

# MOJAVE BASIN AREA WATERMASTER

FOR  
CITY OF BARSTOW, ET AL, VS. CITY OF ADELANTO, ET AL,  
CASE NO. 208568 - RIVERSIDE COUNTY SUPERIOR COURT

May 1, 2019

**TO: Clerk of the Superior Court  
of Riverside County, California**

**RE: Watermaster Annual Report for Water Year 2017-18**

Pursuant to Judgment After Trial in the case of City of Barstow, et al., vs. City of Adelanto, et al., Case No. 208568 entered January 10, 1996, submitted herewith is the Twenty-fourth Annual Report of the Mojave Basin Area Watermaster, dated May 1, 2019, setting forth the activities and determinations of the Watermaster for Water Year 2017-18.

Respectfully submitted,

MOJAVE BASIN AREA WATERMASTER

By: *V. Wiegstein*  
Valerie L. Wiegstein  
Watermaster Services Manager

**WATERMASTER:**

Thurston Smith, Chairman  
Jim Ventura, Vice Chairman  
Carl Coleman  
Kimberly Cox  
Richard D. Hall  
Beverly J. Lowry  
Mike Page

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Tom McCarthy, Executive Officer  
Joanne James, Secretary  
Kathy Cortner, Treasurer  
William J. Brunick, Attorney  
Robert C. Wagner, Engineer

**TWENTY-FIFTH ANNUAL REPORT**

**OF THE**

**MOJAVE BASIN AREA WATERMASTER**

**WATER YEAR 2017-18**

CITY OF BARSTOW, ET AL, VS. CITY OF ADELANTO, ET AL,  
CASE NO. 208568 -- RIVERSIDE COUNTY SUPERIOR COURT

**MAY 1, 2019**

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MOJAVE BASIN AREA WATERMASTER  
FOR WATER YEAR 2017-18**

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## **CHAPTER 1**

### **INTRODUCTION**

This is the Twenty-fifth Annual Report of the Mojave Basin Area Watermaster to the Riverside County Superior Court pursuant to the Stipulated Judgment in City of Barstow, et al., vs. City of Adelanto, et al. and related cross-complaints, which were consolidated into Case No. 208568. The Stipulated Judgment addresses water supply shortages in the Mojave Basin Area through the creation of a Physical Solution based upon the allocation of responsibility for correction of annual overdraft and for maintaining historical average annual flows between Subareas.

The Stipulated Judgment requires the Watermaster to file an annual report with the Court by May 1 of each year. The required contents of the annual report are set forth in Section V (B), Paragraph 24 (k) of the Judgment.

#### **Scope of Report**

This Report summarizes most of the information required by the Stipulated Judgment and includes a summary of the Watermaster activities and water supply conditions for Water Year 2017-18. Appendix L to this report consists of a detailed accounting of surface water and groundwater production for Water Year 2017-18. Also included in Appendix L is a list of Base Annual Production (“BAP”) transfers and changes in ownership. Following is a list of the specific items required by the Judgment and where they may be found in the Report.

- a. Fiscal Report: Chapter 6
- b. Review of Watermaster Activities: Chapter 2
- c. Replacement and Makeup Obligations: Chapter 4 and Appendix B
- d. Hydrologic Data: Chapter 3
- e. Purchase of Supplemental Water: Chapter 6
- f. Recharge with Supplemental Water: Chapter 4
- g. Notice List: Appendix J
- h. Rules and Regulations Adopted: Chapter 2
- i. Proposed Administrative Budget for 2019-20: Chapter 6
- j. Transfers of Base Annual Production Rights: Appendix E, K & L (Table 8)

- k. Transfers of Free Production Allowance during 2017-18: Appendix E
- l. Proposed Free Production Allowances for Subareas: Chapter 5 and Appendix H
- m. Summary of Water Production: Appendix B and Appendix L (Tables 1-7)
- n. Replacement Water Assessments: Appendix B
- o. Makeup Water Assessments: Appendix B
- p. Proposed Administrative and Biological Assessment Rates for 2019-20: Chapter 6
- q. Projected Replacement and Makeup Water Assessment Rates for 2018-19 and 2019-20: Chapter 6
- r. Status of Subarea Obligations: Chapter 4
- s. Biological Trust Fund Financial Report: Chapter 6
- t. Auditor's Report: Appendix G

### **History of Litigation**

**Complaint.** The original complaint was filed by the City of Barstow and Southern California Water Company in San Bernardino County Superior Court on May 30, 1990 and was transferred to Riverside County Superior Court on November 27, 1990. The complaint alleged that the cumulative water production upstream of the City of Barstow has overdrafted the Mojave River system and requested an average annual flow of 30,000 acre-feet of surface water to the City of Barstow area. The complaint also included a request for a writ of mandate to require the Mojave Water Agency ("MWA") to act pursuant to its statutory authority to obtain and provide supplemental water for use within the Mojave Basin Area.

**MWA Cross-Complaint.** On July 26, 1991, the MWA filed its first amended cross-complaint in the case, naming substantially all Producers of water within the Mojave Basin Area, including Parties downstream of the City of Barstow. The MWA cross-complaint requested a declaration that the available native water supply to the Mojave Basin Area is inadequate to meet the demands of the combined Parties and requested a determination of all of the water production of whatever nature within the Mojave Basin Area.

**Arc Las Flores Cross-Complaint.** On July 3, 1991, Arc Las Flores (Rancho Las Flores Ltd. Partnership) filed a cross-complaint asking that the appropriative, overlying and riparian rights of Arc Las Flores be determined to be prior and paramount to any rights of the Plaintiffs and other appropriators.

**Negotiations, Trial and Judgment.** Because of the magnitude and complexity of the case, numerous parties agreed to conduct good faith negotiations, beginning in early 1992, with the objective of devising an equitable solution to the Basin Area's water supply problems and avoiding extensive and expensive litigation. In the ensuing months a committee of attorneys, engineers and other individuals that were generally representative of all types of producers and all Subareas of the Basin Area conducted intense negotiations that resulted in a proposed Stipulated Judgment. The proposal created a class of Minimal Producers (that is, Producers using ten acre-feet of water per year or less) who were dismissed from the case. The proposal also directed the MWA to create an administrative procedure, acceptable to the Court, by which Minimal Producers could participate fairly in the Physical Solution.

Over 75 percent of the parties agreed to the Stipulated Judgment which was entered by the Court on September 22, 1993, binding all stipulating parties. After entry of the Stipulated Judgment, additional parties agreed to its terms. These parties represented over 80 percent of the verified water production in the Basin. A trial of the claims of the non-stipulating parties began on February 6, 1995 and was completed on March 21, 1995. Final Judgment was entered on January 10, 1996 adopting the physical solution set forth in the Stipulated Judgment.

**Fourth District Court of Appeal and California Supreme Court Review.** Nine non-stipulating parties referred to as the "Cardozo Group" chose to appeal the Judgment entered by the Superior Court. The Appellate Court issued a Tentative Opinion in April 1998 and received oral argument from both the stipulating and non-stipulating parties in May 1998. The Appellate Court issued its final opinion on June 1, 1998. The final opinion affirmed in part and reversed in part the Superior Court Judgment by excluding specific non-stipulating parties (the Cardozo Group) from the Superior Court Judgment and at the same time affirming it as to the stipulating parties. The decision also remanded the issue of the amount of transferable production rights for Jess Ranch Water Company back to the Superior Court for a new determination.

The MWA board voted in June 1998 to seek California Supreme Court Review of the Appellate Court's decision. A petition for review was filed with the Supreme Court in July 1998 and the Supreme Court granted review of the case on August 26, 1998. Oral Arguments were heard by the Supreme Court on June 5, 2000 and its opinion was issued on August 21, 2000. The Supreme Court's opinion affirmed in part and reversed in part the June 1, 1998 opinion of the Fourth District Court of Appeal. The Supreme Court affirmed the Court of Appeal's decision "in

all respects,” except it reversed the Court of Appeal decision as to the Jess Ranch Water Company.

The Court of Appeal had affirmed the Judgment as to the stipulating parties but had reversed it as to the Cardozo Appellants and as to Jess Ranch Water Company. The Court of Appeal opinion essentially excluded the Cardozo Appellants from the Stipulated Judgment, including the Judgment’s assessment provisions. Further, the Court of Appeal granted Judgment to the Cardozo Appellants in the form of injunctive relief to protect their riparian and overlying water rights to the current and prospective reasonable and beneficial need for water on their respective properties.

**Final Resolution of Cardozo Group and Jess Ranch Water Company Appellants.** Effective August 6, 2002 the Cardozo appellants and MWA, on behalf of the stipulating parties, reached agreement regarding the Cardozo appellants’ water rights. Consistent with the ruling from the California Supreme Court in this case, Cardozo Group’s right to pump water from the ground underneath their respective lands for the current and prospective reasonable and beneficial need for water on their respective properties was recognized by the Stipulating parties. Further, to settle all outstanding issues in connection with the Cardozo Group water rights, MWA and Cardozo agreed that “if the parties who stipulated to the Judgment are in full compliance with the Judgment there shall be a rebuttable presumption that the Cardozo Appellants’ water rights are not being interfered with.”

In addition, all remaining water rights issues related to Jess Ranch Water Company and the Stipulating Parties were settled on August 16, 2002. Stipulation for Intervention and Entry of Judgment for Jess Ranch Water Company was filed in Riverside County Superior Court on August 23, 2002.

### **Summary of the Judgment**

For purposes of defining and implementing a physical solution, the Basin is considered to consist of five distinct but hydrologically interrelated “Subareas.” Each Subarea was found to be in overdraft to some extent due to the use of water by all of the producers in that Subarea. In addition, historically some Subareas were found to have received at least a part of their natural water supply from water flowing to them from upstream Subareas either on the surface or as subsurface flow. To maintain that historical relationship, the average annual obligation of any Subarea to another is set equal to the estimated average annual natural flow (excluding storm flow)

between the Subareas over the 60-year period 1930-31 through 1989-90. If the Subarea obligation is not met, Producers of water that does not bear a replacement obligation in the upstream Subarea must provide makeup water.

To maintain proper water balances within each Subarea, the Judgment establishes a decreasing Free Production Allowance (“FPA”) in each Subarea during the first five years and provides for the Court to review and adjust, as appropriate, the FPA for each Subarea annually thereafter. The FPA is allocated among the Producers in the Subarea based on each Producer’s percentage share of the FPA. All water produced in excess of any Producer’s share of the FPA must be replaced by the Producer, normally by payment to the Watermaster of funds sufficient to purchase Replacement Water.

Each Producer’s percentage share of FPA in a Subarea was determined by first verifying the maximum annual production (called BAP) for each Producer during the five year, 1986-90, Base Period and then calculating each Producer’s percentage share of the total of all of such BAP in the Subarea. All such percentage allocations are of equal priority.

Producers in each Subarea are allowed to produce as much water as they need annually to meet their requirements, subject only to compliance with the Physical Solution set forth in the Judgment. An underlying assumption of the Judgment is that sufficient water will be made available to meet the needs of the Basin in the future from a combination of natural supply, imported water, water conservation, water reuse and transfers of FPA among parties.

Special provisions for environmental protection are included in the Judgment, including the creation of a Biological Resources Trust Fund.

MWA was appointed as the initial Watermaster by the Court to administer the Judgment and the Physical Solution set forth therein.

### **The Physical Solution**

**Replacement Water: Keeping Subareas in Balance.** The amount of water that may be produced in a Subarea in any year by a Producer free of any replacement obligation is that Producer's share of the Subarea's FPA. During the first five years that the Judgment is in effect each Producer's share of the FPA in each of the five Subareas, expressed as a percentage of that Producer's BAP is as follows:

Water Year 1993-94	-	100 %
Water Year 1994-95	-	95 %
Water Year 1995-96	-	90 %
Water Year 1996-97	-	85 %
Water Year 1997-98	-	80 %

Before the end of the fifth year and each year thereafter, the Watermaster must analyze conditions in each Subarea and recommend to the Court any increase or further reduction in FPA. The Judgment specifies factors that must be taken into consideration by the Watermaster in the development of an FPA adjustment recommendation. Beginning with the sixth year and each year thereafter, the FPA established by the Court for each Subarea will be allocated to Producers in the ratio of their respective share of the BAP in the Subarea.

Any Producer who produces in any year an amount of water in excess of that Producer's share of the FPA for a Subarea must pay the Watermaster a Replacement Water Assessment. The Watermaster then assumes responsibility for replacing such excess production. The Replacement Water Assessment for a Producer will be equal to the number of acre-feet of excess production by that Producer multiplied by the Replacement Water Assessment Rate per acre-foot as adopted annually by the Watermaster. It is the Watermaster's responsibility to acquire Replacement Water.

**Makeup Water: Meeting Subarea Obligations.** Both average and minimum annual flows must be maintained between adjoining Subareas. Each year an accounting will be made of the amount of such flows. Whenever the amount is less than the minimum amount required by the Judgment the Producers in the upstream Subarea must pay the Watermaster for Makeup Water to be delivered to the downstream Subarea.

If the actual flow in a year is more or less than the average Subarea Obligation then the upstream Subarea may receive a “credit” or “debit” that can offset any future deficiencies or surpluses.

The cost of Makeup Water will be recovered from Producers within the Subarea incurring the Makeup Obligation through a Makeup Water Assessment. Such assessment will be pro-rated among all production that does not bear a Replacement Obligation. It is the Watermaster’s responsibility to acquire Makeup Water.

**Administrative Assessment: Paying the Cost to Administer the Judgment.** Costs of monitoring flows, verifying annual production, collecting assessments, preparing an annual report to the Court and other such costs will be recovered through a uniform Administrative Assessment against all production within the Basin Area. The Administrative Assessment will be payable quarterly when quarterly production reports are filed.

**Transfers: Buying, Selling or Leasing BAP or FPA.** The Judgment provides a framework for BAP or FPA to be bought, sold or leased within Subareas and between Subareas. For instance, a party who was allocated one percent of the FPA in a Subarea could lease that allocation to a second party in a private transaction. The second party could then produce additional water free of a Replacement Obligation.

The Judgment sets forth some rules governing transfers. The rules are designed to assure that the total consumptive use within a Subarea does not increase as a result of any transfer.

**Biological Resource Mitigation: Protecting Species and Habitat.** The Judgment contains unique provisions for assuring that the water needs of endangered and other species and of riparian habitat in the Mojave Basin Area are protected. Groundwater level standards are set in several key areas along the River. The Judgment must be administered in certain respects with the intent to meet the standards.

In the event standards are not met, a trust fund is established by the Judgment to provide money to buy water, construct wells or other projects proposed by the California Department of Fish and Wildlife (“DFW”). The trust fund, which is capped initially at \$1,000,000.00 (in 1993 dollars), will be financed by an escalating per acre-foot assessment on production beginning at \$0.50.

**Producer Responsibilities: Reporting and Assessments.** Each Producer is responsible for reporting accurately the amount of water produced and for paying all applicable assessments promptly. Any transfer of BAP or FPA or change in purpose of use must also be reported.

**Subarea Advisory Committees.** The Producers in each Subarea have elected a committee to advise the Watermaster on the administration of the Judgment. The California Department of Fish and Wildlife is an ex-officio member of the Subarea Advisory Committees for the Alto and Baja Subareas.

**Watermaster: Administering the Judgment for the Court.** MWA was appointed the Watermaster initially. MWA or any subsequent appointee can be removed by the Court for failure to administer the Judgment properly and fairly.

The Watermaster is responsible for monitoring flows, verifying water production, reporting to the Court, collecting assessments and conducting studies.

The Watermaster must comply with the Brown Act regarding notices and meetings and with the Public Records Act regarding access to data and records.



## **CHAPTER 2**

### **SUMMARY OF WATERMASTER ACTIVITIES**

During Water Year 2017-18, the Mojave Basin Area Watermaster consisted of Carl Coleman, Kimberly Cox, Richard Hall, Beverly J. Lowry, Mike Page, Thurston Smith and Jim Ventura. Thurston Smith and Jim Ventura served as Chairman and Vice Chairman respectively. Tom McCarthy served as Executive Officer, Joanne James as Secretary and Kathy Cortner as Treasurer.

The first Watermaster meeting of the 2017-18 Water Year was held on October 25, 2017 and six additional meetings were held throughout the year. Copies of the minutes of the meetings as well as other official records are maintained and available at the office of the Watermaster, which is located at 13846 Conference Center Drive, Apple Valley, CA 92307.

As required by the Judgment, the Watermaster prepared the Twenty-fourth Annual Report of the Mojave Basin Area Watermaster for Water Year 2016-17, which was published under the date May 1, 2018.

Watermaster adopted recommendations for FPA for Water Year 2018-19 as indicated in Watermaster's Twenty-fourth Annual Report to the Court. The Court subsequently adopted Watermaster's recommendation.

Actions taken by the Watermaster during the year included acceptance of the Report on Audit for Fiscal Year 2016-17, approval of the Administrative Budget for Water Year 2018-19, and approval of Replacement, Makeup, Administrative and Biological Assessment Rates for Water Year 2018-19. The Administrative Budget and Assessment Rates for 2018-19 were adopted and are summarized on Table 2-1.

### **Transfers**

There were 203 transfers of FPA and Carryover FPA during the year. These transfers are reported in Appendix E. There were 17 transfers of BAP. Transfers of BAP are reported in Appendix E, K & L (Table 8). Any additional transfers of unused 2017-18 FPA that may take place prior to June 1, 2019 will be reported in Appendix E of the Watermaster's Annual Report for 2018-19.

### **Rules and Regulations**

The Rules and Regulations that were adopted by Watermaster June 30, 1994 and revised December 11, 1996, March 23, 2005 and October 29, 2008 remain in effect.

### **Biological Resources Trust Fund**

The Biological Resources Assessment Rate for 2017-18 was \$0.91 per acre-foot. Expenditures from the Biological Resources Trust Fund during the year for DFW projects totaled \$52,788.64. The Biological Resources Assessment Rate for 2018-19 was increased to \$0.94 per acre-foot.

### **Storage Agreements**

A Storage Agreement between Watermaster and MWA covering each Subarea was approved during the 1994-95 Water Year. In September 2016 an amendment and a 20 year extension to 2036 was approved by Watermaster, per the terms of the agreement. In October 2018, an amendment was approved by Watermaster to increase the storage limit for Baja from 23,000 acre-feet to 50,000 acre-feet.

Watermaster entered into a storage agreement with Victorville Water District (formerly VVWD) in June 2002. Per the terms of the agreement, an extension to June 30, 2022 was approved by Watermaster. Another Storage Agreement was entered into with Victorville Water District under different terms in July 2016 for a period of two years. This agreement was extended by Watermaster for an additional 10 years in Oct 2018. The status of each storage account is reported in Appendix F.

**TABLE 2-1**

**MOJAVE BASIN AREA WATERMASTER  
ADMINISTRATIVE BUDGET AND ASSESSMENT RATES  
FOR WATER YEAR 2018-19**

**ADMINISTRATIVE BUDGET**

1.	Administrative Services	\$ 341,300.00
2.	Engineering Services	\$ 93,500.00
3.	Legal Services	\$ 60,000.00
4.	Audit Services	\$ 5,000.00
<b>Total Estimated Budget</b>		<b>\$ <u>499,800.00</u></b>

**ASSESSMENT RATES**

1. Administrative  
\$3.55/acre-foot of Production
2. Biological  
\$ 0.94/acre-foot of Production
3. Replacement and Makeup Water  
2017-18 \$578.00 /acre-foot<sup>1</sup>  
(6/1/19 Invoice Date)  
2018-19 “*Not to exceed*” \$636.00 /acre-foot<sup>2</sup>  
(6/1/20 Invoice Date)

<sup>1.</sup> The rate adopted for Water Year 2017-18 was adopted by the Mojave Water Agency on February 14, 2019 pursuant to Resolution No. 1062-19 in accordance with the changes to the Watermaster Rules and Regulations adopted October 29, 2008.

<sup>2.</sup> This rate is for obligations incurred in the 2018-19 Water Year which will be billed in June 2020. The fixed rate that will be used for invoicing will be determined by the Mojave Water Agency in February 2020.

## **Subarea Advisory Committees**

The Judgment requires that every third year the Subarea Advisory Committees elect new members. Each Subarea Advisory Committee consists of five members elected by the producers, with the California Department of Fish and Wildlife acting as an ex-officio member on the Alto and Baja Committees. Nominations, voting and tabulation of results were conducted by Watermaster during January, February and March 2018.

The Subarea Advisory Committees during the 2017-18 Water Year were made up as follows:

### **ALTO SUBAREA**

City of Victorville\*  
Steve Samaras  
San Bernardino County Service Areas  
Craig Carlson  
Helendale Community Services District  
Tina Souza  
Hesperia Water District  
Bobby Boytor  
Mojave Resource Management LLC  
California Department of Fish & Game \*\*

### **BAJA SUBAREA**

Annette (Netta) DeJong  
Ellen Johnson\*  
Calico Lakes Home Owners Association  
Jeff Gaastra  
Newberry Springs Recreational Lake  
Association  
Lee Hiett  
Daggett Community Services District  
California Department of Fish & Game \*\*

### **CENTRO SUBAREA**

Dale Ruisch  
Golden State Water Company\*  
Eldert Van Dam  
City of Victorville  
Bobby Boytor  
Mojave Resource Management LLC

### **ESTE SUBAREA**

Chuck Bell\*  
Golden State Water Company  
James Pettigrew  
David Rib  
Mitsubishi Cement Corporation  
Richard Selby

### **OESTE SUBAREA**

Kent T. Christensen  
Aerochem, Inc.  
**--Vacant Seat--**  
**--Vacant Seat--**  
**--Vacant Seat--**  
**--Vacant Seat--**

\* Chairperson  
\*\* Ex-officio Member

### **Water Production and Verification**

In order to document water usage and to determine each Producer's Replacement Water and Makeup Water Obligations, the Judgment provides for the collection, analysis and verification of annual water production by Producers within each of the five Subareas beginning with Water Year 1993-94. All Producers are required to file quarterly statements (or as otherwise specified in the Rules and Regulations) of production. Verification of production for Water Year 2017-18 was conducted by the Watermaster staff and included verification of all parties to the Judgment. The verified production of all parties for Water Year 2017-18 is assembled and presented in Appendix B and Appendix L (Tables 1-7).

The Watermaster obtained protective orders from the Court in 1992 and 2005 for access and use of annual electrical data from the local service provider Southern California Edison Company (SCE). This data is essential for the verification of water production of parties within the Mojave Basin Area. Pursuant to the protective order, all data is confidential and can only be used by Watermaster for the purpose of calculating water production. This data may not be disseminated to the public in any way. All parties are notified of the release of this information at least 30 days ahead of time and have the option to decline the release of this data. An indemnity clause within the order protects SCE from any potential complaint.

Section 11 of the Rules and Regulations sets forth the criteria for monitoring production. The Watermaster informed Producers of their responsibility to measure production in accordance with the terms of the Judgment and the Rules and Regulations by letter on July 2, 2018. Watermaster will continue its efforts to obtain voluntary compliance with the Rules and Regulations from each Producer.

### **Streamflow, Precipitation and Other Data**

Various data, including streamflow and precipitation data, are needed to estimate the natural water supplies accruing to each Subarea and to calculate compliance with certain Subarea obligations. Streamflow data required by the Watermaster was furnished by the U.S. Geological Survey ("USGS"). The MWA, under a Cooperative Agreement with the USGS, currently funds 50 percent of the stream gage operation and maintenance at the Deep Creek, Lower Narrows, Barstow and Afton stations. The U.S. Army Corps of Engineers ("ACOE") funds the West Fork Mojave River gage. Beginning with the 1993-94 Water Year, the frequency of direct

measurements at the Lower Narrows was increased from once to twice monthly in order to improve the record. The measurements were subsequently increased from twice monthly to weekly during the 1995-96 Water Year, a practice which continued through the 2017-18 Water Year.

The USGS conducted a review of its measurement procedures and statistical data analysis procedures for the Lower Narrows gage in 1998 and reported that the “published stream flow records represent the best determinations of flow possible given the primary data collected in support of the stream flow gaging stations”. The USGS concluded by saying that it is confident that its flow measurement and computation techniques will be found adequate and stream flow records validated.

Records of the discharge of reclaimed wastewater to the Mojave River downstream from the Lower Narrows gage were furnished by the Victor Valley Wastewater Reclamation Authority (“VWVRA”) and the City of Victorville, Public Works Department (Victorville). These discharge records are used to determine the contribution of the combined VWVRA and Victorville discharge to the Alto Subarea’s annual flow obligation to the Centro Subarea.

Precipitation data utilized by Watermaster is compiled from records obtained from the National Oceanographic and Atmospheric Administration (“NOAA”) for Victorville and Barstow precipitation stations and for Lake Arrowhead from the San Bernardino County, Department of Public Works precipitation Station #5140 (Lake Arrowhead Fire Station #1).

### **Related MWA Activities**

In July 2011, MWA entered into an agreement to amend and extend the 2003 water storage program with the Metropolitan Water District of Southern California (MWDSC). The amended agreement allows up to 390,000 acre-feet of MWDSC entitlement water from the State Water Project (SWP) to be stored in the Mojave Basin. MWDSC has until December 31, 2035 to take return delivery of the water, through exchange of MWA entitlement from the SWP for delivery to MWDSC. Roughly 60,000 acre-feet was delivered and stored within the Mojave Basin under the amended storage agreement and will be eventually returned via entitlement exchange to MWDSC. MWA has returned 41,200 acre-feet to MWDSC. This program provides a benefit to the region by recharging groundwater basins at a relatively low cost to MWA using SWP water from MWDSC’s entitlement, and allowing the water to be returned to MWDSC via MWA’s unused SWP entitlement at no cost to MWA.

The Oro Grande Wash Recharge Project will recharge up to 8,000 acre-feet per year to support groundwater pumping in the western part of the Alto Subarea. The recharge basins will be constructed by the County of San Bernardino as part of a dual-purpose recharge/flood control detention basin. Design and construction of the recharge/flood control basin began in late 2012 and is expected to be completed in 2019. MWA has also completed preliminary design reports for future dual purpose recharge/flood control basins in Antelope Wash and Bandicoot Wash in the southern Alto region. MWA purchased land in the upper Mojave River area and about 40 acres is available for off-river recharge starting in 2018. The Helendale Bluffs pressure reducing valve station along the Mojave River pipeline was retrofit to provide for recharge into the Alto Transition Zone. Environmental work has been completed to build a groundwater recharge facility in the Este Subarea. Construction of the facility is preliminarily scheduled to begin in the Fall of 2019.

Geotechnical and geohydrology investigations in the upper Alto, Oeste and western Este Subareas continued that will provide better information and data to use in determining the best locations for future off-river recharge basins. Two monitoring wells will be installed in the west Victorville area to help characterize the subsurface geology and provide permanent high quality groundwater monitoring data points. The Agency's groundwater model for the upper Mojave River Basin will be also be updated as part of the ongoing investigations.

The Regional, Recharge and Recovery Project (R<sup>3</sup>) was constructed by MWA as a basin management tool that could be used to help manage where water is recharged and pumped in the Alto Subarea in order to help alleviate basin pumping stresses. MWA maintains three Mojave River recharge sites in the upper Alto Subarea, all upstream of the six R<sup>3</sup> Wells that were constructed for the project. Water from the R<sup>3</sup> project is pumped on behalf of a stipulating party, as requested, and is subject to the same rules and assessments under the Judgment. Watermaster reports the amount of R<sup>3</sup> water delivered to specific stipulating parties in Appendix B. The total amount of deliveries for the 2017-18 Water Year was 4,655 acre-feet. Operational water associated with this project is the responsibility of MWA and is also shown on Appendix B.

In September 2018, the MWA initiated the purchase of 2,100 acre-feet (\$500,000) of imported State Water Project water for delivery to the Baja Subarea in an effort to address ongoing overdraft conditions.

The MWA completed a technical study for the Mojave Basin Area to estimate the groundwater production of minimal producers by using aerial photography, sophisticated land use software and local control groups. The data was used to better understand the amount of minimal

producer production and to develop a system to account for future minimal producer water use. The estimate of water use by minimal pumpers as of 2011 is substantially less than the amount estimated at the time of trial in 1995. Consequently, the amount of pumping attributed to minimal producers cannot affect a given Party's Base Annual Production Right relative to the Judgment. MWA will continue to evaluate and update estimated water use by the minimal producers during 2018-19.

The MWA entered into a Memorandum of Understanding with the Mojave Desert Resource Conservation District (MDRCD) for the removal of invasive, non-native plants along the Mojave River riparian corridor. The invasive plants, primarily tamarisk, displace native riparian plants species, increase the risk for flooding and fire hazard and use disproportionate quantities of groundwater within the Mojave River floodplain aquifer. Over the last five years, about 10,400 acres have been canvassed for invasive plant species along the Mojave River riparian corridor and approximately 1,780 weed acres have been removed and treated. MWA contributed \$25,000 to the program in 2017-18, and another \$25,000 in 2018-19, which will focus on retreatment and monitoring in the previously treated areas. DFW contributed \$70,000 in 2017-18 and another \$70,000 in 2018-19 to the project for removal and retreatment in the Exhibit H areas identified in the Judgment in the Alto and Baja Subareas.

Launched in 2008, the Cash for Grass program was used by MWA to help achieve a goal of helping local communities meet the state mandated goals of reducing water usage by 20 percent among residential users by the year 2020. Funded with local money and grants from the Department of Water Resources, the program has surpassed its goals resulting in the removal of more than 9 million square feet of residential turf. In 2015, the large-scale Cash for Grass program was initiated and has focused on removal of turf from larger landscape areas such as schools, home owner associations, golf courses and commercial properties. This program has been very successful and has currently removed 2 million square feet of turf and will remove 1 million more by the end of 2019. Ten years ago, per capita water use in the region was 250 gallons a day. Today, that figure has dropped to under 150 gallons per person. The conservation programs instituted have resulted in a reduction of water consumption of more than 30 percent.



## **CHAPTER 3**

### **WATER SUPPLY CONDITIONS**

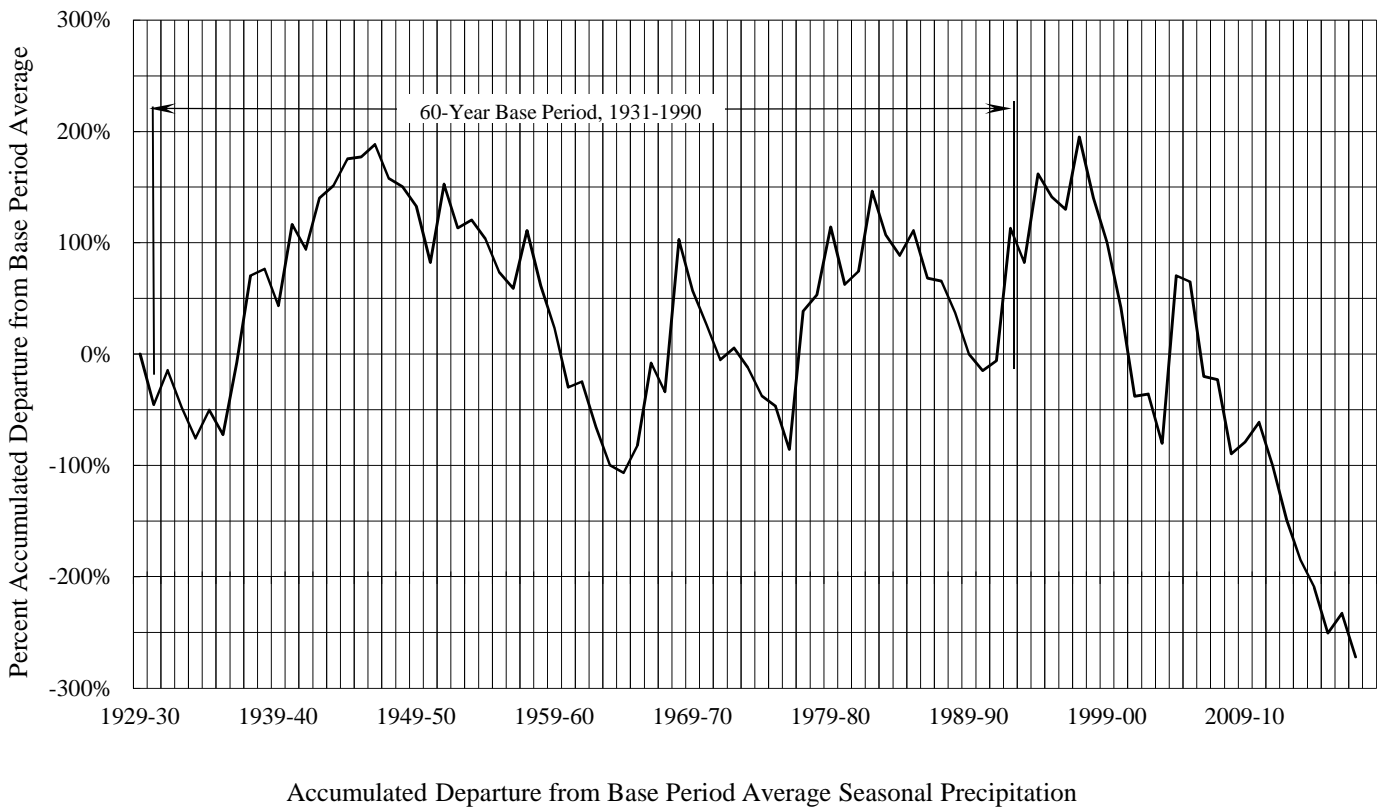
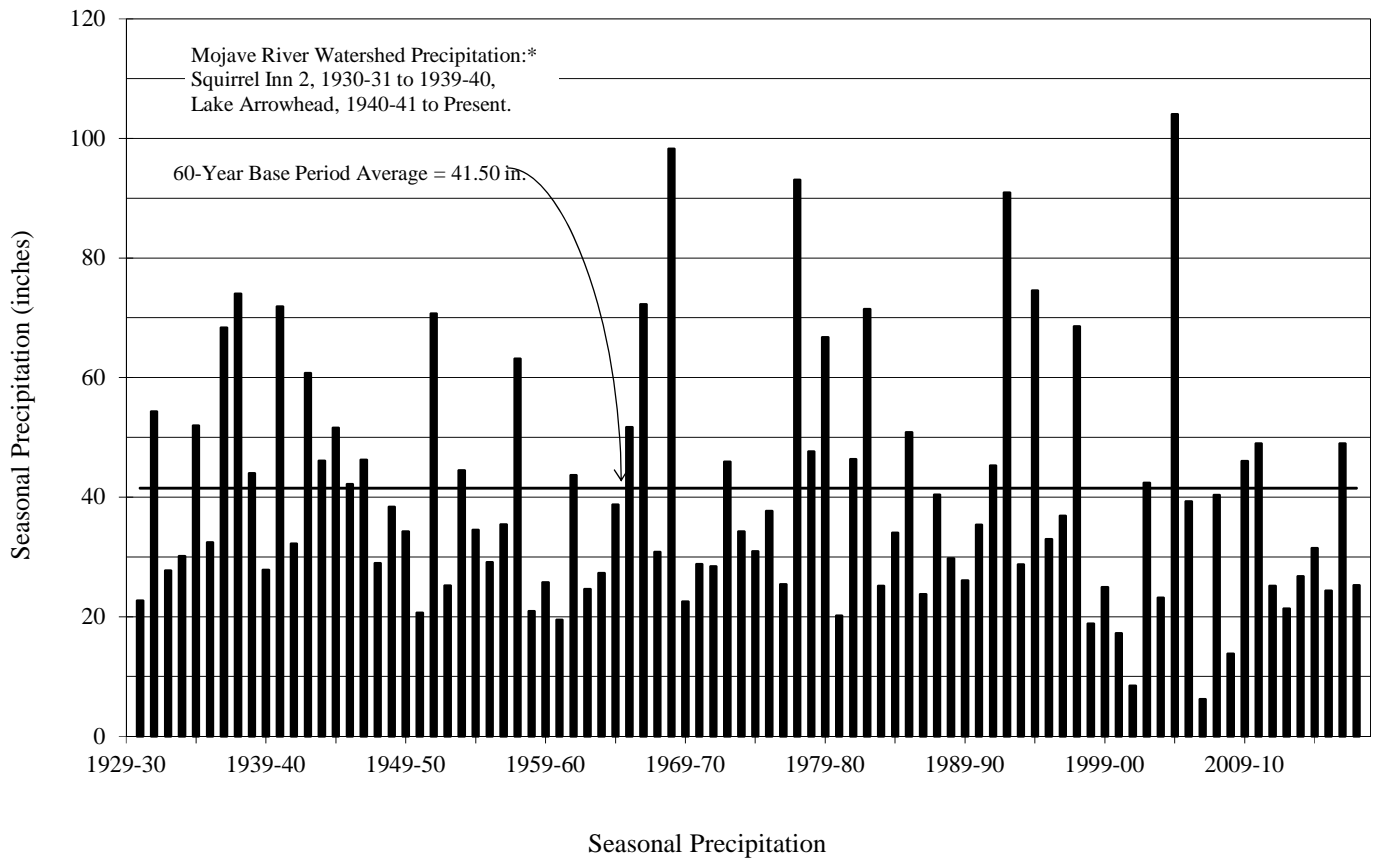
After experiencing above average precipitation during 2016-17, the precipitation in the Mojave River Watershed during 2017-18, as measured at Lake Arrowhead was below average at about 61 percent of the 60 Year Base Period average. The combined flow of the West Fork Mojave River and Deep Creek during the 2017-18 Water Year was about 25 percent of the 60-Year Base Period average.

#### **Precipitation During 2017-18**

Rainfall in the mountain areas is the principal source of natural water supply to the Mojave Basin Area. During the 2017-18 Water Year the precipitation at Lake Arrowhead amounted to 25.2 inches, which is about 61 percent of the Base Period average of 41.5 inches. The maximum monthly rainfall of 10.84 inches occurred in March 2018, with 6.41 inches and 1.85 inches occurring during January 2018 and February 2018, respectively. Figure 3-1 shows the seasonal precipitation from 1930-31 through 2017-18 and the accumulated departure from the 1930-31 through 1989-90 Base Period average. Seasonal rainfall within the Basin Area as measured at Victorville and Barstow totaled 1.64 inches and 2.42 inches, respectively. The amount recorded at Victorville represents approximately 30 percent of the annual average of 5.42 inches and the amount recorded at Barstow represents approximately 53 percent of the annual average of 4.54 inches. Figure 3-2 shows the seasonal precipitation at Victorville and Barstow.

#### **Runoff During 2017-18**

Locations of stream flow gages for the Mojave River system are shown on Appendix A. Table 3-1 shows monthly discharge amounts for 2017-18 at these locations.



Precipitation Characteristics, Mojave River Watershed

FIGURE 3-1

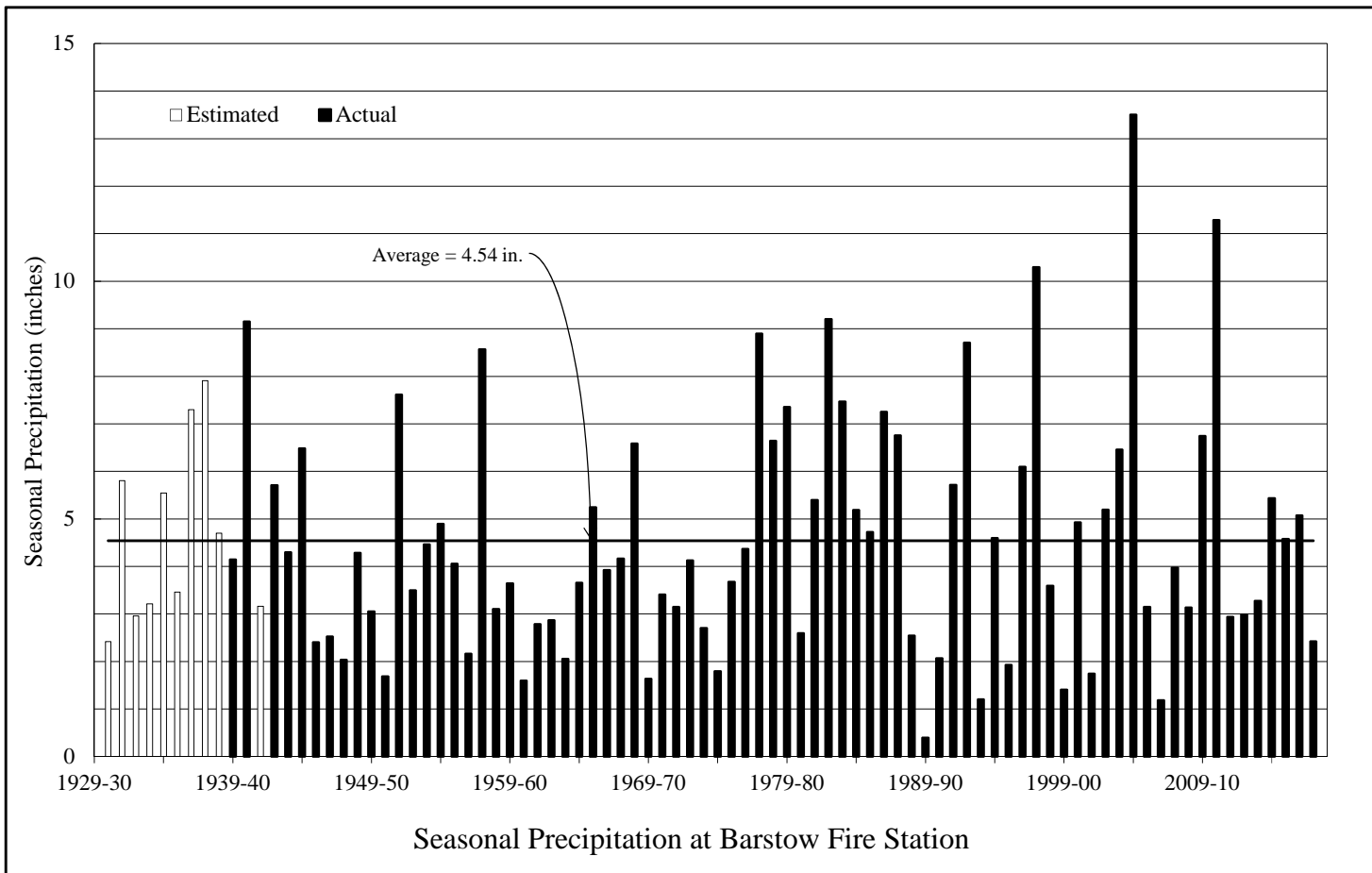
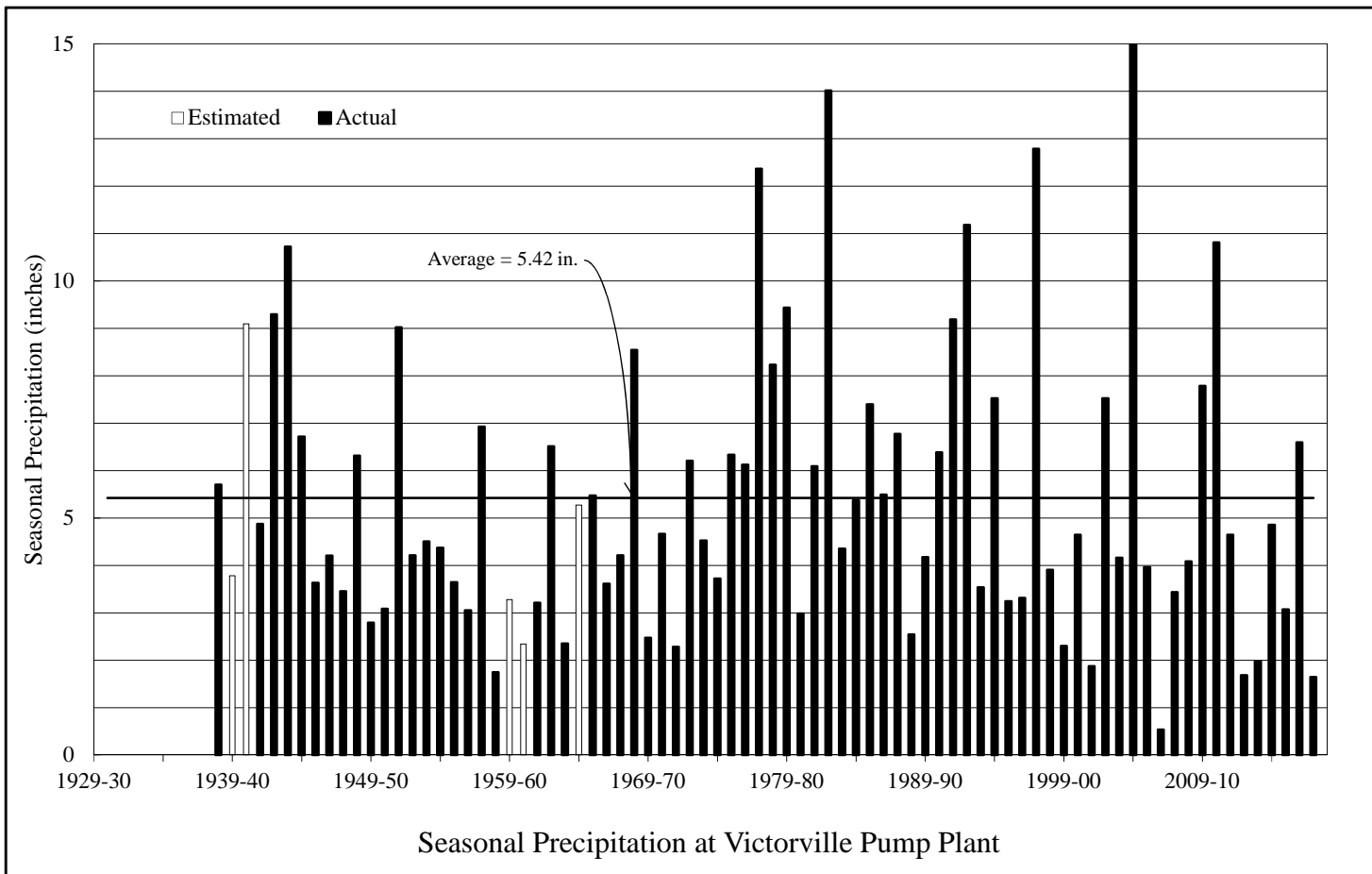


FIGURE 3-2

**TABLE 3-1**  
**MONTHLY DISCHARGE AMOUNTS**  
**FOR WATER YEAR 2017-18**  
**(Acre-Feet)**

<b>Month</b>	<b>Forks <sup>1</sup></b>	<b>Lower Narrows <sup>2</sup></b>			<b>Barstow <sup>3</sup></b>	<b>Afton <sup>4</sup></b>		
	<b>Measured Discharge</b>	<b>Base Flow</b>	<b>Storm Flow</b>	<b>Total</b>	<b>Measured Discharge</b>	<b>Base Flow</b>	<b>Storm Flow</b>	<b>Total</b>
October	5,076.0	108	0	108	0.0	0.00	0.0	0.00
November	4,523.0	270	0	270	0.0	1.71	0.0	1.71
December	247.0	453	0	453	0.0	9.20	0.0	9.20
January	1,378.0	577	30	607	0.0	12.10	9.8	21.90
February	359.0	544	0	544	0.0	9.40	0.0	9.40
March	3,560.0	624	56	680	0.0	18.10	0.0	18.10
April	691.0	447	39	486	0.0	8.40	0.0	8.40
May	330.0	253	0	253	0.0	5.59	0.0	5.59
June	64.9	121	0	121	0.0	0.00	0.0	0.00
July	24.5	73	0	73	0.0	0.00	65.0	65.00
August	19.4	104	0	104	0.0	0.00	57.8	57.80
September	20.9	88	0	88	0.0	0.00	0.0	0.00
<b>Total (AF)</b>	<b>16,293.7</b>	<b>3,662</b>	<b>125</b>	<b>3,787</b>	<b>0</b>	<b>64</b>	<b>133</b>	<b>197</b>

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1 U.S.G.S. Station No. 10260500 Deep Creek near Hesperia, CA combined with  
U.S.G.S. Station No. 10260950 West Fork Mojave River near Hesperia, CA

2 U.S.G.S. Station No. 10261500 Mojave River at Lower Narrows, near Victorville, CA

3 U.S.G.S. Station No. 10262500 Mojave River at Barstow, CA

4 U.S.G.S. Station No. 10263000 Mojave River at Afton, CA

### **At the Forks**

The total surface flow of the Mojave River at the Forks during 2017-18 as measured by the combined discharges of the West Fork Mojave River and Deep Creek was 16,294 acre-feet or about 25 percent of the Base Period average of 65,540 acre-feet. The combined discharges of the West Fork Mojave River and Deep Creek for the period 1930-31 through 2017-18 and the accumulated departure from the Base Period average are shown on Figure 3-3.

### **At Lower Narrows**

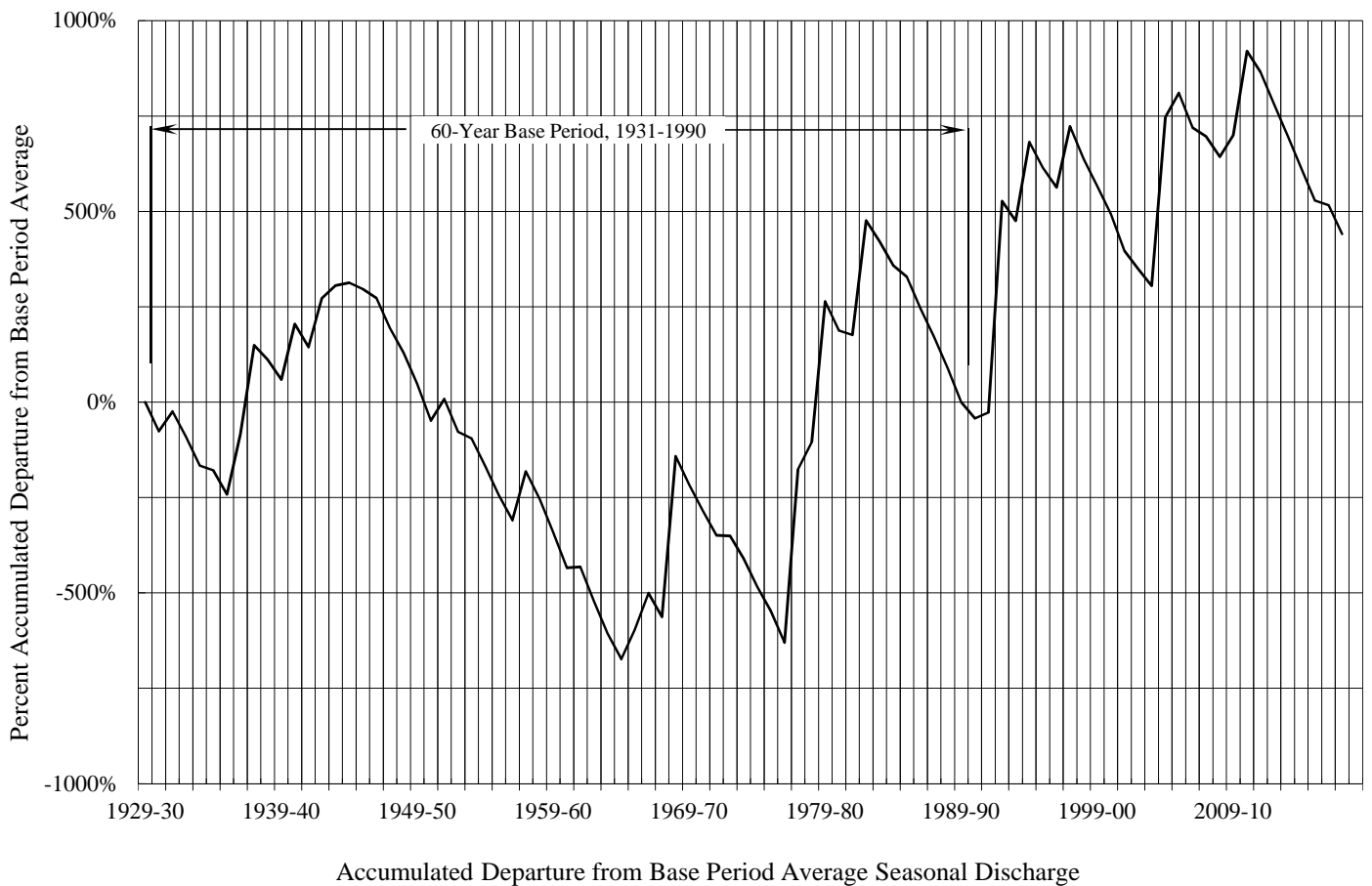
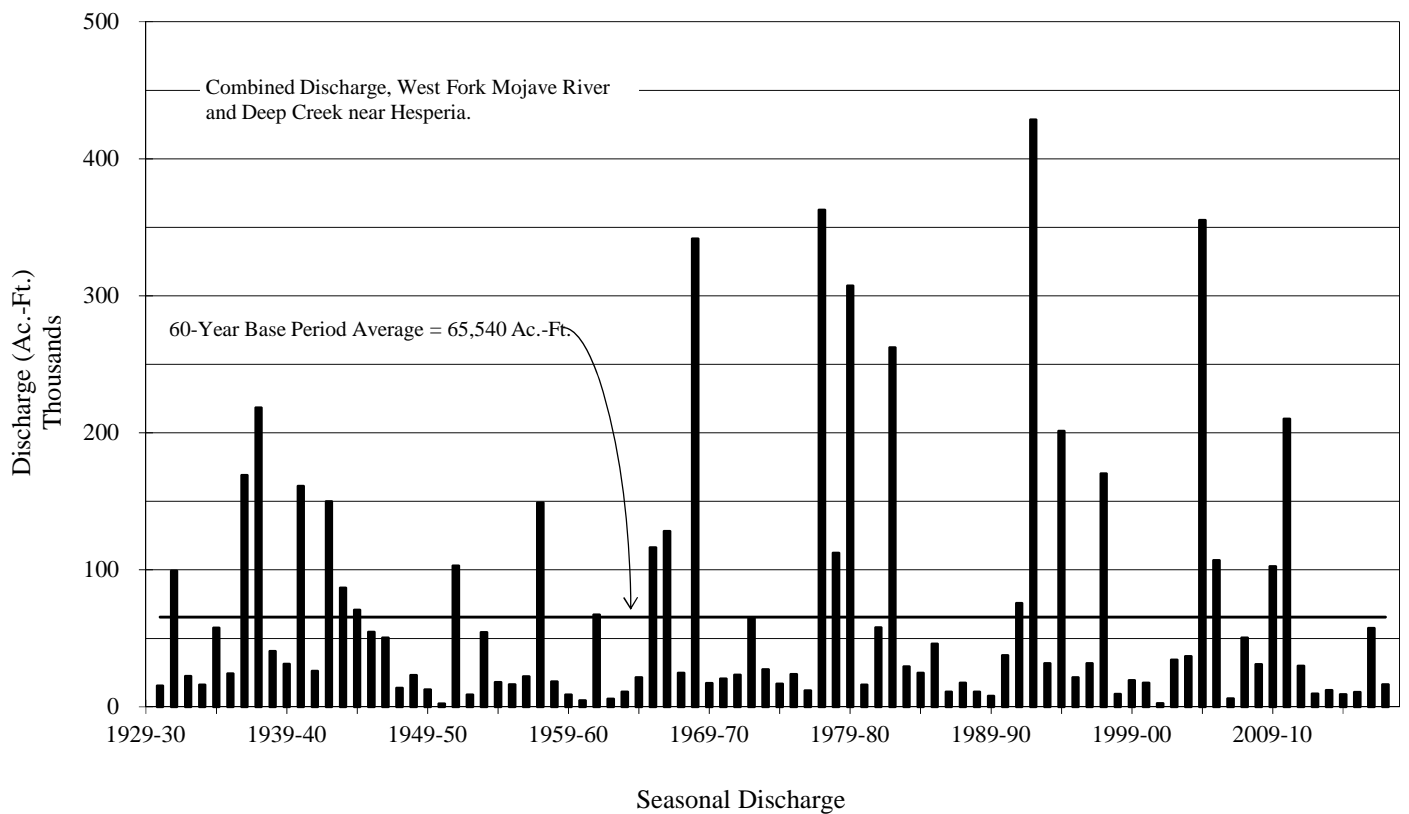
The total surface flow of the Mojave River at the Lower Narrows was 3,787 acre-feet, which is about 7.3 percent of the 60-Year Base Period average of 51,960 acre-feet. During Water Year 2017-18 the total flow accruing to the Lower Narrows Gage was estimated to consist of 125 acre-feet of storm flow and 3,662 acre-feet of base flow. Figure 3-4 shows the storm and base flow components of the total flow in the Mojave River at the Lower Narrows for the period 1930-31 through 2017-18.

### **At Barstow**

The total surface flow of the Mojave River at Barstow was 0 acre-feet. Figure 3-5 shows the total flow in the Mojave River at Barstow for the period 1930-31 through 2017-18.

### **At Afton**

The total surface flow of the Mojave River at Afton was 197 acre-feet, which is about 2.4 percent of the Base Period average of 8,247 acre-feet. During 2017-18 the total flow accruing to the Afton Gage was estimated to consist of 133 acre-feet of storm flow and 64 acre-feet of base flow. Figure 3-5 shows the storm and base flow components of the total flow in the Mojave River at Afton for the period 1930-31 through 2017-18.



Discharge Characteristics, Mojave River at the Forks

FIGURE 3-3

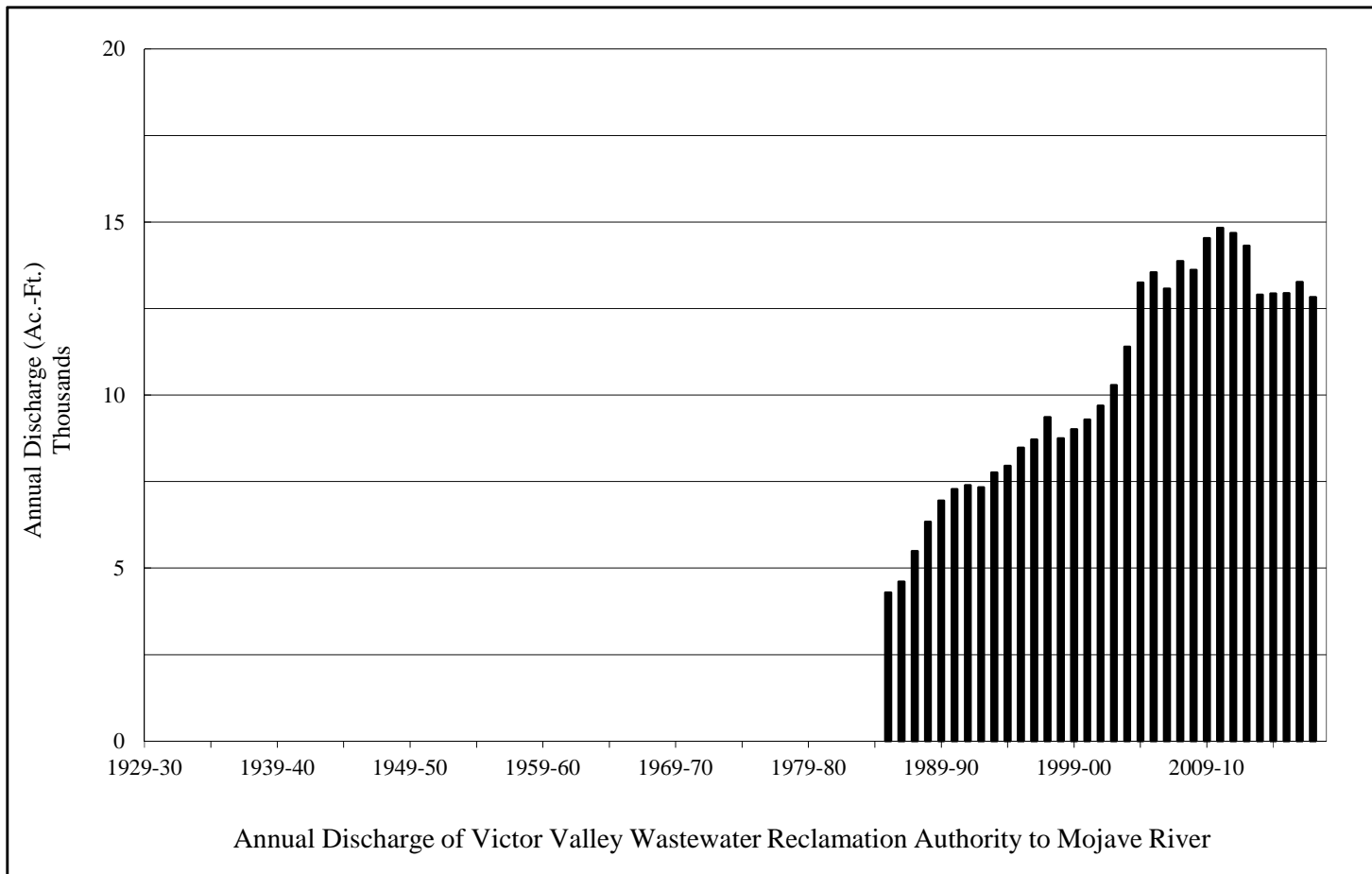
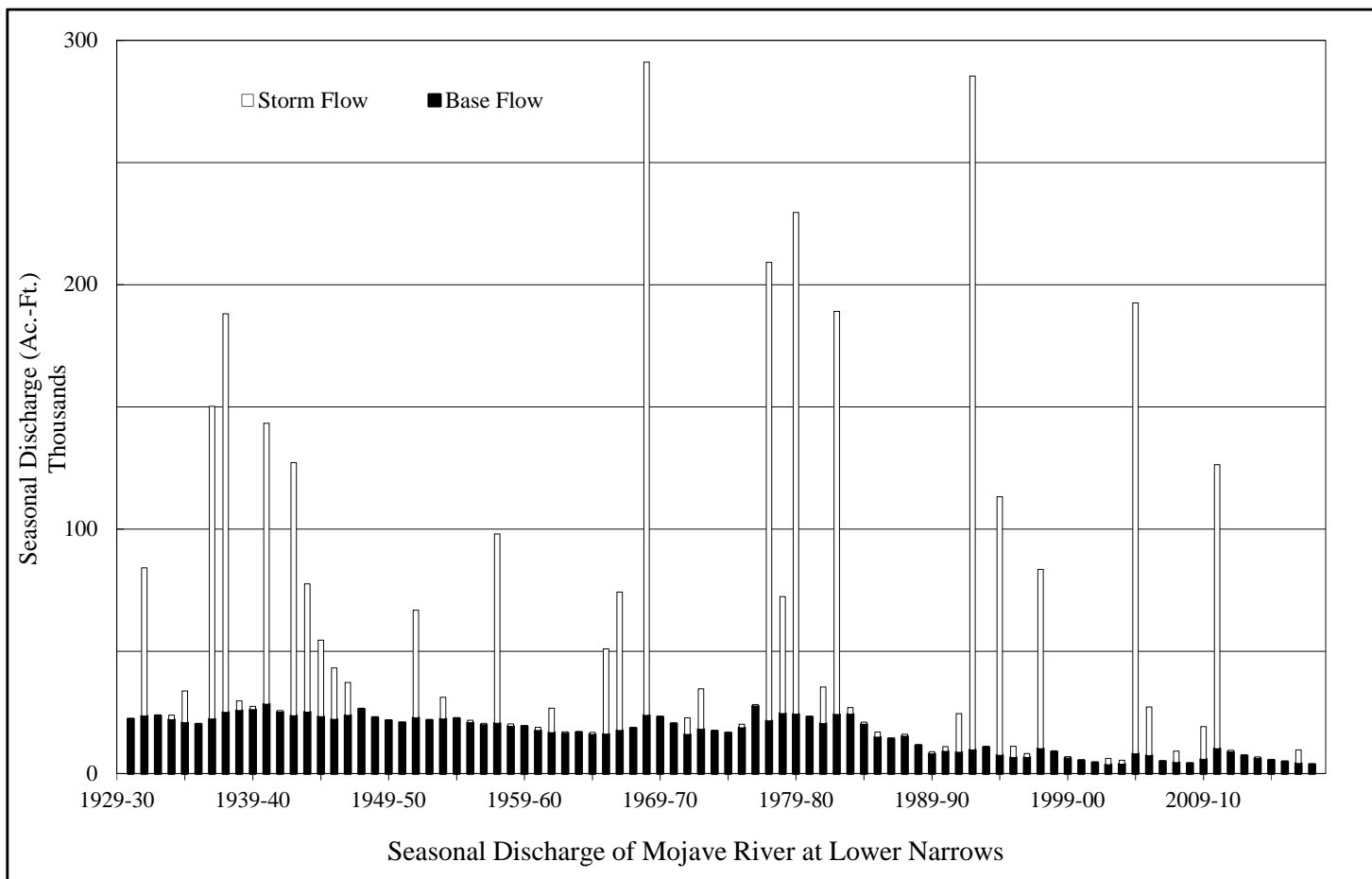


FIGURE 3-4

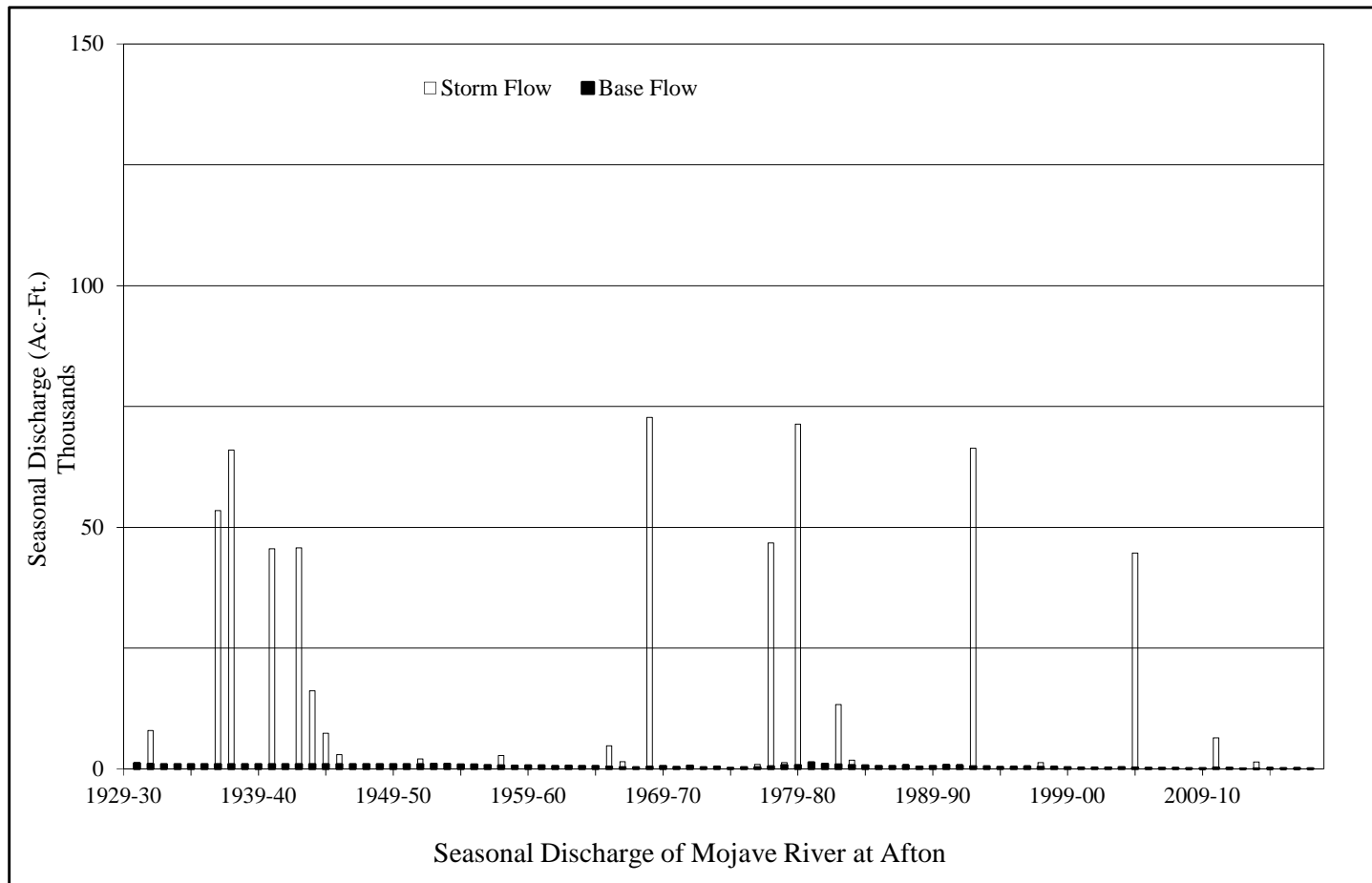
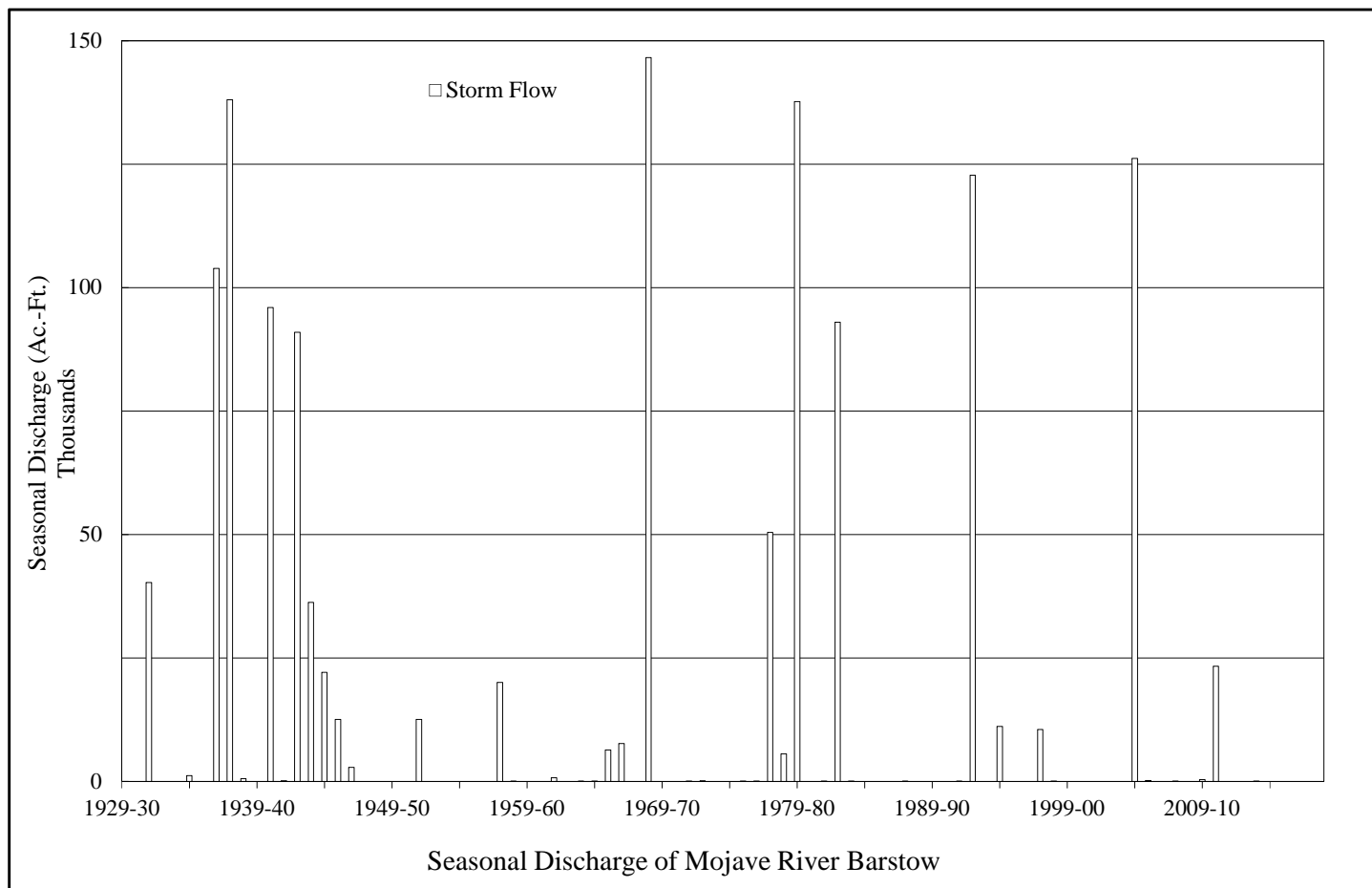


FIGURE 3-5



### **Wastewater Imports**

During 2017-18 reclaimed wastewater was delivered to the Mojave Basin Area for disposal by the following agencies:

	Amount Delivered (acre-feet)
Lake Arrowhead Community Services District	737
Crestline Sanitation District	566
Big Bear Area Regional Wastewater Agency	2,000
	<hr/>
	<b>3,303</b>

### **Victor Valley Wastewater Reclamation Authority Wastewater Effluent Discharges**

The VVWRA and Victorville deliver treated wastewater effluent to the Mojave River downstream from the Lower Narrows. This water is credited toward the Alto Subarea's Obligation to the Centro Subarea and amounted to 12,824 acre-feet for Water Year 2017-18. The annual wastewater effluent discharge to the Mojave River for the period 1985-86 through 2017-18 is shown on Figure 3-4.

### Imported Water Deliveries by MWA

During 2017-18 MWA delivered 16,179 acre-feet of State Water Project water to the Alto, Centro and Baja Subareas.

		(All Amounts in Acre-feet)					
	<u>Month</u>	<u>Alto</u> <sup>1</sup>	<u>Alto</u> <sup>2</sup>	<u>Centro</u> <sup>3</sup>	<u>Centro</u> <sup>4</sup>	<u>Baja</u> <sup>5</sup>	<u>Total</u>
(2017)	October	0	7,351	94	165	86	7,696
	November	0	7,065	41	0	0	7,106
	December	0	570	18	0	0	588
(2018)	January	0	0	10	0	0	10
	February	0	0	41	0	0	41
	March	0	0	50	0	0	50
	April	0	0	68	0	0	68
	May	0	12	97	0	0	109
	June	0	0	159	0	0	159
	July	0	0	105	0	0	105
	August	0	0	142	0	0	142
	September	0	0	105	0	0	105
	<b>Total</b>	<b>0</b>	<b>14,998</b>	<b>930</b>	<b>165</b>	<b>86</b>	<b>16,179</b>

<sup>1</sup> Deliveries to the power plant at SCLA.

<sup>2</sup> Deliveries to recharge facilities in the Alto Subarea pursuant to a storage agreement with Watermaster.

<sup>3</sup> Deliveries to the solar generating facility at Kramer Junction.

<sup>4</sup> Deliveries to recharge facilities in the Centro Subarea pursuant to a storage agreement with Watermaster.

<sup>5</sup> Deliveries to recharge facilities in the Baja Subarea pursuant to a storage agreement with Watermaster.

### **Transition Zone Water Levels**

The Judgment requires that minimum water levels be established in the Transition Zone primarily for the purpose of prioritizing recharge within the Alto Subarea. According to the Judgment, until minimum water levels are established, recharge of supplemental water must be delivered to the Transition Zone first, if there is a mandatory replacement obligation in the Transition Zone. Since entry of the Judgment, there has not been a mandatory replacement obligation in the Transition Zone.

Watermaster submitted to the Court in April 2007, and the Court approved recommended water levels in the Transition Zone and a water level monitoring procedure as required by the Judgment.

There are three areas within the Transition Zone that are to be evaluated annually. Water level data will be collected from wells in these areas and presented in the Watermaster's Annual Report to the Court. Well locations are shown on Figure 3-6. Water level hydrographs for Transition Zone wells are shown on Figures 3-7, 3-8 and 3-9.

Figure 3-7 shows water levels in three wells near the Helendale Fault. Well number 08N04W20N01 & P02 provides historical reference for water levels dating back to 1930. The composite water level has changed nominally since 1930. Because this well has been discontinued, Watermaster proposes to monitor wells 08N04W19G04 and 08N04W29E06. Both of these wells indicate water level stability over the period of record (since 1994). Water level variation over a two-year period exceeding 20 feet will be considered to have encroached on the minimum Transition Zone Water Levels and will require corrective measures. Water levels in this area remained stable during the previous Water Year and exhibit the same seasonal variation as the past 5 years.

Figure 3-8 shows water levels in wells downstream from Victor Valley Wastewater Reclamation Authority's (VWVRA) point of discharge to the Mojave River. VWVRA discharged 12,824 acre-feet during 2017-18 which supports water levels within the Transition Zone. These water levels remained stable during Water Year 2017-18.

Figure 3-9 shows water levels in two shallow wells and a multi-nested well in the vicinity of the City of Adelanto's municipal water supply wells, and downstream of the United States Geological Survey (USGS) gage, "Mojave River at Lower Narrows near Victorville". These wells

show seasonal variability but no long-term downward trend. The multi-nested well was installed by MWA and the California Department of Fish and Wildlife (DFW) in February 2008. Watermaster reported to the Court that it would revisit minimum water levels in the Transition Zone after collecting data for five (5) years from this new well. The water level measurements since installation in 2008 indicate seasonal fluctuation and year over year stability. The decreasing seasonal water level fluctuation is an indication of an equilibrium condition in the Transition Zone. As the data from this well has only been collected since 2008 (date of installation), and indicates a rising or stable condition, there is insufficient information to recommend a reasonable minimum water level. If the condition of rising water or stable water level over time continues, there may be no reason for a control point for minimum levels.

### **Transition Zone Water Balance**

Watermaster prepares a water balance calculation for each subarea annually pursuant to the Judgment. For purposes of tracking annual variability in Transition Zone water supply, we are including a water balance calculation specifically for the Transition Zone. Figure 3-10 shows the annual calculated Transition Zone outflow since 1991, versus the 60-year base period average (1931-1990 “Base Period”). Total outflow from the Transition Zone is inflow to Centro. On an annual basis, outflow to Centro is highly variable consistent with the infrequent storms typical of desert environments. Transition Zone water levels have been stable or rising since 1994, suggesting that change in storage within the Transition Zone is nearly zero.

The elements of Transition Zone water supply include:

- Surface water inflow from the Mojave River, measured at the USGS Gaging Station at Lower Narrows (Table 3-1)
- Measured Victor Valley Wastewater Reclamation Authority (VWRA) effluent discharges (Chapter 3)
- Ungaged estimated contributions from urban development
- Long-term subsurface flow (Table 5-1)
- Return flows from production

Return flows are determined by analyzing verified production and use data maintained by Watermaster to provide estimates of consumptive use for all uses within the subarea since 2012

(see the State of the Basin section for more information about the consumptive use analysis). Return flow from production for water years 1994 through 2011 is estimated based on verified production and historic consumptive use in Alto Subarea, analysis of irrigation demands for Silver Lakes Golf Course, lake evaporation, Helendale Community Services District (HCSD) wastewater flow, and estimations of domestic use based on HCSD flows. Verified production less estimated consumptive use becomes return flow to the Transition Zone.

The elements of use from the Transition Zone are:

- Groundwater extractions (production)
- Consumptive use by native vegetation (phreatophytes)

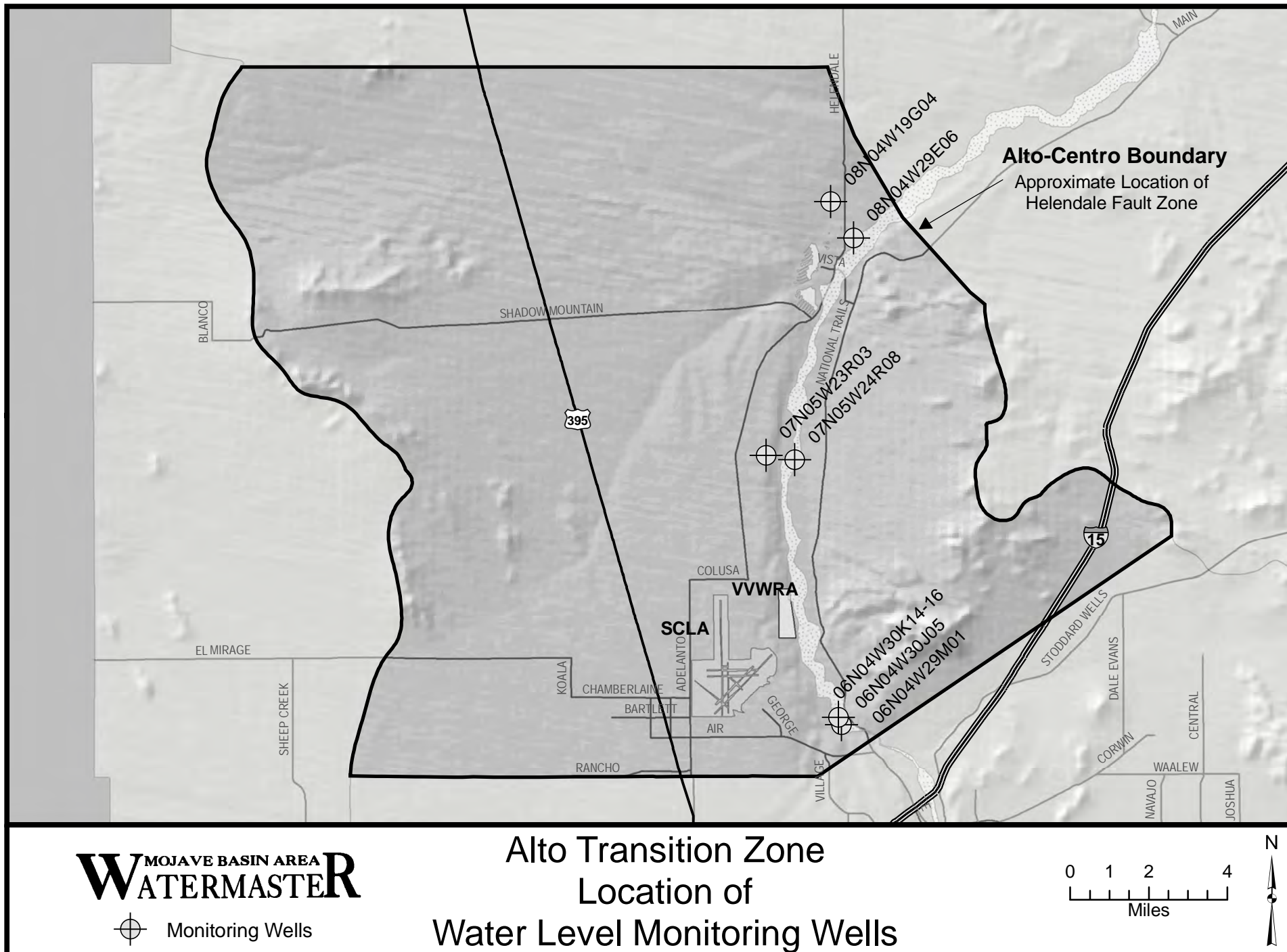
Verified production is compiled, verified, and maintained by Watermaster annually. Consumptive use for phreatophytes in the Transition Zone is based on a 2011 study by USBR which quantified consumptive use by phreatophytes in 2007 and 2010 (USBR 2011). Consumptive use for phreatophytes for 2010 was independently analyzed by Wagner & Bonsignore and compared to the findings of the USBR study, from which a coefficient was derived and used to adjust subsequent years. It is assumed the biomass recorded in 2010 by USBR remains the same through the current year, while consumptive use varies year-over-year based on changes in climate conditions.

The elements for calculating outflow from the Transition Zone to the Centro Subarea include:

- Long-term subsurface outflow (Table 5-1)
- Surface water outflow leaving the Transition Zone (which becomes inflow to the Centro Subarea)

Surface water outflow from the Transition Zone to the Centro Subarea is calculated based on the assumption that change in storage in the Transition Zone is zero. Historical water levels in the Transition Zone are stable over long periods of time (Figure 3-13). Therefore, for simplicity, surface water outflow is determined as the sum of water supply, less the sum of consumptive use and subsurface flow. Figure 3-10 shows that since the end of the hydrologic Base Period (1931-1990), average flow to Centro (1991-2018) has exceeded the Base Period average.

FIGURE 3-6



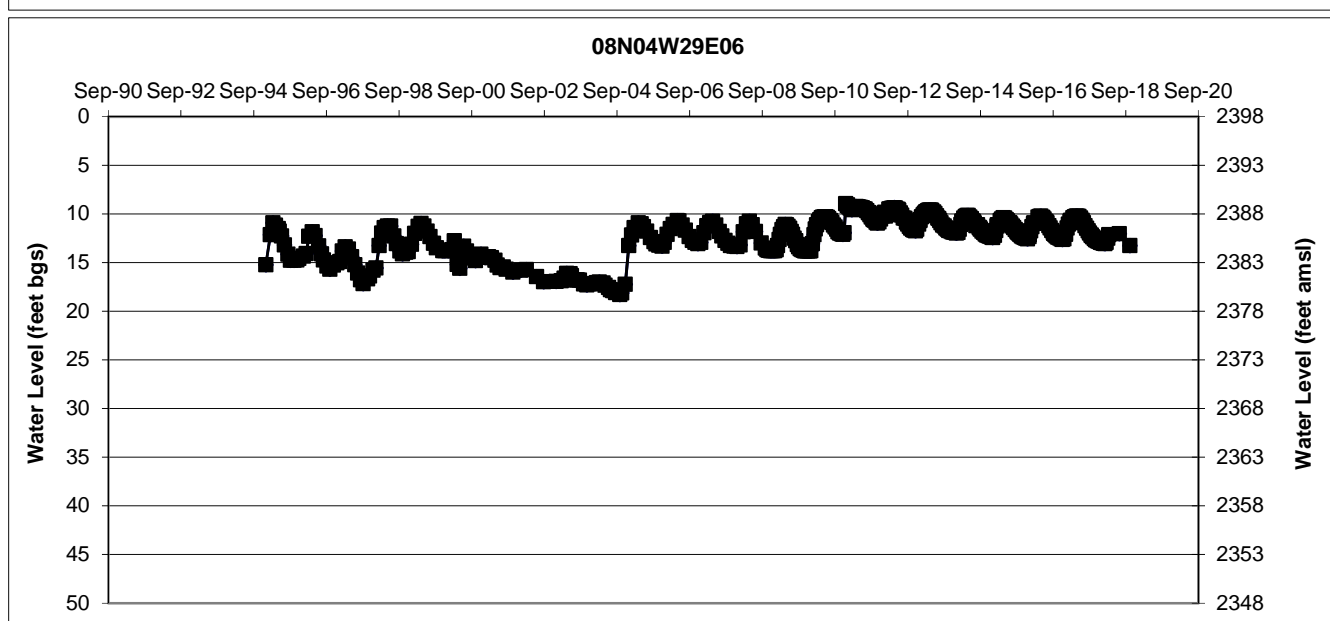
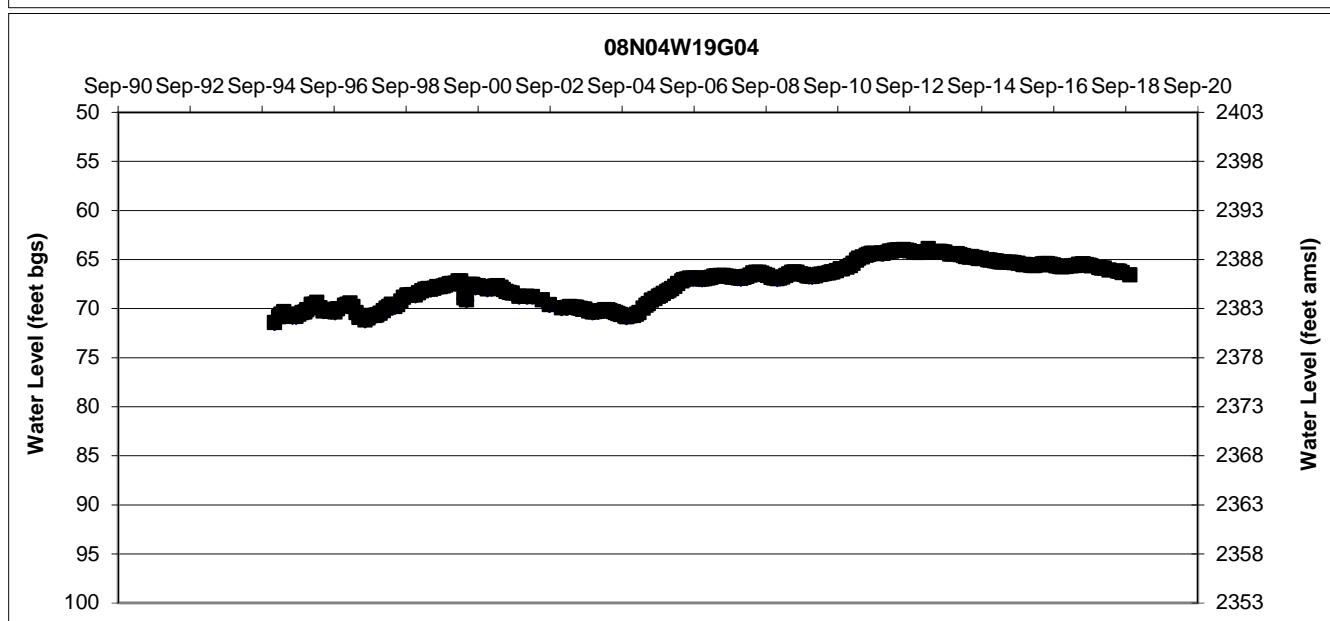
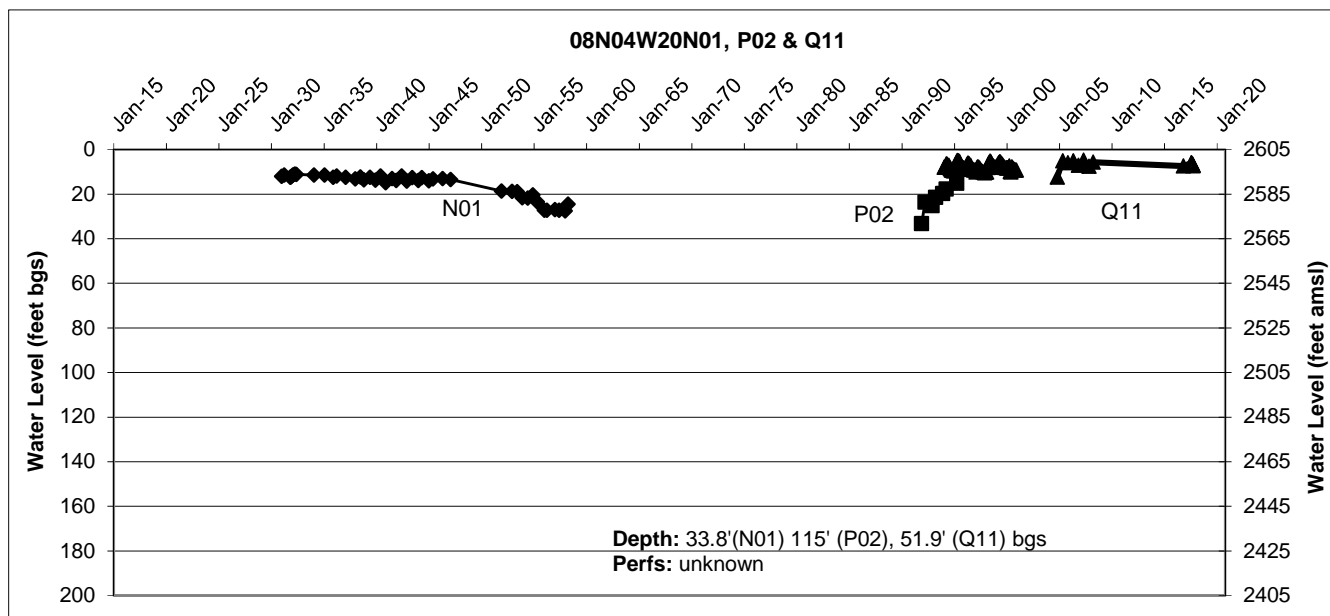


FIGURE 3-7

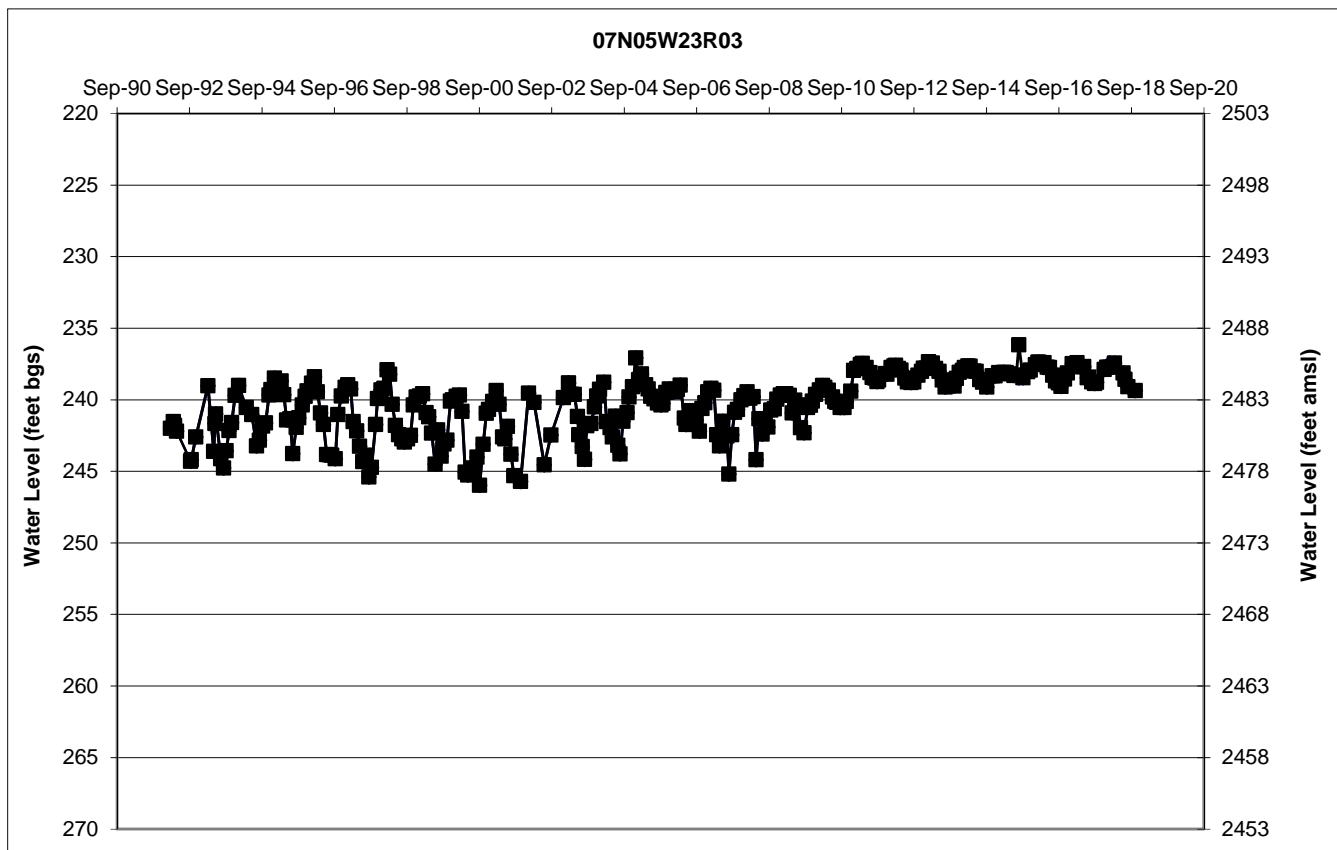
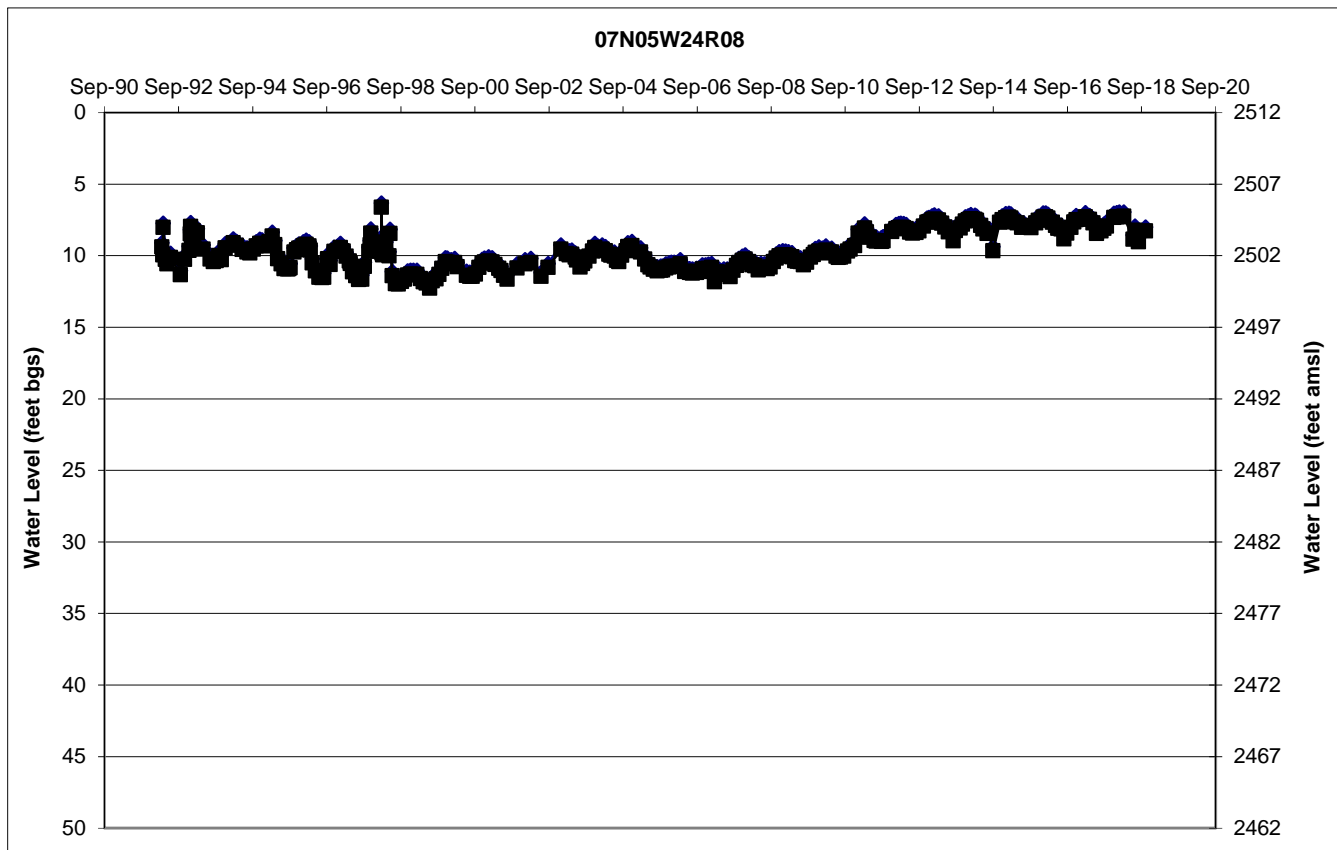


FIGURE 3-8



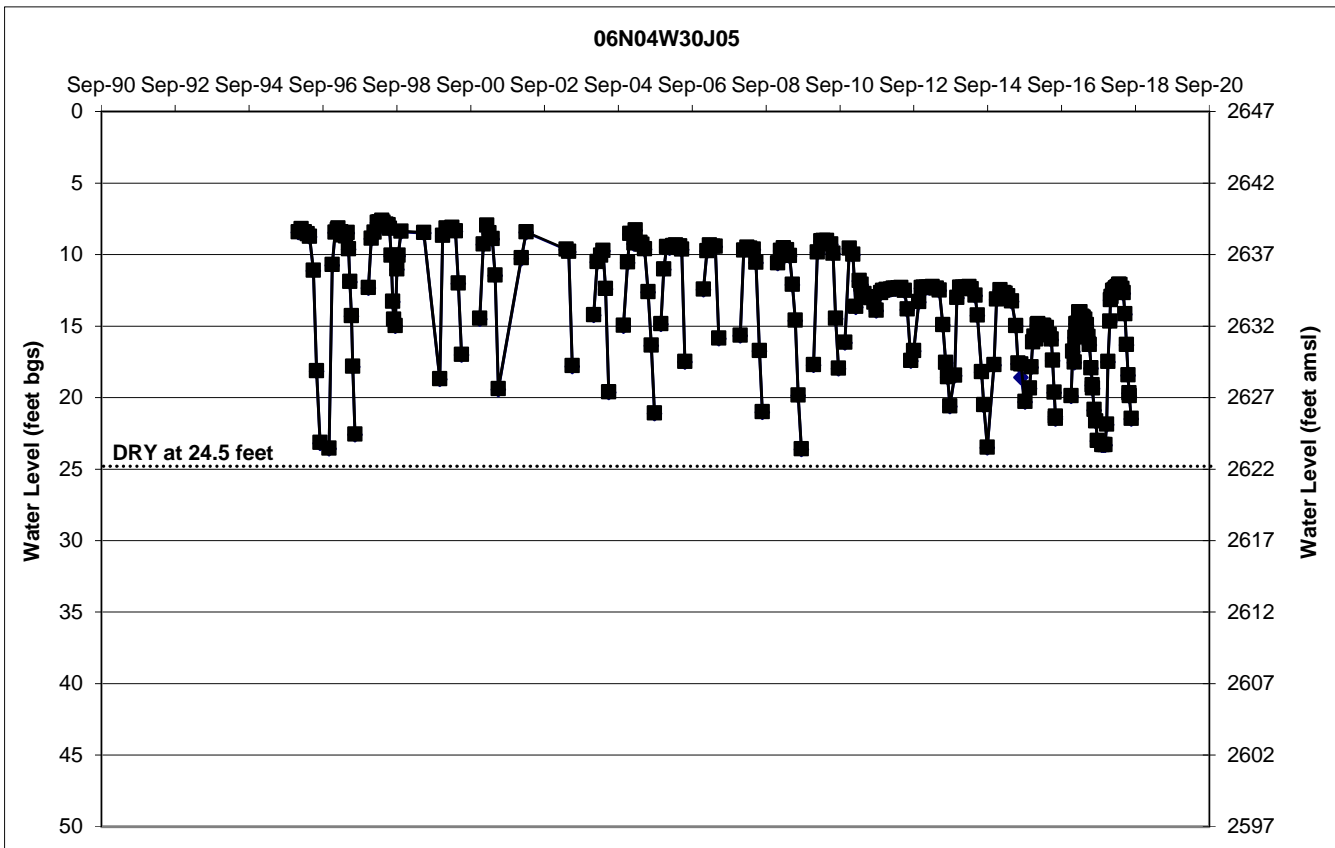
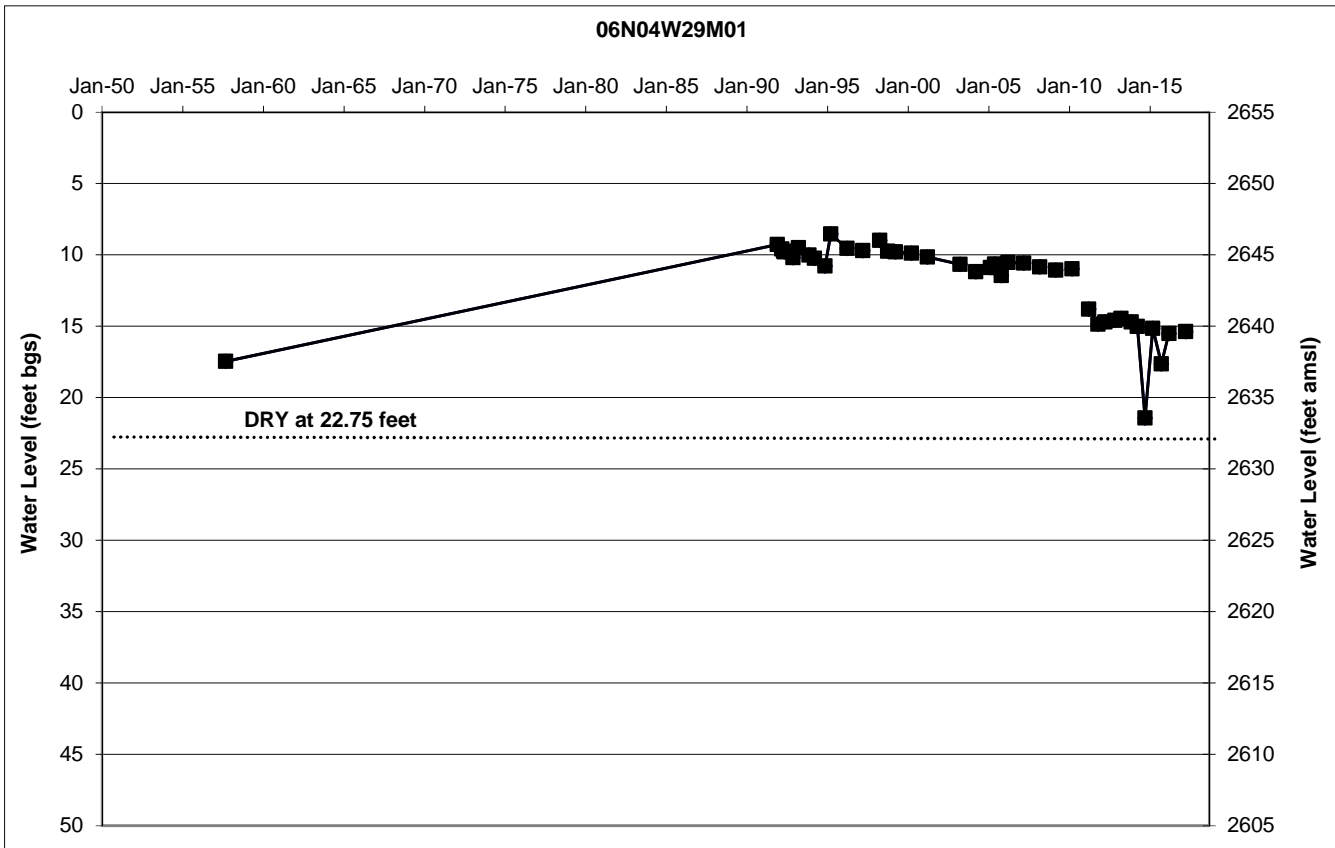


FIGURE 3-9

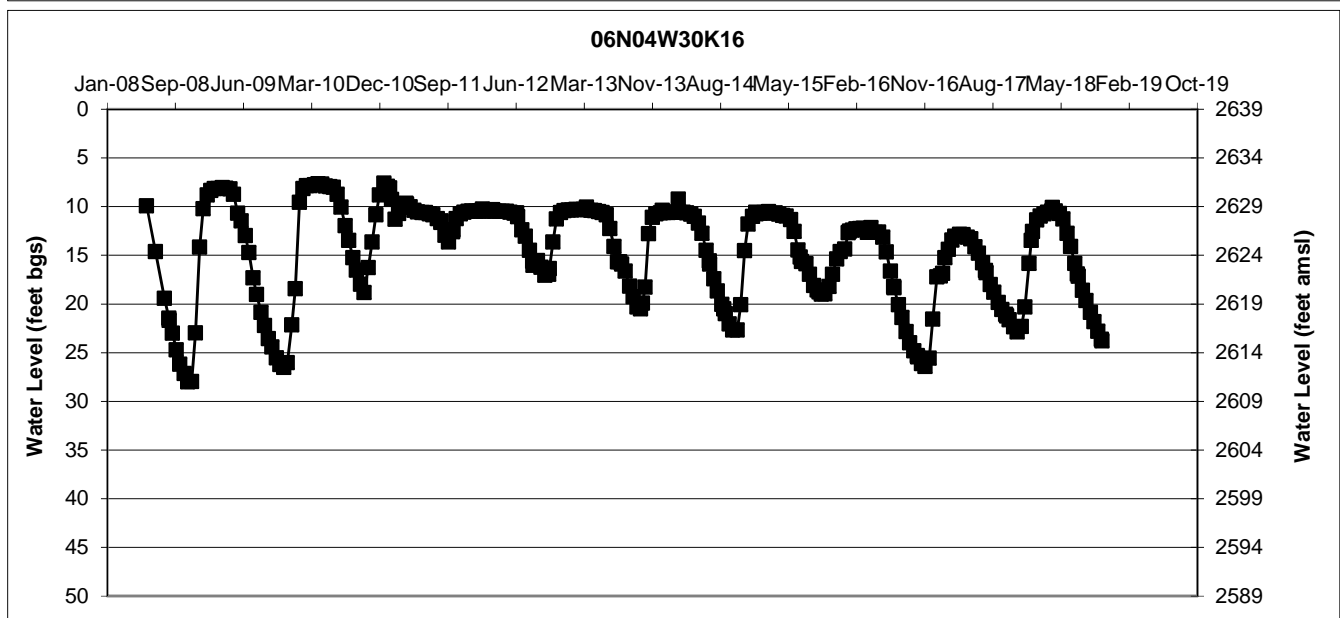
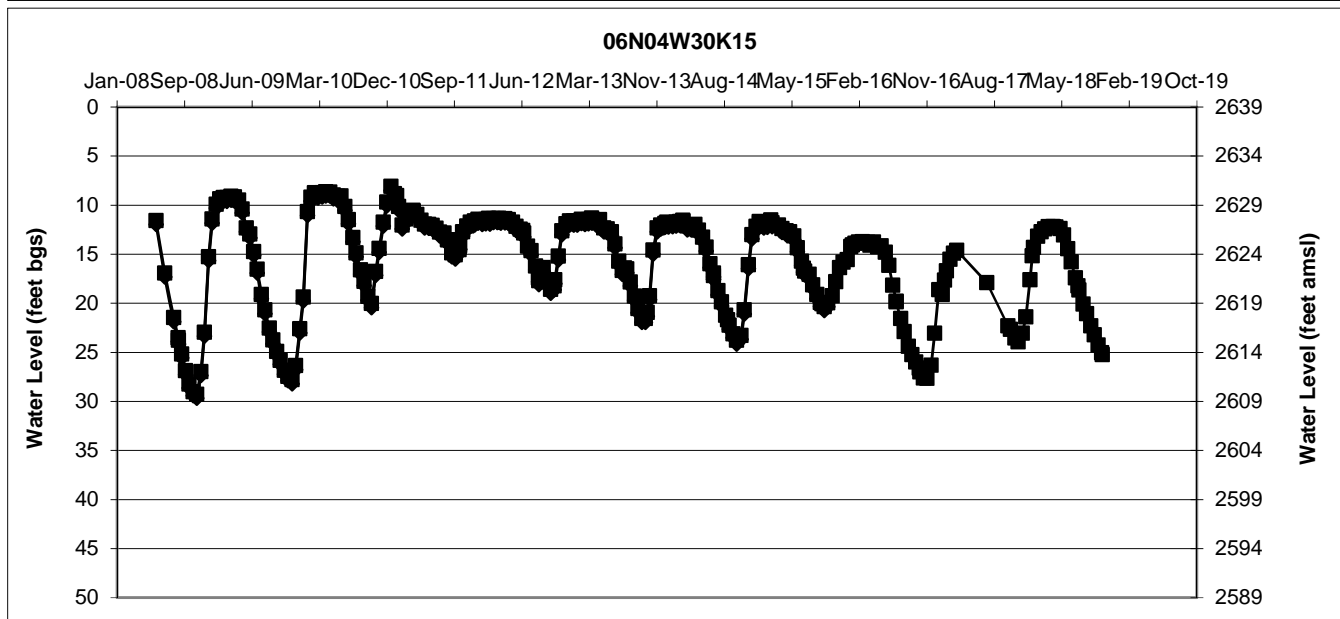
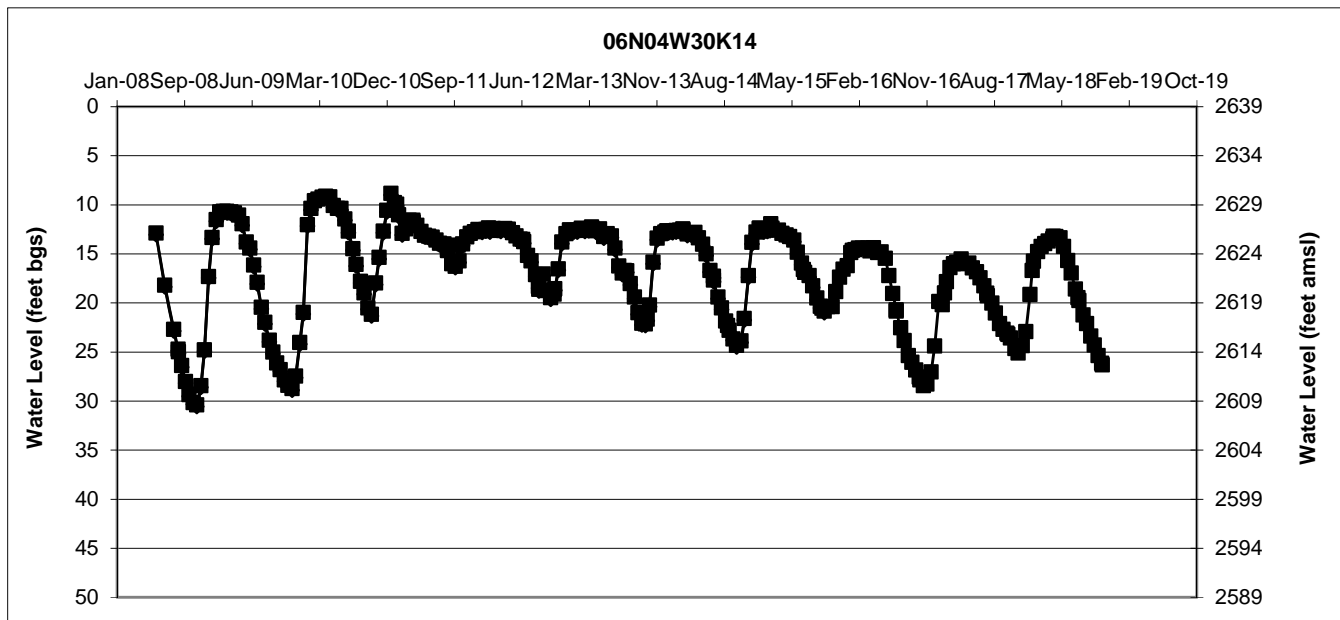


FIGURE 3-9

# Transition Zone Water Balance

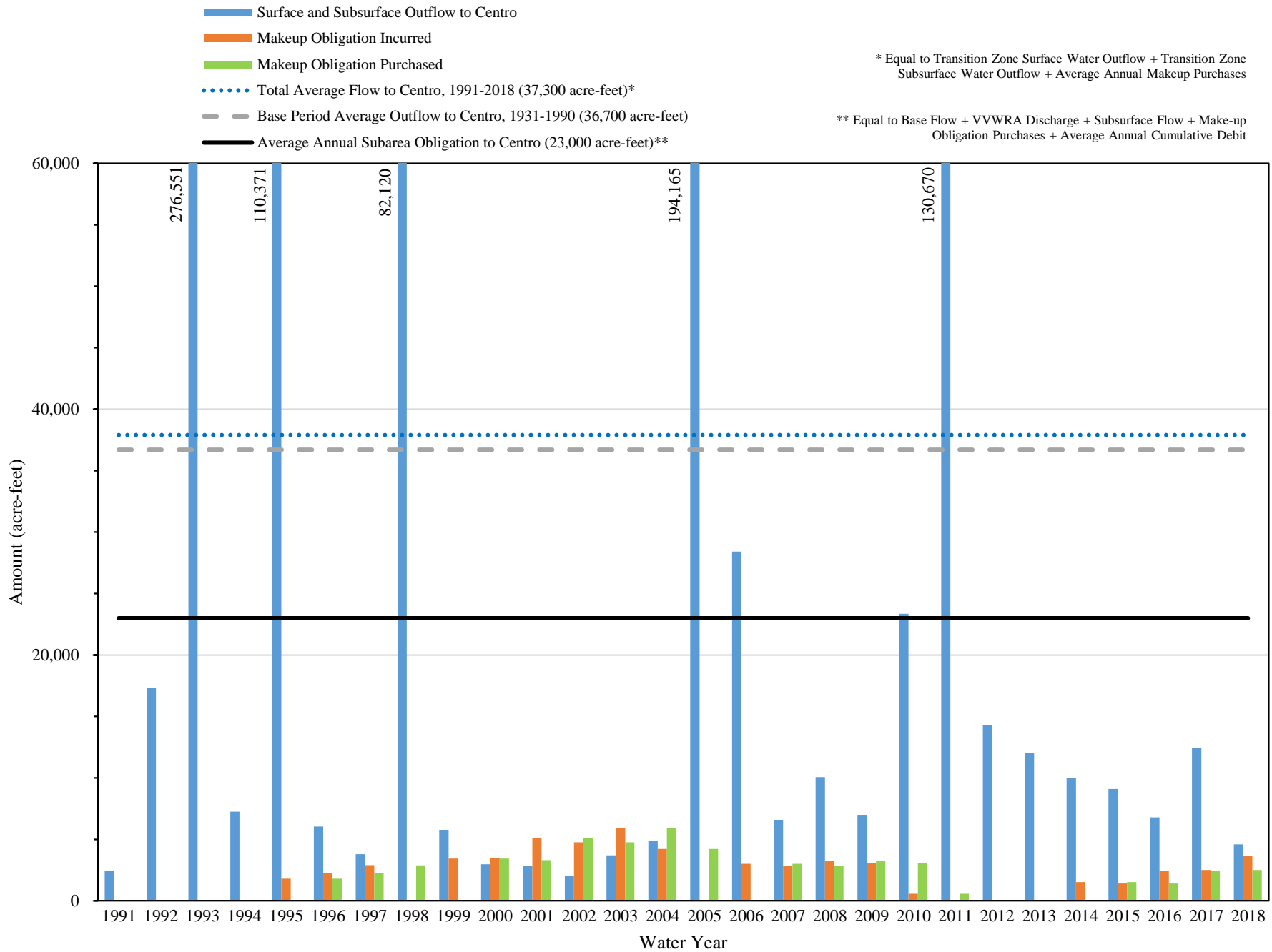


FIGURE 3-10

## **Subarea Water Levels**

Water levels within each of the five Subareas were reviewed as part of the Watermaster's investigation into Subarea conditions and recommendations on Free Production Allowance. Water levels are measured by the Mojave Water Agency and are also reported to the California Statewide Groundwater Elevation Monitoring (CASGEM) program. The Judgment does not specifically require that Watermaster consider changes in water levels in its investigation but Paragraph 24 (o) of the Judgment requires Watermaster to consider changes of water in storage. Rising and falling water levels within the Basin Area are indications of changes in storage over time. While the amount of water level data collected and maintained by MWA is extensive, it is not sufficient to determine changes in storage in each Subarea by using changes in water levels. However, the data is sufficient to make generalizations about the conditions in each Subarea. Watermaster has estimated the annual change in storage for each Subarea in Table 3-2.

Hydrographs of wells generally representative of Subarea conditions are maintained by MWA for public review at: <http://www.mojavewater.org/subarea-hydrograph-gallery.html>

A more extensive set of water level data is reported by Mojave Water Agency to the CASGEM program at: [http://www.water.ca.gov/groundwater/casgem/online\\_system.cfm](http://www.water.ca.gov/groundwater/casgem/online_system.cfm)

The hydrographs were presented for inspection at the February and March 2019 Watermaster meetings and discussed in detail by the Engineer. Figures 3-11 through 3-17 are reduced copies of the exhibits available on the MWA website. A summary of the water levels for each Subarea is presented below.

### **Alto Subarea**

Water levels in Alto are presented on three maps depicting hydrographs that represent conditions throughout Alto. 1) Western portion is generally west of the Mojave River (the river is included in the western portion); 2) Eastern portion is generally east of the Mojave River; and 3) Alto Transition Zone. Alto water levels near the river are relatively stable exhibiting seasonal variation, rising in winter and falling in summer. It is expected that, under current pumping conditions and long-term precipitation, near river wells will remain stable. Water levels in the western portion of Alto in the regional aquifer exhibit declines consistent with locally heavy pumping and limited local recharge. Water levels in the eastern portion of Alto indicate similar trends although to a lesser extent; most likely due to limited pumping in the regional aquifer east of the river. Continued pumping in depleted areas of the regional system may result in long local

negative impacts such as declining yields and water quality problems. Watermaster is not aware of wide spread problems in the regional system due to the falling water table. Water levels in near river wells, particularly in the upper part of Alto, had experienced a trend of decline for 5 years consistent with limited recharge due to drought conditions. However, recent precipitation, locally and in the mountains, has reversed the decline, with some wells showing signs of recovery. The relative stability, over time, of near river water levels and water levels in the Transition Zone indicate hydrologic stability in the relationship between Alto and the downstream Subareas.

### **Baja Subarea**

Baja water levels continue to decline due to over pumping and limited recharge opportunities. Wells near the river in the Daggett area respond to recharge when it is available but continue to fall immediately following storm events. Water levels elsewhere in Baja show declines without indicating recovery after storms.

### **Centro Subarea**

Water levels in Centro have been stable showing seasonal variability and declines during dry years but generally recover during wet periods. Water levels in the Harper Lake area indicate a slow recovery due primarily to cessation of pumping during the past several years. Water levels in the Hinkley area, away from the river system show the effects of pumping and limited recharge.

### **Este Subarea**

Water levels in Este have remained stable for the past several years indicating a relative balance between recharge and outflow.

### **Oeste Subarea**

Water levels in Oeste have declined over time and are likely to continue to decline as water production increases in-step with projected population growth. However, reviewing the available data on a shorter time frame of 15-20 years indicates that, in the short-term, water levels are variable but stable. Water production, water use and water level data indicates that over the past 15-20 years, water supply and demands (local precipitation, return flow from pumping, extractions, and outflow) are about equal. However, the past 15-20 years may not be representative of the longer-term water supply conditions in Oeste. Further, population and thus water demand is expected to increase in the future, which will result in continued water level decline.

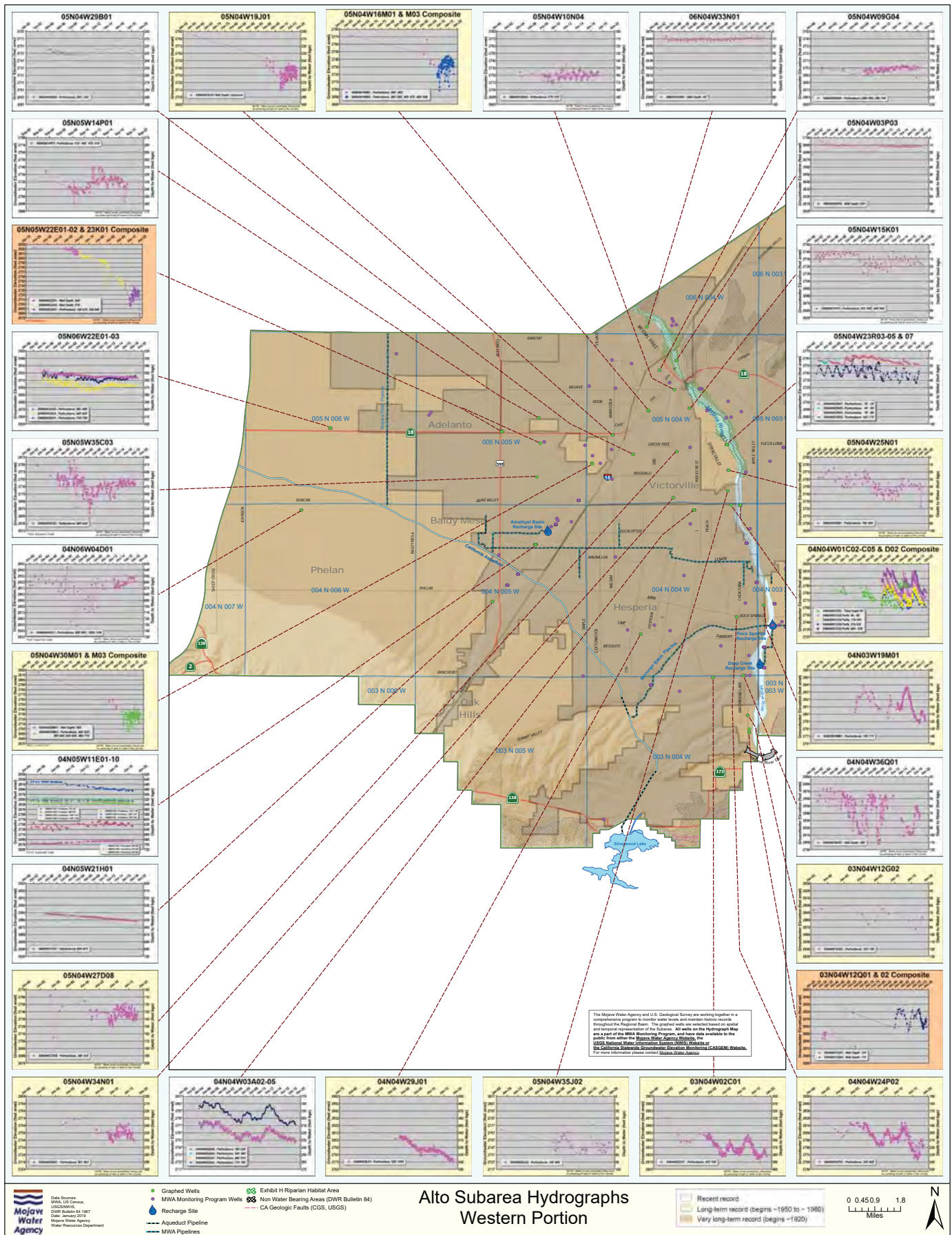


FIGURE 3-11







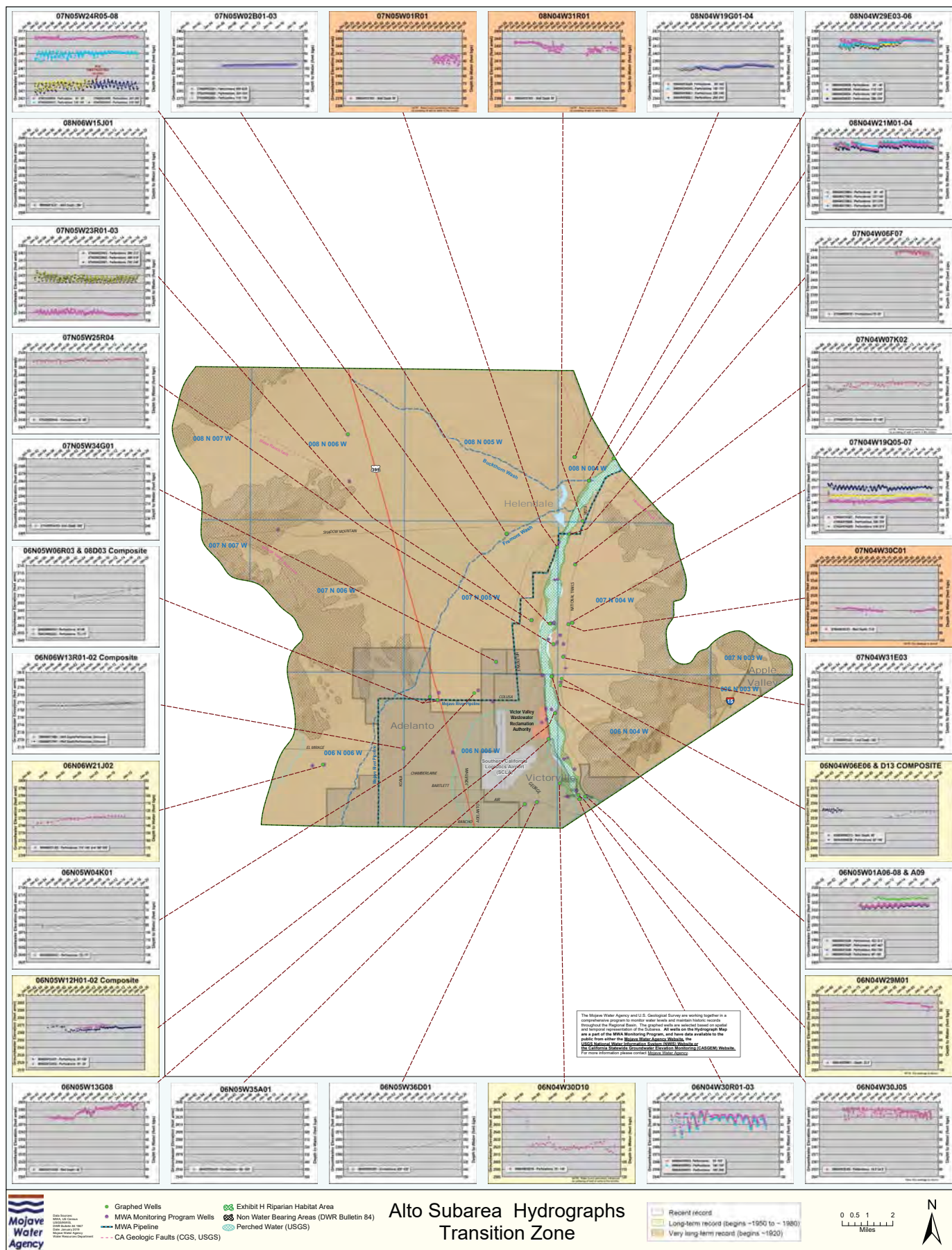


FIGURE 3-13



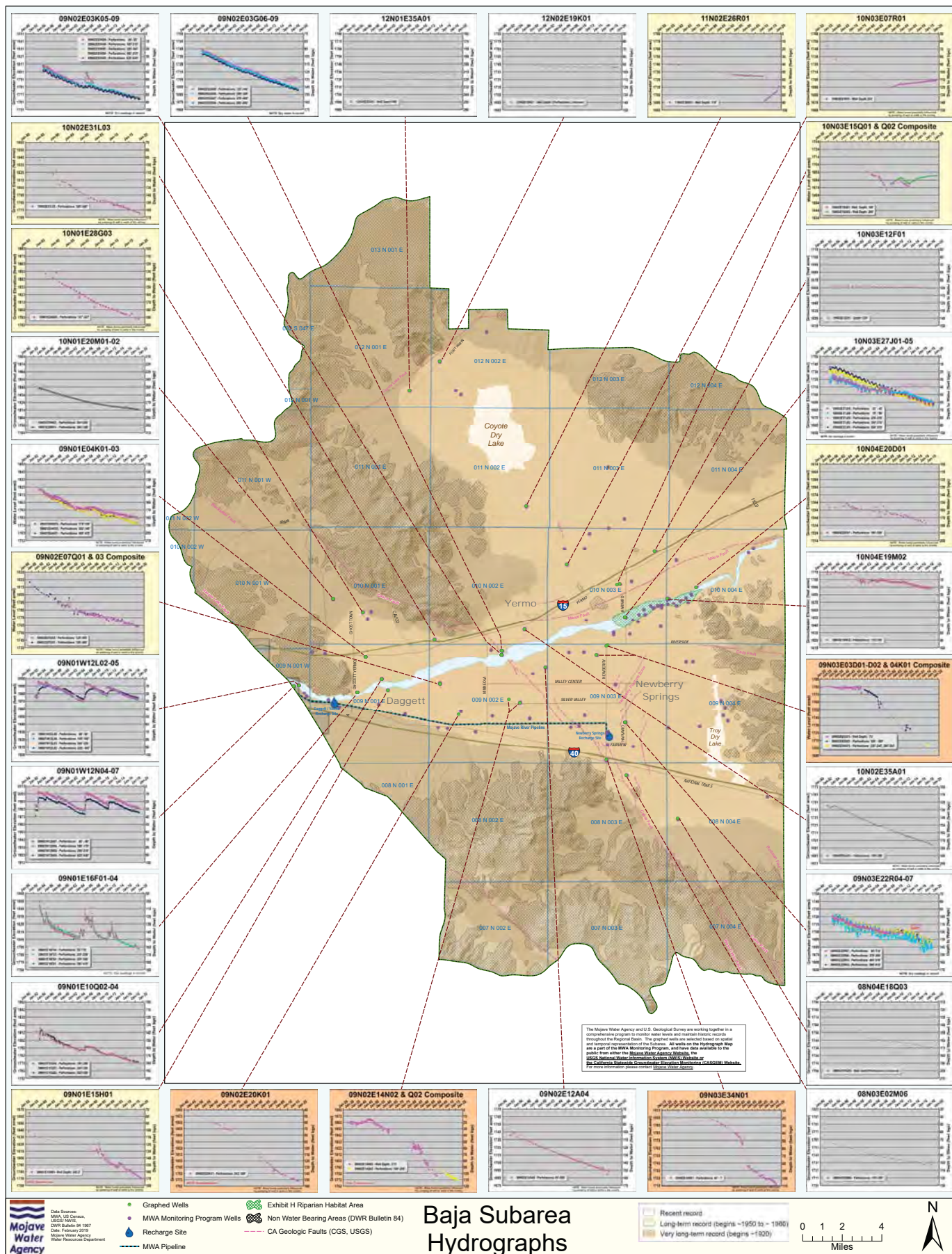


FIGURE 3-14



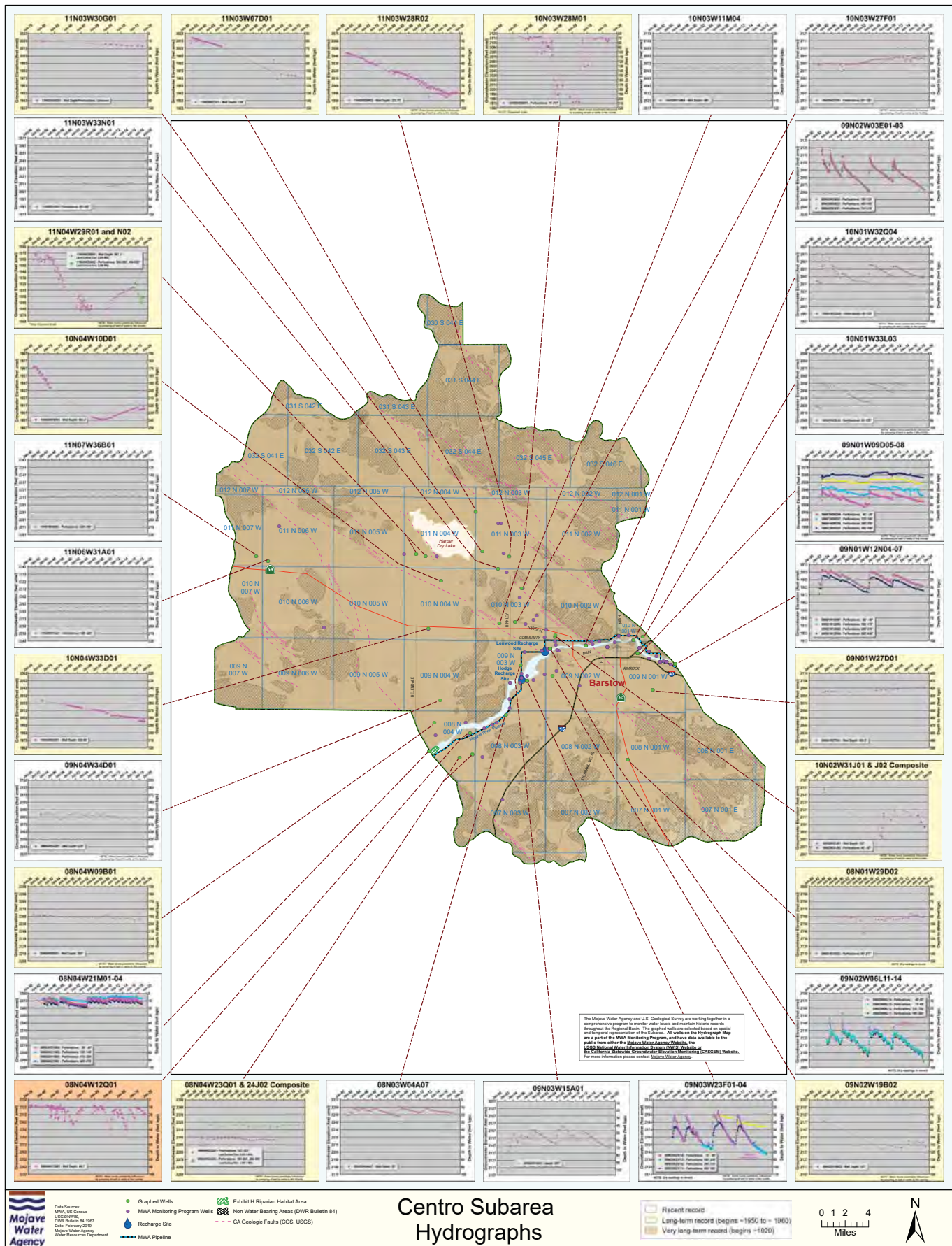


FIGURE 3-15

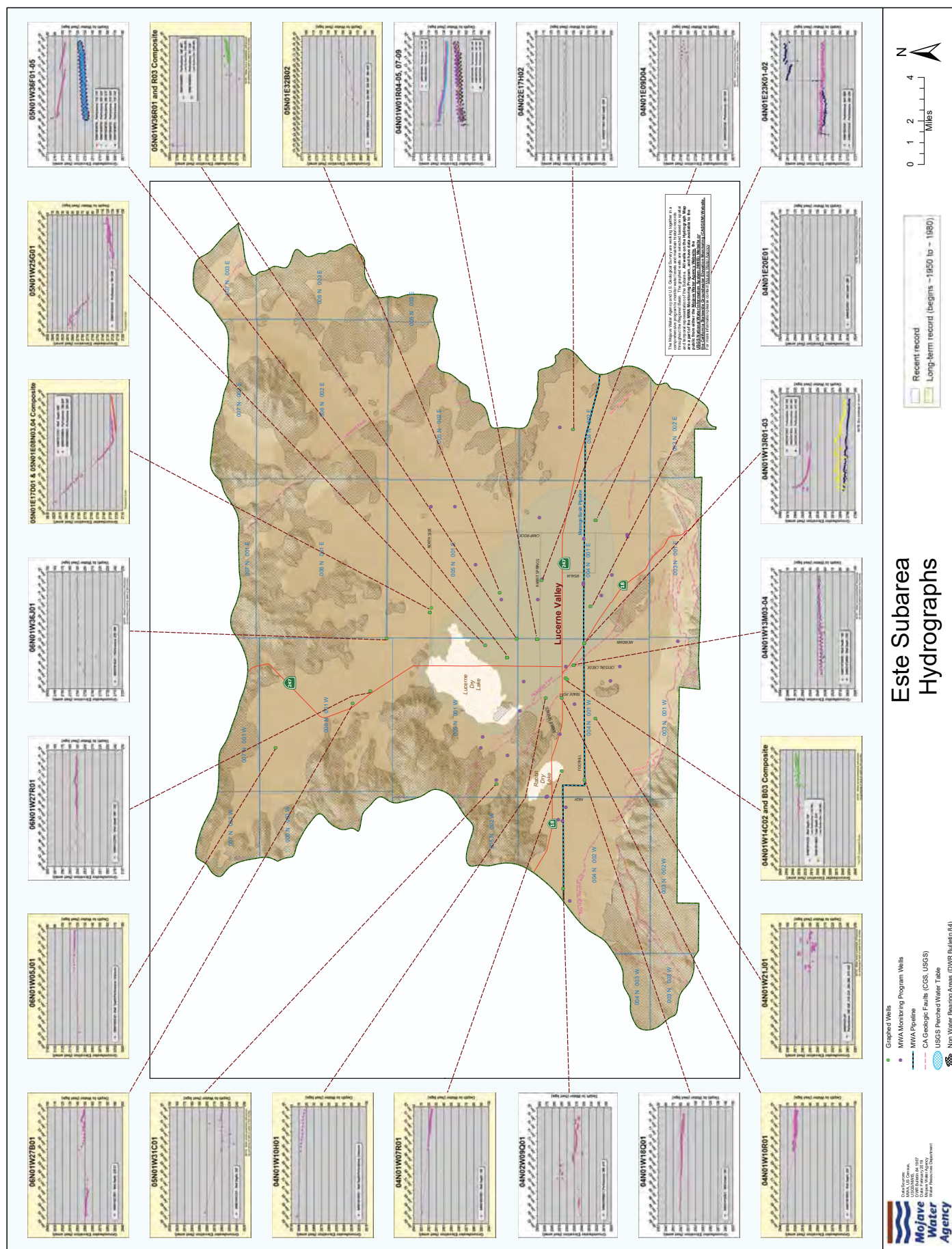


FIGURE 3-16



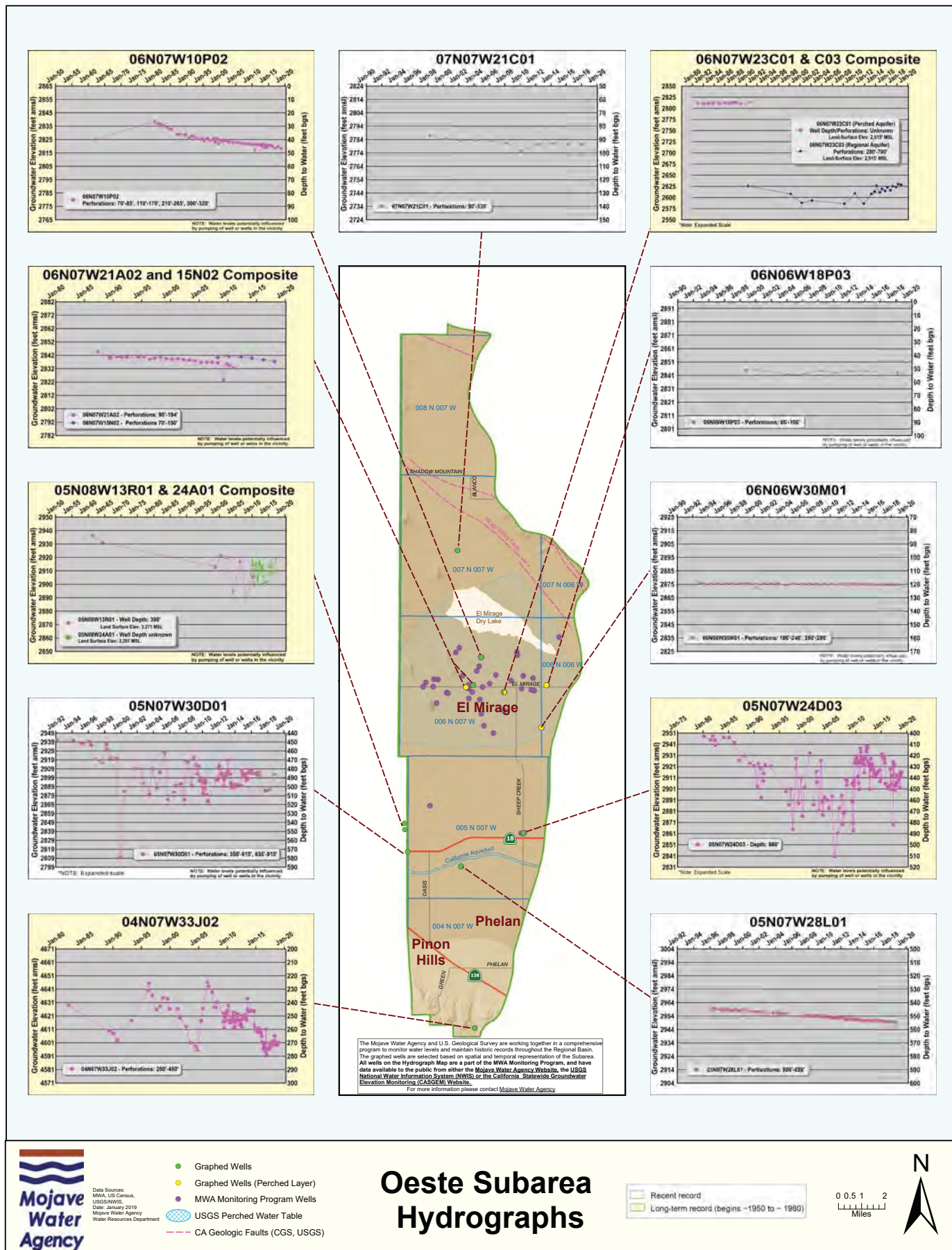


FIGURE 3-17

## **State of the Basin**

Watermaster has developed a graphical decision making tool to assess changes of water in storage over time. Developed cooperatively with MWA, the tool is part of a larger program to track changes in water levels and match the changes with an annual calculation of inflow, outflow, and consumptive uses. Watermaster has developed a methodology for evaluating and estimating consumptive uses on an individual producer basis providing a more precise estimate of water use in each Subarea resulting in a more reliable calculation of change in storage. Consumptive use has been evaluated for the last seven years and continues to become increasingly fine-tuned as individual producer's use and each Subarea's hydrogeology are fully understood.

Watermaster has conducted an annual estimate of consumptive uses concurrent with Watermaster annual water production verification. Water production and use data compiled, verified and maintained by Watermaster were analyzed to determine the portion of water produced that was consumptively used.

The consumptive use analysis has been conducted annually since Water Year 2011-12 to provide estimates for irrigation demands for crops, septic return flow, sewage return flow, municipal and domestic outdoor return flow, as well as estimates of consumptive use for golf courses, parks and recreational lakes. The analysis breaks down each producer's water production into component parts, calculates a consumptive use for each sequential use and sums the results. Production records and land uses are evaluated annually for each individual producer. Daily climate data, soil survey information, crop development characteristics (crop coefficients, maximum effective rooting depth, and allowable soil water depletion), and producer's agricultural uses are analyzed to determine an irrigation demand. For municipal uses, available water purveyor data is evaluated to estimate per capita indoor and outdoor use for single-family and multi-family residential uses as well as industrial and commercial uses where applicable. Domestic uses are also evaluated on an individual producer level and indoor and outdoor use is estimated. The aggregate of each individual producer's consumptive use, in conjunction with available surface flow data, estimates of subsurface flow between subareas, and imported water result in the annual change in storage calculation.

Figures 3-18 through 3-22 show the accumulated storage change annually in each Subarea. Change in storage in the groundwater basin is calculated by subtracting the sum of the elements of inflow including imports, from outflow, consumptive uses, and exports. The information shown on the figures is indicative of the sustainability of the water supply conditions in each subarea.

Various ranges, shown by color gradations from blue to red, were developed for the Alto and Centro Subareas. In Alto (Figure 3-18), the minimum operating level is the amount of calculated storage change as of 2005, during which time the basin was considered to be healthy. The maximum operating level is the minimum level plus 5 years of average annual consumptive use. Average annual consumptive use in Alto is about 56,000 acre-feet, representing a year of pumping under the land and water use conditions existing since 1996.

In Centro (Figure 3-19) the minimum operating range is the amount of calculated storage change since 1997, the lowest since the Judgment, during which time the basin was considered to be healthy. The maximum operating level is the minimum level plus a supply of 5 average annual consumptive uses, with an average annual consumptive use being about 18,000 acre-feet from 1996 to 2018.

Conditions in Baja (Figure 3-20) have yet to stabilize since 1996. As such, optimal operating parameters have not been established. Figure 3-20, (for Baja), shows the continued overdraft and continued depletion of groundwater in storage.

The optimal operating parameters for Este (Figure 3-21) have not been established, though the elements of water supply use and disposal appear to be balanced based on water level data for at least the past 18 years. As shown on Table 3-2, water supply for Este for 2017-2018 is approximately 4,000 acre-feet, assuming annual average change in storage is approximately zero.

Elements of water production, water supply, and outflow in Oeste (Figure 3-22) are roughly in balance over the past 17 years. A detailed review of the water levels in Oeste over the past several years indicates a short-term stability in some areas. In order to reflect the relatively stable water levels as indicated in the regional well hydrographs, Table 3-2 reflects “no change in storage.” Optimal operating parameters for Oeste have not been established.

MWA’s 2015 Urban Water Management Plan considered three water shortage scenarios for evaluating water supply reliability. The scenarios included a six-month outage of the State Water Project (SWP) as well as a single year historic drought on the SWP and the historic four

year SWP drought. In part, the Operating Ranges for healthy long term subarea operation as shown on Figures 3-18 and 3-19 are reflective of the dry year scenarios referenced in the 2015 UWMP. During the 19 years since Entry of Judgment, basin operating storage has ranged from a decline of approximately 3.4 years of consumptive use in Alto (189,342 acre-feet), and 3 years in Centro (55,058 acre-feet), to an increase of 4 years in Alto (226,489 acre-feet), and 7.5 years in Centro (137,389 acre-feet). The operating ranges, about 282,000 acre-feet in Alto and about 92,000 acre-feet in Centro, are well within the limits identified for dry year reliability envisioned by the 2015 UWMP. Since 1996, Baja has lost about 433,126 acre-feet of groundwater storage. There is concern that the Baja subarea could not sustain a continued reduction in storage.

Watermaster uses the State of the Basin analysis for documenting sustainability of the groundwater basin in reference to legislation enacted as Water Code sections 10720-10720.9 known as the Sustainable Groundwater Management Act (SGMA). The annual change in storage determined from the methodology described above for Water Year 2017-18 is shown on Table 3-2.

**TABLE 3-2**

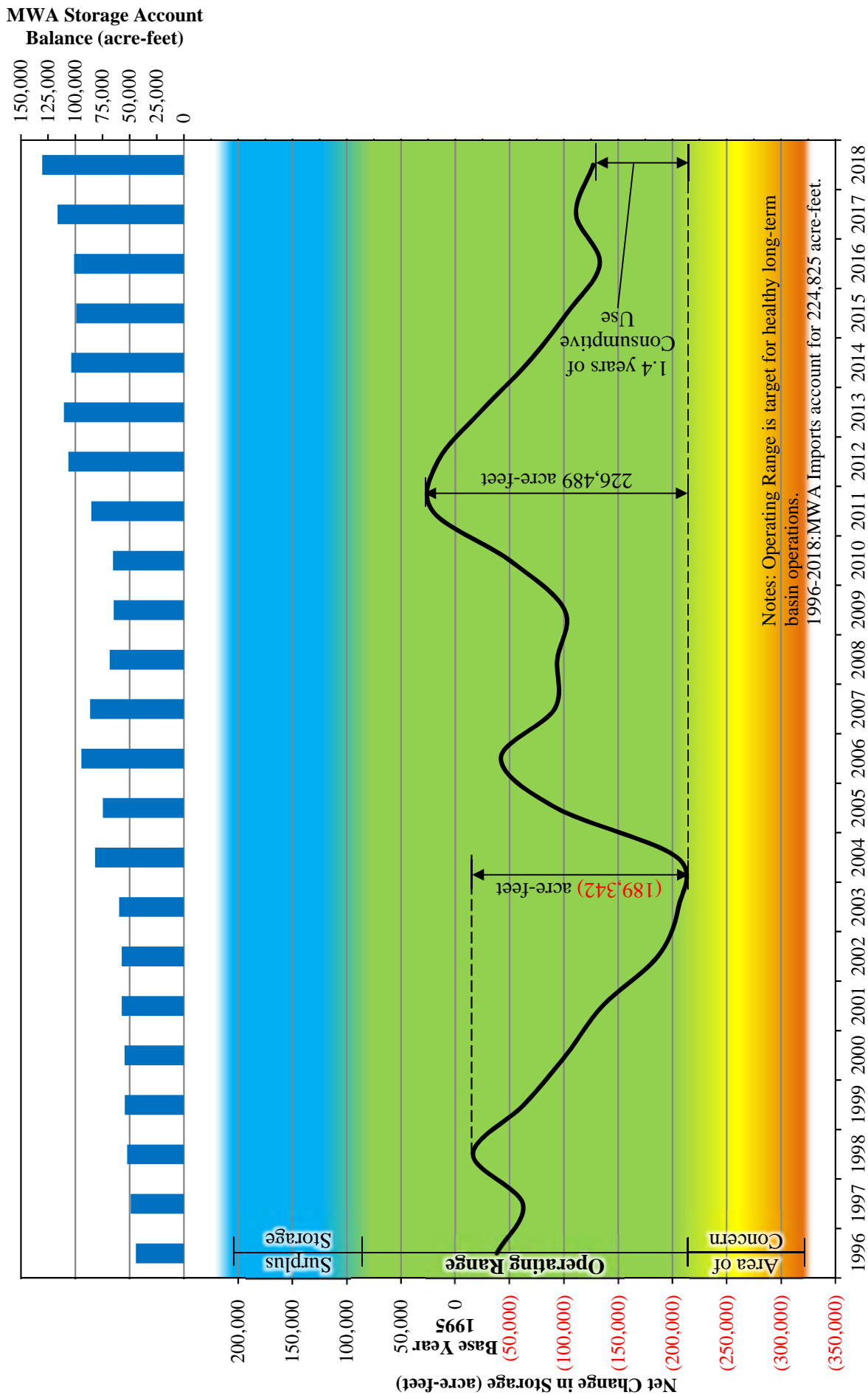
**ANNUAL CHANGE IN STORAGE BY SUBAREA  
WATER YEAR 2017-18  
(AMOUNTS IN ACRE-FEET)**

	<b><u>Este<sup>1</sup></u></b>	<b><u>Oeste<sup>2</sup></u></b>	<b><u>Alto</u></b>	<b><u>Centro</u></b>	<b><u>Baja</u></b>	<b><u>Total</u></b>
<b>Total Water Supply</b>	4,027	3,732	41,626	4,747	1,767	<b>55,899</b>
<b>Total Outflow and Consumptive Use</b>	4,027	3,732	57,496	21,033	26,199	<b>112,487</b>
<b>Net Change in Storage</b>	<b>0</b>	<b>0</b>	<b>(15,870)</b>	<b>(16,286)</b>	<b>(24,432)</b>	<b>(56,588)</b>

**Notes**

- 1. Water level data indicates little or no change in storage on an average annual basis; water supply is estimated to balance outflow and consumptive use.**
- 2. Short term water levels indicate balance supply and demand for the past 15-20 years. This condition is unstable as population and water demand is expected to increase.**

# Alto Subarea Net Change in Storage and MWA Storage Account Balance Water Years 1996 through 2018

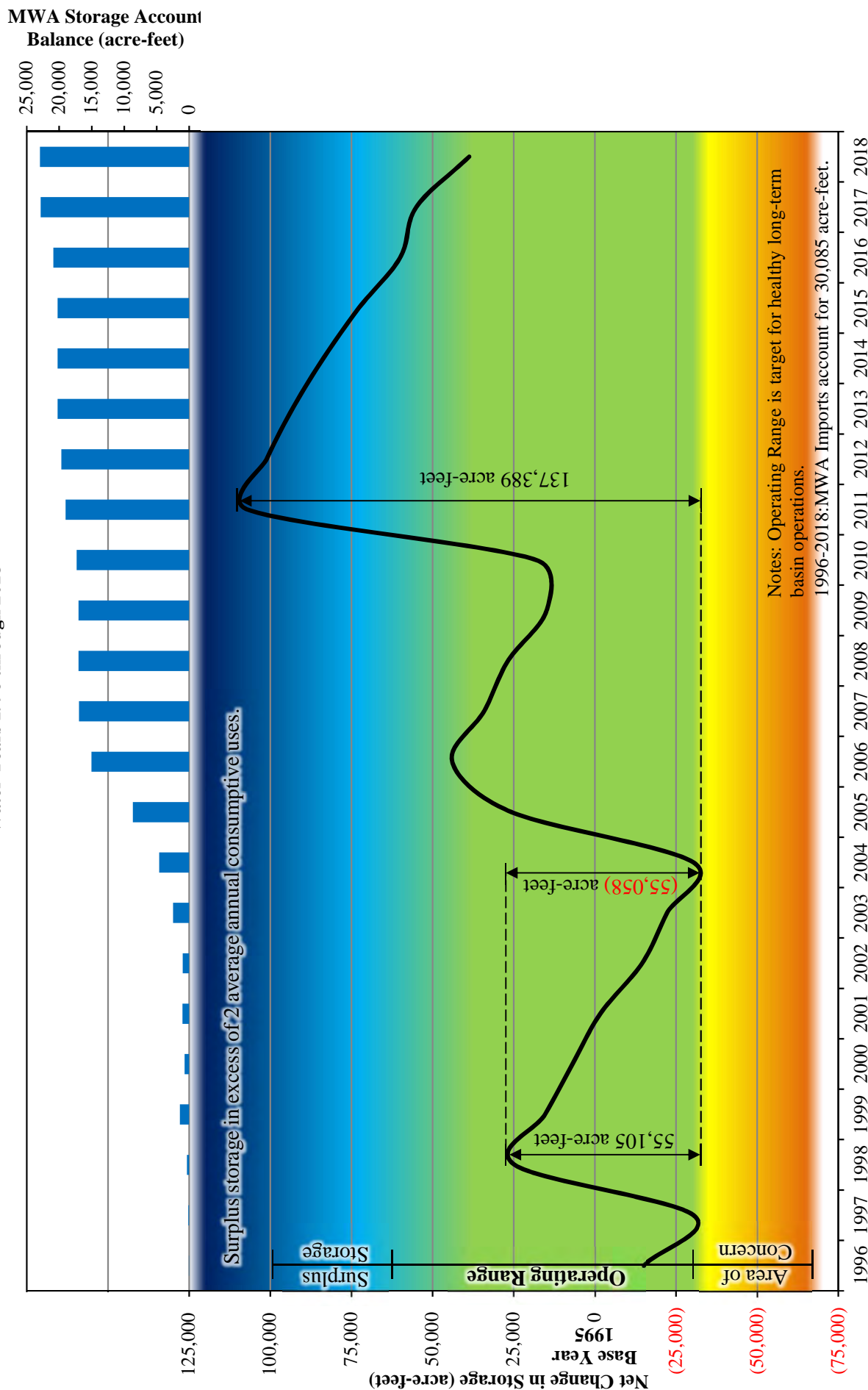


Operating range based on lowest amount in storage of -205,635af, during which the basin was considered to be healthy, plus a supply of 5 average annual consumptive uses, with an average annual consumptive use equating to 56,361 af from 1996 through present. Surplus Storage and Area of Concern each represent 2 average annual consumptive uses.  
Source: Consumptive Use for 1996-2011 per Robert C. Wagner, Watermaster Engineer. Consumptive Use for 2012-2017 based on analysis of individual producers, Robert C. Wagner, Watermaster Engineer, 2018.

FIGURE 3-18



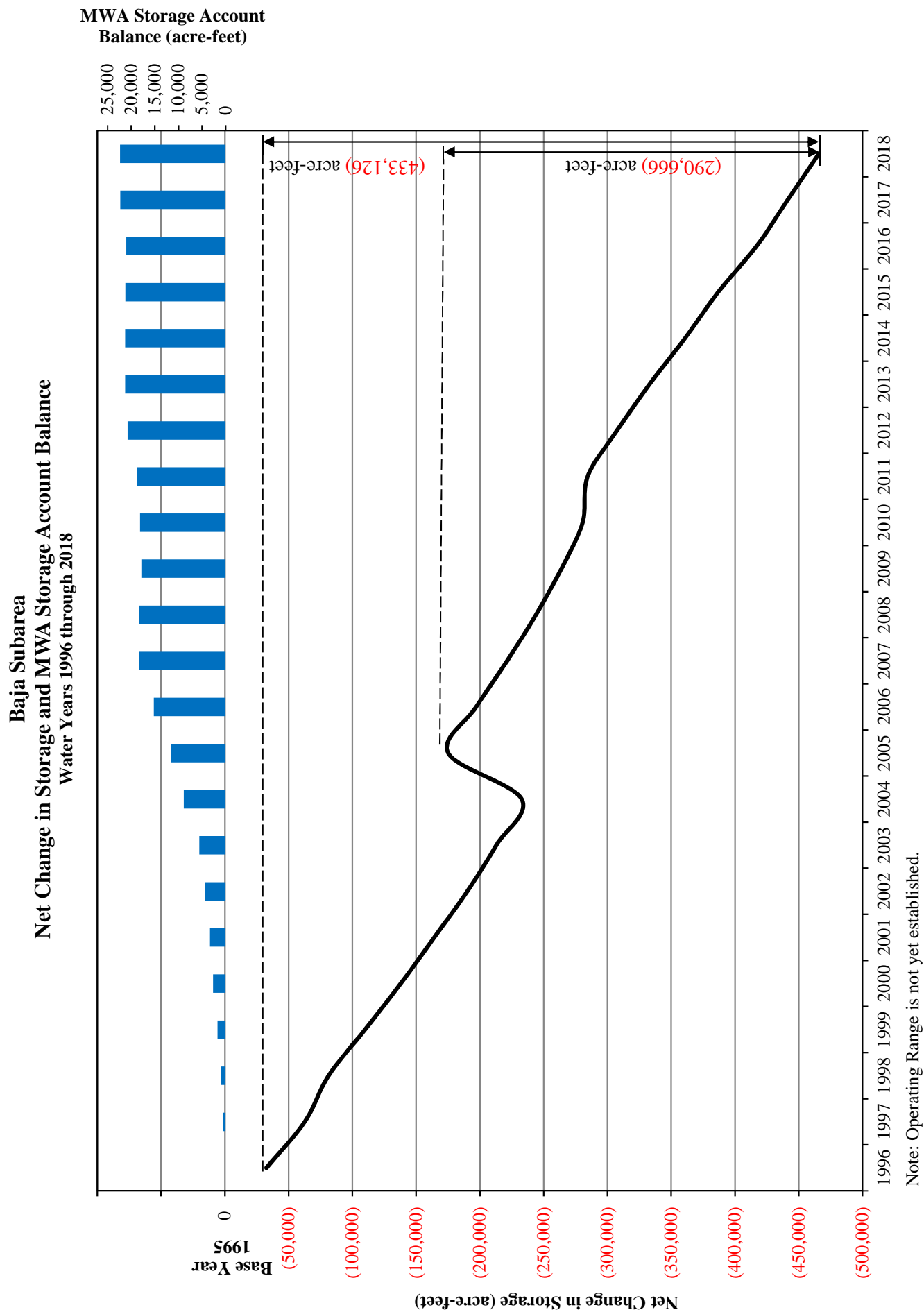
# Centro Subarea Net Change in Storage and MWA Storage Account Balance Water Years 1996 through 2018



Operating range based on lowest amount in storage of -30,407af, during which the basin was considered to be healthy, plus a supply of 5 average annual consumptive uses, with an average annual consumptive use equating to 18,430 af from 1996 through present. Surplus Storage and Area of Concern each represent 2 average annual consumptive uses.

Source: Consumptive Use for 1996-2011 per Robert C. Wagner, Watermaster Engineer. Consumptive Use for 2012-2018 based on analysis of individual producers, Robert C. Wagner, Watermaster Engineer, 2019.

FIGURE 3-19



Source: Consumptive Use for 1996-2011 per Robert C. Wagner, Watermaster Engineer. Consumptive Use for 2012-2018 based on analysis of individual producers, Robert C. Wagner, Watermaster Engineer, 2019.

FIGURE 3-20

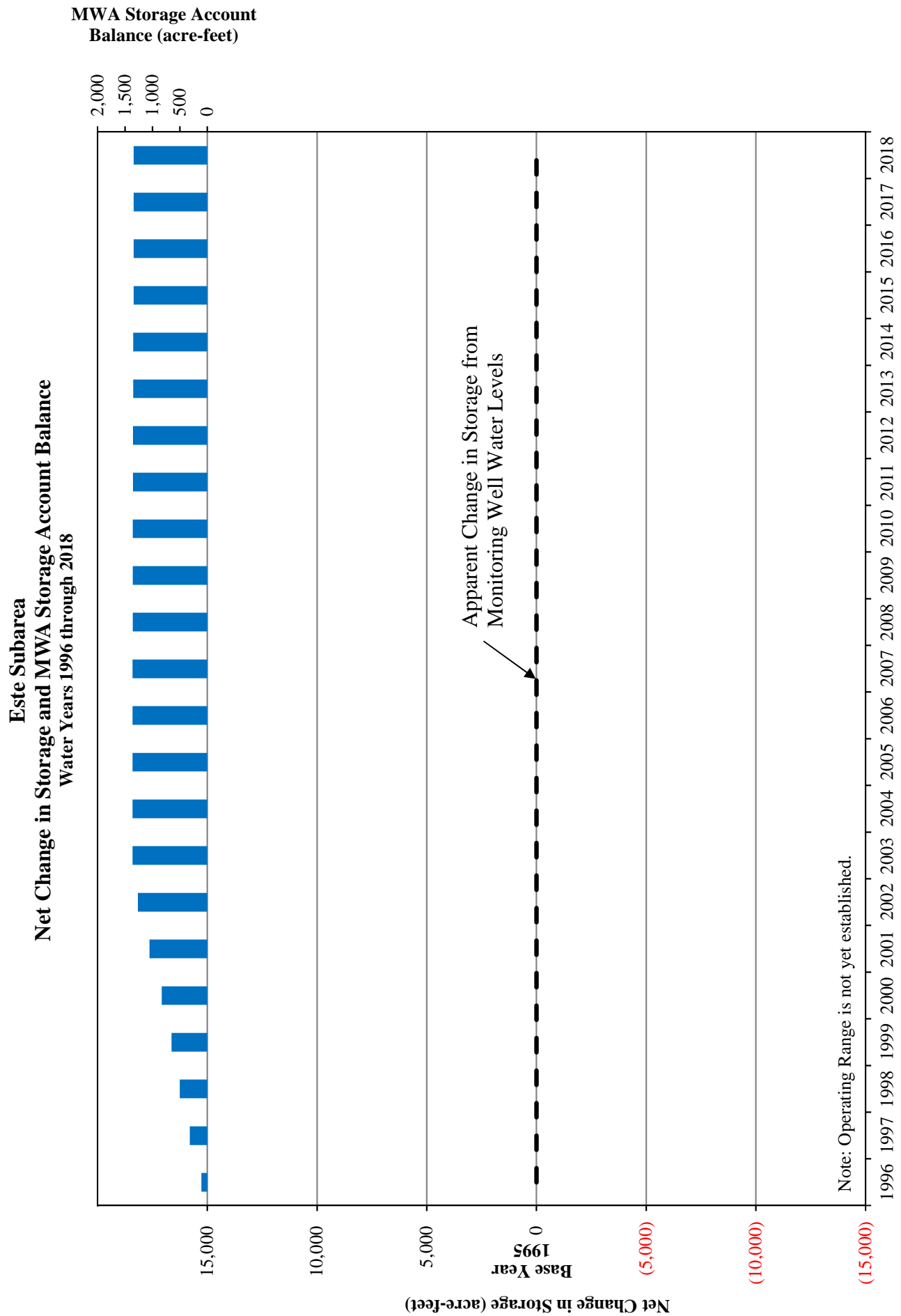


FIGURE 3-21

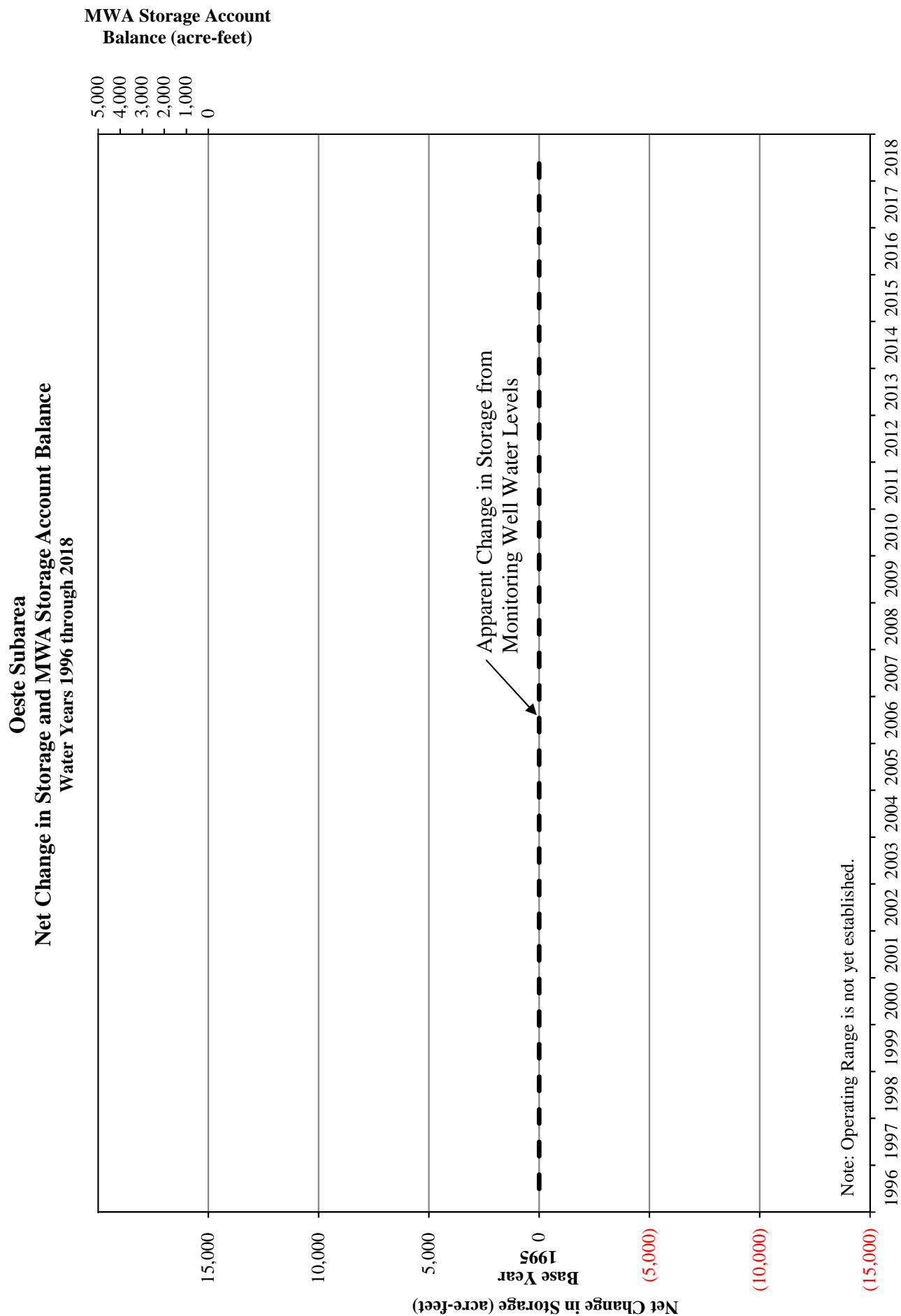


FIGURE 3-22

## **CHAPTER 4**

### **STATUS OF REPLACEMENT WATER AND MAKEUP WATER OBLIGATIONS**

Appendix B summarizes each Producer's Replacement Water and Makeup Water Obligations as well as any related assessments due and payable by July 1, 2019.

#### **Replacement Water**

Each Producer's Replacement Water Obligation in each Subarea was calculated by subtracting that Producer's 2017-18 share of FPA (plus any transferred or carryover FPA) from that Producer's verified production in 2017-18. Each Producer's Replacement Water Assessment was calculated by multiplying that Producer's Replacement Water Obligation by the 2017-18 Replacement Water Assessment Rate of \$578.00 per acre-foot. In lieu of paying Replacement Water Assessments, a Producer may satisfy a Replacement Water Obligation in a Subarea by acquiring another Producer's Unused FPA from 2017-18 in the same Subarea (subject to any consumptive use adjustments) and reporting such acquisition to the Watermaster on appropriate forms provided by the Watermaster not later than 30 days prior to the regularly scheduled Watermaster Meeting in May 2019. Unused FPA during 2017-18 for each Producer within each Subarea is set forth in Appendix B.

Table 4-1 summarizes the Replacement Water Obligations and Assessments and Unused FPA for 2017-18 in each Subarea.

**TABLE 4-1**

**SUMMARY OF REPLACEMENT WATER OBLIGATIONS  
AND  
REPLACEMENT WATER ASSESSMENTS FOR  
WATER YEAR 2017-18**

<b><u>Subarea</u></b>	<b><u>Replacement Water Obligations</u></b> (acre-feet)	<b><u>Replacement Water Assessments</u></b>	<b><u>Unused FPA</u></b> (acre-feet)
Este	394	\$227,732.00	15,138
Oeste	0	\$0.00	4,511
Alto	16,701	\$9,653,178.00	20,813
Centro	92	\$53,176.00	37,268
Baja	941	\$543,898.00	21,020
<b>Total</b>	<b>18,128</b>	<b>\$10,477,984.00</b>	<b>98,750</b>

**Makeup Water**

The Base Flow determination of 3,662 acre-feet prepared by the Watermaster Engineer was presented to the Watermaster at the regularly scheduled meeting January 23, 2019. Table 4-2 summarizes the flows credited to each Subarea obligation during Water Year 2017-18, the status of each Subarea at the end of the year and each minimum obligation for Water Year 2017-18. The Makeup Obligation from the Alto Subarea to the Centro Subarea for Water Year 2017-18 is 3,674 acre-feet. Table 4-3 shows the year over year Makeup Obligation from Alto to Centro beginning in Water Year 2008-09.

During the first ten years of implementation of the Judgment, the subsurface flow obligations between Subareas were assumed to be met. Subsequently, Watermaster revisited the subsurface flow assumptions in the Judgment and recommended no changes. Subject to continued monitoring, the Makeup Obligations are assumed to be met.

**TABLE 4-2**  
**STATUS OF SUBAREA OBLIGATIONS**  
**AT THE END OF WATER YEAR 2017-18**

Subareas	<u>Este</u>	<u>Oeste</u>	<u>Alto</u>	<u>Centro</u>	<u>Baja</u>
			Transition		
Obligation to	Alto	Alto	Zone	Baja	Afton
Average Annual Obligation in acre-feet	200	800	23,000	1,200	400
Status at Beginning of 2017-18					
Cumulative Obligation	4,800	19,200	552,000	28,800	9,600
Cumulative Flow	4,800	19,200	533,205	28,800	6,793
Net cumulative Credit (Debit)	0	0	(18,795)	0	(2,807)
Flow During 2017-18					
Base Flow	---	---	3,662	---	---
Subsurface Flow	200	800	2,000	1,200	249
Other Water	0	0	12,824	0	0
Makeup Water Purchased	<u>0</u>	<u>0</u>	<u>2,505</u>	<u>0</u>	<u>0</u>
<b>Total Flow</b>	<b>200</b>	<b>800</b>	<b>20,991</b>	<b>1,200</b>	<b>249</b>
Minimum Obligations for 2017-18	160	640	24,665	960	2,727
<b>Makeup Obligation Incurred</b>	<b>0</b>	<b>0</b>	<b>3,674</b>	<b>0</b>	<b>2,478</b>
Status at End of 2017-18					
Cumulative Obligation	5,000	20,000	575,000	30,000	10,000
Cumulative Flow	<u>5,000</u>	<u>20,000</u>	<u>554,196</u>	<u>30,000</u>	<u>7,042</u>
Net Cumulative Credit (Debit)	0	0	(20,804)	0	(2,958)
Minimum Obligation for 2018-19					
Annual Minimum	160	640	18,400	960	320
+ 1/3 of Cumulative Debit	0	0	6,935	0	986
+ Additional to reduce Cumulative Debit to Annual Obligation	0	0	0	0	1,572
Alternative Minimum for Alto <sup>1</sup>	---	---	---	---	---
<b>Minimum Obligation for 2018-19</b>	<b>160</b>	<b>640</b>	<b>25,335</b>	<b>960</b>	<b>2,878</b> <sup>2</sup>

1) Annual Minimum minus Cumulative Credit but not less than 15,000 acre-feet.

2) The accounting for the Baja Subarea Obligation is shown for illustrative purposes only. Pursuant to Paragraph 6 of Appendix G of the Judgment, subsurface flow obligations are assumed to have been met. Pursuant to the Court order dated 6/5/2006, Watermaster is relieved of evaluation of the subsurface flow from BAJA across the Mojave Water Agency administrative boundary about six miles upstream of Afton.

TABLE 4-3

**STATUS OF ALTO SUBAREA OBLIGATIONS  
WATER YEARS 2008-09 THROUGH 2017-18**

<b>Water Year</b>	<b><u>2008-09</u></b>	<b><u>2009-10</u></b>	<b><u>2010-11</u></b>	<b><u>2011-12</u></b>	<b><u>2012-13</u></b>	<b><u>2013-14</u></b>	<b><u>2014-15</u></b>	<b><u>2015-16</u></b>	<b><u>2016-17</u></b>	<b><u>2017-18</u></b>
Average Annual Obligation in acre-feet	23,000	23,000	23,000	23,000	23,000	23,000	23,000	23,000	23,000	23,000
Status at Beginning of Water Year										
Cumulative Obligation	345,000	368,000	391,000	414,000	437,000	460,000	483,000	506,000	529,000	552,000
Cumulative Flow	<u>322,253</u>	<u>345,161</u>	<u>370,609</u>	<u>398,148</u>	<u>423,651</u>	<u>447,286</u>	<u>468,411</u>	<u>490,268</u>	<u>511,465</u>	<u>533,205</u>
Net cumulative Credit (Debit)	(22,747)	(22,839)	(20,391)	(15,852)	(13,349)	(12,714)	(14,589)	(15,732)	(17,535)	(18,795)
Flow During Water Year										
Base Flow	4,093	5,849	10,149	8,829	7,325	6,227	5,418	4,851	4,031	3,662
Subsurface Flow	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000
Other Water	13,609	14,525	14,825	14,674	14,310	12,898	12,926	12,940	13,262	12,824
Makeup Water Purchased	<u>3,206</u>	<u>3,074</u>	<u>565</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>1,513</u>	<u>1,406</u>	<u>2,447</u>	<u>2,505</u>
<b>Total Flow</b>	<b>22,908</b>	<b>25,448</b>	<b>27,539</b>	<b>25,503</b>	<b>23,635</b>	<b>21,125</b>	<b>21,857</b>	<b>21,197</b>	<b>21,740</b>	<b>20,991</b>
Minimum Obligations	25,982	26,013	25,197	23,684	22,850	22,638	23,263	23,644	24,245	24,665
<b>Makeup Obligation Incurred</b>	<b>3,074</b>	<b>565</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,513</b>	<b>1,406</b>	<b>2,447</b>	<b>2,505</b>	<b>3,674</b>
Status at End of Water Year										
Cumulative Obligation	368,000	391,000	414,000	437,000	460,000	483,000	506,000	529,000	552,000	575,000
Cumulative Flow	<u>345,161</u>	<u>370,609</u>	<u>398,148</u>	<u>423,651</u>	<u>447,286</u>	<u>468,411</u>	<u>490,268</u>	<u>511,465</u>	<u>533,205</u>	<u>554,196</u>
Net Cumulative Credit (Debit)	(22,839)	(20,391)	(15,852)	(13,349)	(12,714)	(14,589)	(15,732)	(17,535)	(18,795)	(20,804)
Minimum Obligation for Next Year										
Annual Minimum	18,400	18,400	18,400	18,400	18,400	18,400	18,400	18,400	18,400	18,400
+ 1/3 of Cumulative Debit	7,613	6,797	5,284	4,450	4,238	4,863	5,244	5,845	6,265	6,935
+ Additional to reduce Cumulative Debit to Annual Obligation	0	0	0	0	0	0	0	0	0	0
Alternative Minimum <sup>1</sup>	---	---	---	---	---	---	---	---	---	---
<b>Minimum Obligation for Next Year</b>	<b>26,013</b>	<b>25,197</b>	<b>23,684</b>	<b>22,850</b>	<b>22,638</b>	<b>23,263</b>	<b>23,644</b>	<b>24,245</b>	<b>24,665</b>	<b>25,335</b>

1) Annual Minimum minus Cumulative Credit but not less than 15,000 acre-feet.



## **CHAPTER 5**

### **FREE PRODUCTION ALLOWANCE FOR WATER YEAR 2019-20**

Pursuant to paragraph 24 (o) of the Judgment After Trial dated January 10, 1996, the Watermaster is required to make a recommendation to the Court for adjusting the FPA of each Subarea, if necessary.

Exhibit H of the Judgment provides that in the event that the FPA exceeds the estimated Production Safe Yield (PSY) by five percent or more (of the Subarea BAP), Watermaster shall recommend a reduction in FPA equal to a full five percent of the aggregate Subarea BAP.

As part of the FPA review, we have prepared a preliminary update to the Production Safe Yield for each Subarea. Previously, as required by the Judgment, PSY was updated in August 2000 by Albert A. Webb and Associates. The consumptive use and PSY are defined by the Judgment as follows:

- Production Safe Yield - The highest average Annual Amount of water that can be produced from a Subarea: (1) over a sequence of years that is representative of long-term average annual natural water supply to the Subarea net of long-term average annual natural outflow from the Subarea, (2) under given patterns of Production, applied water, return flows and Consumptive Use, and (3) without resulting in a long-term net reduction of groundwater in storage in the Subarea.
- Consumption or Consumptive Use - The permanent removal of water from the Mojave Basin Area through evaporation or evapo-transpiration.

Periodic updates to PSY are necessary to capture changes in land use that may occur over time. Irrigation patterns, cropping, general land uses, consumptive use of water, patterns of return flow for example affect PSY. In general, the long-term average annual supply is based on the period 1930-31 to 1989-90. The PSY update is primarily focused on changes in consumptive uses from those reported by Webb 2000. The consumptive use is evaluated by the Watermaster engineer and staff annually and reported in the State of the Basin section in Chapter 3 of this report. Consumptive use is important because it is used to estimate return flow. Return flow is the difference between water production for a particular use and the estimated consumptive use of the production. Return flow is therefore considered part of the water supply.

The current PSY estimate includes long-term hydrology as specified in the Judgment, consumptive uses for 2017-18, phreatophyte use as indicated in the Judgment, Subarea subsurface obligations and surface obligations between Alto and Centro (there are no other surface obligations in the Judgment). Table 5-1 shows the current PSY calculation.

The following table shows the current FPA for each Subarea and the estimated PSY based on the updated consumptive use analysis by the Watermaster engineer for 2017-18 and the proposed Production Safe Yield update as shown on Table 5-1.

<b><u>Subarea</u></b>	<b><u>Base Annual Production</u></b>	<b><u>2018-19 FPA</u></b>	<b><u>Production Safe Yield</u></b>	<b><u>Percent Difference<sup>1</sup></u></b>	<b><u>2017-18 Verified Production</u></b>
Alto	116,412	72,645	64,406	7.1%	74,317
Baja	66,157	24,682	12,189	18.9%	22,296
Centro	51,030	41,155	21,088	39.3%	19,112
Este	20,205	16,376	4,728	57.6%	4,101
Oeste	7,095	5,725	1,712	56.6%	3,706

<sup>1</sup>This value represents the percent of BAP that PSY departs from FPA.

In addition to comparing FPA and PSY there is consideration of such factors such as long-term water level trends in a Subarea and the magnitude of total Subarea pumping reduction in relation to the available supply.

The Judgment provides that producers can pump, without replacement water obligations to Watermaster an amount up to the producers' share of the Subarea FPA. Producers who pump in excess of their FPA are required to buy replacement water from Watermaster or purchase unused FPA from another party in the Subarea. The transfer provision of the Judgment, one of the fundamental underpinnings, allows producers who chose to not pump to sell FPA to those parties who over-pump. This provision allows parties who stipulated to the Judgment the option of compensation in lieu of pumping. The transfer market is a means of equitably allocating the limited supply within a Subarea.

The following summarizes the status of each Subarea and provides the recommendation for setting FPA for Water Year 2019-20.

<b><u>Subarea</u></b>	<b><u>2019-20 FPA Recommendation</u></b>
Alto - Agriculture	80% of BAP
Alto - Municipal & Industrial	55% of BAP
Baja	30% of BAP
Centro	80% of BAP
Este <sup>1</sup>	80% of BAP
Oeste	75% of BAP

1. FPA to be set at 80% of BAP for the 2019-20 Water Year. The Este Subarea may be subject to future Rampdown to 65% immediately if water use conditions change.

**Alto – 55% of BAP for M&I  
80% of BAP for Agriculture**

FPA in Alto exceeds the estimated PSY by more than 5% of BAP (7.1%). Additionally, there is an indicated annual deficit of 13,280 acre-feet (Table 5-1). As discussed below, water levels have been relatively stable in Alto and the Transition Zone; however, there are indications of potential problems, for example, declining base flow at Lower Narrows and some water level declines.

Alto is directly connected to the Centro Subarea and the Mojave River as the river flows from its headwaters in the south near Forksite Dam, through Alto, Transition Zone, Centro and Baja to the basin outlet at Afton. The Judgment provides that the Alto Subarea maintain a minimum base flow obligation between Alto and Centro (Judgment After Trial, 1996, Exhibit G). This obligation is equal to the long-term average base flow, as determined at the Mojave River Lower Narrows gaging station, of 21,000 acre-feet per year plus 2,000 acre-feet of subsurface flow. There is a detailed accounting of the obligation in the Watermaster annual reports on tables 4-2 and 4-3. As indicated on those tables, the obligation from Alto to Centro has been met. There is no such obligation in the Judgment between Alto and Baja, or Centro and Baja.

Figure 3-10 shows the water balance for the Transition Zone (TZ) from 1991-2018. The TZ is the area of Alto that lies between the Lower Narrows Mojave River, and the Helendale Fault, the boundary between Alto and Centro. The TZ was intended by the Judgment to function so as provide the same historical flow on a long-term basis to Centro, from Alto as occurred prior to adjudication. Since there is no measurement of outflow from the TZ at Helendale Fault, obligations under the Judgment between Alto and Centro are reckoned in the TZ and include base flow determined at the USGS Lower Narrows gaging station and wastewater discharged by Victor Valley Wastewater Reclamation Authority (VWWRA). As shown on Table 3-10, total discharge

to Centro including make-up obligation purchases has averaged 37,300 acre-feet since 1991 and 36,700 between 1931-1990.

Producers in the Alto Subarea have reduced water production from about 98,900 acre-feet in 1990 to 77,686 acre-feet in 2018. Population in Alto in 1990 was 165,100, which grew to 346,665 by 2015, and is projected to reach 371,356 by 2020 (Beacon Economics, 2015, Appendix 2). Prior to 1990, most pumping in Alto was for agriculture. In the past 28 years while population has more than doubled, water production has been reduced by 21.4%.

Water levels in Alto have been relatively stable, although some indications of water levels trending downward is apparent in some wells. The TZ wells indicate long-term stability. The stability can be attributed to factors such as implementation of the Judgment by reducing Alto Free Production Allowance by 40% of the Base Annual Production (FPA = 60%), reduced pumping due to conservation and water purchases by MWA totaling 233,867 acre-feet. Replacement water purchases by parties to the Judgment in Alto totaled about 115,362 acre-feet since 1996.

Water levels within Alto can vary over time and are in part dependent on climate. The past seven Water Years (2012-2018) have been drier than average (average flow at the Forks for 2012-2018 has been 30% of the 1931-2018 average). Consequently, water levels in the upper portion of Alto are demonstrating declines due to lack of inflow from precipitation in the mountains. We expect that water levels will recover in wetter years.

Base flow at Lower Narrows has declined consistent with the drier than average water supply at the Forks over the past seven years. Base flow has declined from 8,829 acre-feet in 2011-12 to 3,662 acre-feet in 2017-18 (58%). The decline indicates less water rising to the surface from within the aquifer system in Alto, indicating pumping in Alto above Lower Narrows exceeds annual supply.

The Judgment's purpose is to balance supply and demand and allocate the cost to parties that over pump FPA. The purpose of Rampdown is not to cause a reduction in pumping but a reduction in FPA to cause imported water supply to be purchased to offset deficits. Webb 2000 estimated the annual deficit in Alto to 20,900 acre feet; the indicated deficit in 2018 is 13,280 acre-feet. The reduction in deficit can be attributed to reduced pumping, reduced consumptive uses, conversion of agriculture to M&I and Replacement Water purchases. The apparent stability in water levels over the past 10 plus years is a function of reduced pumping and imported water purchases by MWA in addition to Replacement Water purchases. However, under the conditions

that now exist, in order to maintain stability and future sustainability, continued management under the terms of the Judgment is necessary.

The Judgment was intended to be a financing mechanism to raise funds to buy imported water in the form of replacement obligations, to offset deficits and thereby provide sustainability. Watermaster should take steps now to begin eliminating the deficit in Alto, prior to water levels falling on a continuous basis. Therefore, it is recommended that a 5% reduction in FPA for M&I producers for Water Year 2019-20 be implemented.

### **Baja – 30% of BAP**

FPA in Baja exceeds PSY by more than 5% of BAP (18.9%). Overdraft continues as water levels continue to fall. The reason for the continuous decline is due to pumping in excess of supply. The Baja producers have regularly raised questions about the effects of upper basin pumping, upper basin population growth, and interference with the river flow, by flood control dams, as the reasons for overdraft in Baja. These issues have been investigated both in response to the Baja producers and by order of the Court. Between 2003 and 2008 we had numerous meetings with Baja producers to discuss these issues. Additionally, the topic was discussed at multiple Watermaster and MWA Board meetings in response to the Baja producers.

In December 2005, Judge Kaiser ordered Watermaster to investigate what became known as “Items 6 (a)-(f)” to address these topics. Watermaster attended meeting and addressed each item individually with the Baja Subarea Advisory Committee. Prior to finalizing the investigation into Items 6 (a)-(f) a workshop was held in Baja in March of 2008. The results of the investigations were submitted to the Court on June 2, 2008. Judge Trask wrote on September 8, 2008 that Watermaster had adequately answered the Court’s questions and no further investigation was required.

The Baja Recreational Lakes retained the services of Dr. Richard Laton who has asserted that the upper region owes Baja water. Laton cites Todd Engineers (2013), who cites USGS, as the source for this obligation.

The USGS reported the results of a groundwater model scenario that restricted all pumping from the upper region (Alto, Este, Oeste) and allowed historic pumping to occur in the lower region (Centro and Baja) during the model period of 1931-1990 (Stamos et al., 2001). The USGS concluded that under such a model scenario, there would be less storage depletion in Baja (3,230 acre-feet/yr.) as compared to the baseline condition (Stamos et al., 2001, pg. 92). USGS estimated

14,490 acre-feet per year depleted from storage in Baja under the base line condition and 11,260 acre-feet per year under the model assumption of no upper region pumping. (Storage depletion is the removal of water from the groundwater basin, effectively overdraft). It should be noted that the model scenario was a simulation that did not reflect the realities of pumping or entitlements before or after the adjudication. This scenario was an exercise and was not intended to address water supply allocations to Baja.

Neither the USGS (Stamos et al., 2001) nor Todd Engineers (2013) commented as to whether or not Baja was entitled to such a condition (no pumping in the upper region) and did not comment as to the requirements of any obligation of the upper region to Baja. There is no basis under the Judgment to establish an obligation to Baja assuming that there is no pumping of water by upstream Subareas. The 3,230 acre-feet/yr of *simulated reduced depletion* exists only if the upper region never pumped and the lower region pumped in a state of overdraft for 60 years, thereby inducing additional recharge. The lower region would have been severely overdrafted anyway. The effects of this *simulated reduced recharge* is an artificial benefit to the lower region (Baja). Assuming that Baja was *prioritized* over the upper region for water supply the result would still have been about 900,000 acre-feet of overdraft between 1931 and 1999 and an additional 400,000 acre-feet since then.

The effects of the overdraft in Baja were apparent decades ago. Hardt (1971) reports that phreatophyte use (water used by native vegetation) in Baja was 8,000 acre-feet in 1930, and 5,900 acre-feet in 1963 (Hardt, Table 5, pg. 43). By the time Judgment was entered in 1996 phreatophyte use was estimated to be about 2,000 acre-feet in Baja. It is likely that this value is now far lower.

The effects of long-term overdraft on the Baja resources continue. USGS, and the California Department of Fish and Wildlife (formerly Fish and Game) (Lines and Bilhorn 1996), reported “many areas that were once lush with vegetation, such as upgradient of the Calico-Newberry Fault and near Camp Cady, now barely support even the heartiest desert plants” (Stamos et al., 2001, pg. 43). Baja overdraft has resulted in the elimination of sensitive southwest desert riparian habitat, the mobilization of sediments (blow sand) and reduction in surface outflow at Afton and elimination of surface base flows at Afton that supported desert habitat in that area. The California Department of Fish and Wildlife continues to express its concern for health of the habitat at Camp Cady in Baja.

Available recharge to Baja has not changed significantly. Water supply from stream recharge in Baja during the period 1931-1968 was 7,000 acre-feet (Hardt 1971, Table 1, pg. 16).

Pumping in Baja as of 1968 exceeded stream recharge by 600%. Stream recharge for the period 1968 to 2018 averaged about 7,000 acre-feet (7,188 acre-feet) based on estimated flow at Waterman Fault (boundary from Centro to Baja), and flow at Afton. Average stream recharge during the period 1931-2018 has been about 7,000 acre-feet (6,924 acre-feet).

In 2006, Watermaster reported to the Court that the Subarea obligation between Centro and Baja of 1,200 acre-feet per year was being met. Baja Recreational Lakes' consultant, Dr. Laton, prepared a report for Mojave Water Agency in October 2005 in which he reported that water levels in Centro had been stable for 15 years and that downward water level trends in Baja were the result of excess pumping in Baja. Dr. Laton wrote in 2005:

*“Historical groundwater flow direction for the study area is from Centro Hydrologic Subarea to Baja Hydrological Subarea. Groundwater levels have been stable across the Centro Subarea with only minor fluctuations over the past 15 years (since 1990). The Baja Subarea has seen a trend in water levels downward since the late 1950's to early 1960's. The two Subareas are divided by the Harper Lake fault. Since, Centro has seen no substantial change in water levels then it can be said that no change in flow across the Subarea boundary has occurred. The downward trend in water levels in the Baja Subarea can be attributed to excess pumping of groundwater on the downside gradient of the fault.*

*“The range in gradients was from a low of 0.0045 ft/ft in 1960 to a high of 0.0050 ft/ft in 2004. This registered change is within the calculated error of the analysis ( $\pm 0.0004$  ft/ft). Overall, the change in gradient from 1993 to 2004 is negligible, thus no major change in gradient magnitude or direction is observed.”*

Recent work by the Watermaster Engineer estimated the gradient based on water level data shown on the USGS Regional Water Table Map for 2016. The gradient was estimated along the same line depicted in the Laton report and was about 0.0053 (feet per foot), consistent with prior estimates. It was concluded, as in 2006, that the flow across the boundary has not changed and that the subsurface obligation between Centro and Baja is being met. Watermaster updated the subsurface flow amount attributed to the obligation to be consistent with the USGS modeled output for subsurface flow between Centro and Baja (1,581 acre-feet).

Based on the foregoing it is recommended that a 5% reduction in FPA for Baja for Water Year 2019-20 be implemented.

### **Centro – 80% of BAP**

FPA exceeds PSY in Centro by more than 5% of BAP (39.3%). Water levels indicated in wells near the Centro-Baja boundary (near Waterman Fault) are close to the same level indicated 25 years ago. This follows seven consecutive dry years with limited rainfall and runoff. The water

levels fall during periods of below average rainfall and recover in wet years. It is expected that this trend will continue. In the area near the Hodge and Lenwood recharge sites wells indicate a pattern of falling during dry years and recovering rapidly in wet years. However, it should be noted that at least two wells (09N03W23F01-4, near Hodge, and 09N02W6L11-14, near Lenwood) show a pattern of lower lows following extended dry periods.

In the Lenwood area there is concentrated pumping by large agricultural producers, Golden State Water Company (GSWC) and Pacific Gas and Electric (PG&E). There is also agricultural production near Hodge. In 2017-18, 11,185 acre-feet was pumped by eight producers in this area, representing 58.5% of the verified water pumped in Centro.

PG&E has expressed concern that their Chromium 6 clean-up operations in the Hinkley area could be impacted by local pumping and falling water levels. It is expected that the water levels indicated by the two wells near Hodge and Lenwood will recover again following storm events. Two possible solutions to avoid potential longer term problems are: 1) spread out the pumping stress in time and space, 2) consider recharge of supplemental water in these areas.

Total water production, including minimal producers in Centro (20,665 acre-feet) is about equal to the updated Production Safe Yield estimate (21,088 acre-feet). Additional Rampdown in Centro would not immediately solve what appears to be a localized issue. The reduction of FPA in Centro however would begin to reduce Carryover and eventually cause water to be purchased and delivered to the recharge sites. Importing supplemental water to this area would help mitigate impacts due to localized heavy pumping. Watermaster and the Centro parties should consider reducing FPA commencing in Water Year 2020-21 or, alternatively, the Centro parties should consider ways to reduce the concentrated pumping stress in the subject area. At this time, we do not recommend a reduction in the Centro FPA for Water Year 2019-20.

#### **Este – 80% of BAP**

FPA in Este exceeds the estimated PSY by more than 5% of BAP (57.6%). The water levels in Este remain stable as water production has declined. Water production has declined in Este from 15,700 acre-feet in 1990 to 4,101 in 2018. The Este producers continue to acknowledge that Rampdown could be implemented at 65% should data indicate this is necessary. At this time, a reduction in the Este Subarea FPA is not recommended for 2019-20. Watermaster will continue to evaluate Este annually.



**Oeste – 75% of BAP**

FPA exceeds PSY in Oeste by more than 5% of BAP (56.6%). Previous Watermaster recommendations approved by the Court, set FPA in Oeste at 60% of BAP for M&I producers and 80% of FPA for agricultural producers. Water levels in Oeste exhibit a downward trend over time. It should be noted that variability in water levels rising and falling over the past 15 years but trending down as water production exceeds supply. As population increases water demand, we expect water level decline to accelerate consistent with overdraft. It is the recommendation to place all Oeste producers on a path to long-term sustainability by reducing FPA in 5% increments, consistent with the Judgment.

**--SAMPLE CALCULATION--  
TABLE C-1 OF JUDGMENT**

**Mojave Basin Area Adjudication  
Subarea Hydrological Inventory Based On  
Long-Term Average Natural Water Supply and Outflow  
and Current Year Imports and Consumptive Use  
(All Amounts in Acre-Feet)**

<b>WATER SUPPLY</b>	<b><u>Este</u></b>	<b><u>Oeste</u></b>	<b><u>Alto</u></b>	<b><u>Centro</u></b>	<b><u>Baja</u></b>	<b><u>Basin Totals</u></b>
Surface Water Inflow						
Gaged	0	0	65,000	0	0	65,000
Ungaged	1,700	1,500	3,000	37,300 <sup>1</sup>	14,300 <sup>2</sup>	6,500 <sup>3</sup>
Subsurface Inflow	0	0	1,000	2,000	1,200	0 <sup>4</sup>
Deep Percolation of Precipitation	0	0	3,500	0	100	3,600
Imports						
Lake Arrowhead CSD	0	0	1,500	0	0	1,500
Big Bear ARWWA	<u>2,000</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>2,000</u>
<b>TOTAL</b>	<b>3,700</b>	<b>1,500</b>	<b>74,000</b>	<b>39,300</b>	<b>15,600</b>	<b>78,600</b>
<b>CONSUMPTIVE USE AND OUTFLOW</b>						
Surface Water Outflow						
Gaged	0	0	0	0	8,200	8,200
Ungaged	0	0	37,300 <sup>1</sup>	14,000 <sup>5</sup>	0	0
Subsurface Outflow	200	800	2,000	1,200	0	0
Consumptive Use						
Agriculture	6,800	2,900	16,300	20,300	30,200	76,500
Urban	1,900	1,200	36,300	9,500	9,700	58,600
Phreatophytes	0	0	5,100	900	1,500	7,500 <sup>6</sup>
Exports	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
<b>TOTAL</b>	<b>8,900</b>	<b>4,900</b>	<b>97,000</b>	<b>45,900</b>	<b>49,600</b>	<b>150,800</b>
 Surplus / (Deficit)	 (5,200)	 (3,400)	 (23,000)	 (6,600)	 (34,000)	 (72,200)
Total Estimated Production (Current Year) <sup>7</sup>	<u>15,700</u>	<u>7,600</u>	<u>98,900</u>	<u>46,500</u>	<u>54,300</u>	<u>223,000</u>
 <b>PRODUCTION SAFE YIELD (Current Year) <sup>7</sup></b>	 <b>10,500</b>	 <b>4,200</b>	 <b>75,900</b>	 <b>39,900</b>	 <b>20,300</b>	 <b>150,800</b>

<sup>1</sup> Estimated from reported flows at USGS gaging station, Mojave River at Victorville Narrows.

<sup>2</sup> Includes 14,000 acre-feet of Mojave River surface flow across the Waterman Fault estimated from reported flows at USGS gaging station, Mojave River at Barstow and 300 acre-feet of local surface inflow from Kane Wash.

<sup>3</sup> Represents the sum of Este (1,700 af), Oeste (1,500 af), Alto (3,000 af) and Baja (300 af from Kane Wash).

<sup>4</sup> Inter subarea subsurface flows do not accrue to the total basin water supply.

<sup>5</sup> Estimated from reported flows at USGS gaging station, Mojave River at Barstow.

<sup>6</sup> Estimated by Bookman-Edmonston.

<sup>7</sup> For purposes of this Table, the current year is 1990.

**TABLE 5-1**

**SUBAREA HYDROLOGICAL INVENTORY BASED ON  
LONG TERM AVERAGE NATURAL WATER SUPPLY AND OUTFLOW  
AND 2017-18 IMPORTS AND CONSUMPTIVE USE**

(ALL AMOUNTS IN ACRE-FEET)

<b>WATER SUPPLY</b>	<b><u>Este</u></b>	<b><u>Oeste</u></b>	<b><u>Alto</u></b>	<b><u>Centro</u></b>	<b><u>Baja</u></b>	<b><u>Basin Totals</u></b>
Surface Water Inflow	1,700	1,500	68,500 <sup>1</sup>	33,600 <sup>2</sup>	17,358 <sup>3</sup>	72,652 <sup>4</sup>
Subsurface Inflow	0	0	1,000	2,000	1,581 <sup>5</sup>	0 <sup>6</sup>
Deep Percolation of Precipitation	0	0	3,500	0	100	3,600
Imports <sup>7</sup>	2,000	0	2,234	2,262	0	6,496
<b>TOTAL</b>	<b>3,700</b>	<b>1,500</b>	<b>75,234</b>	<b>37,862</b>	<b>19,039</b>	<b>82,748</b>
<b>CONSUMPTIVE USE AND OUTFLOW</b>						
Surface Water Outflow	0	0	33,600 <sup>2</sup>	16,406 <sup>8</sup>	5,372 <sup>9</sup>	5,372
Subsurface Outflow	200	800	2,000	1,581 <sup>5</sup>	0	0
Consumptive use						
Agriculture <sup>10</sup>	2,327	1,208	1,311	8,895	17,664	31,405
Urban <sup>10,11</sup>	1,500	1,724	40,603	7,557	6,338	57,722
Phreatophytes	0	0	11,000	3,000	2,000	16,000 <sup>12</sup>
<b>TOTAL</b>	<b>4,027</b>	<b>3,732</b>	<b>88,514</b>	<b>37,439</b>	<b>31,374</b>	<b>110,499</b>
Surplus / (Deficit)	(327)	(2,232)	(13,280)	423	(12,335)	(27,751)
Total Estimated Production <sup>13</sup>	5,055	3,944	77,686	20,665	24,524	131,874
<b>PRODUCTION SAFE YIELD <sup>14</sup></b>	<b>4,728</b>	<b>1,712</b>	<b>64,406</b>	<b>21,088</b>	<b>12,189</b>	<b>104,123</b>

<sup>1</sup> Average discharge of Mojave River at The Forks, 1931-1990 (The Forks is the addition of reported values from USGS stations at West Fork Mojave River Near Hesperia, CA (10261000) and Deep Creek Near Hesperia, CA (10260500). Includes 3,000 af of ungaged inflow (Judgment, 1996).

<sup>2</sup> Estimated based on reported flows at USGS gaging station, Mojave River at Victorville Narrows and 1991-2018 Transition Zone water balance (Watermaster Engineer, 2019).

<sup>3</sup> Estimated from reported flows at USGS gaging station, Mojave River at Barstow. Includes 16,406 af of Mojave River surface flow across the Waterman Fault estimated by "Evaluations of Potential Mojave River Recharge Losses between Barstow and Waterman Fault", Wagner & Bonsignore, 2012 (see Appendix A, Table 6), and 747 af of local surface inflow from Kane Wash and Boom Creek, and 205 af from washes (Wagner, 2011).

<sup>4</sup> Represents the sum of Este (1,700 af), Oeste (1,500 af), Alto (68,500 af) and Baja (747 af from Kane Wash and Boom Creek, 205 af from washes).

<sup>5</sup> Stamos, 2001 (USGS).

<sup>6</sup> Inter subarea subsurface flows do not accrue to the total basin water supply.

<sup>7</sup> Imports for Este are from the Big Bear Area Regional Wastewater Authority; Alto are from Lake Arrowhead Community Services District and pre-purchased groundwater storage for HDPP; Centro are the average make-up water purchases, 1995-2018.

<sup>8</sup> Estimated from reported flows at USGS gaging station, Mojave River at Barstow (see note #2 above).

<sup>9</sup> Based on USGS station Mojave River at Afton, CA (10263000) reported discharge for 1931, 1953-2018. Water Years 1979 and 1980 estimated by Mojave Basin Area Watermaster.

<sup>10</sup> 2018 Consumptive Use Analysis by Watermaster.

<sup>11</sup> Includes consumptive use of "Minimals Pool" (estimated Minimal's production is 7,077 af).

<sup>12</sup> From USGS Water-Resources Investigation Report 96-4241 "Riparian Vegetation and Its Water Use During 1995 Along the Mojave River, Southern California" 1996.

<sup>13</sup> Water production for 2017-18. Included in the production values are the estimated minimal producer's water use by Subarea.

<sup>14</sup> Imported State Water Project water purchased by MWA is not reflected in the above table.

## CHAPTER 6

### FINANCIAL REPORT PROPOSED BUDGET AND ASSESSMENT RATES

#### Income Statement - Balance Sheet Summary

	<u>2017</u>	<u>2018</u>
Operating Revenue	\$ 556,395.00	\$ 628,328.00
Operating Expenses	463,091.00	497,210.00
Non-operating Revenue (Expense)		
Investment Earnings	49,529.00	(35,418.00)
Miscellaneous	0.00	0.00
<b>Change in Net Assets</b>	<b>\$ 142,833.00</b>	<b>\$ 95,700.00</b>

The Auditor's Report for Fiscal Year 2017-18 ending June 30, 2018 is presented in Appendix G and includes a summary of the significant categories of receivables and other current assets.

#### Biological Resources Trust Fund Summary

The Biological Resources Trust Fund balance as of June 30, 2018 was \$711,337.00.

#### Administrative Budget for 2019-20

The Administrative Budget for 2019-20 is \$510,467 and is shown on Table 6-1.

#### Summary of Makeup Water Purchases

The Watermaster purchased 9 acre-feet of Makeup water during the 2017-18 Water Year for the Centro Subarea.

### **Summary of Replacement Water Purchases**

Replacement water purchases by Watermaster during 2017-18 are as follows:

Alto <sup>1</sup>	1,286	acre-feet
Baja	49	acre-feet
Centro	21	acre-feet
Este	0	acre-feet
Oeste	0	acre-feet
<b>Total</b>	<b>1,356</b>	<b>acre-feet</b>

<sup>1</sup> 6 acre-feet of Alto Replacement water was pre-purchased under the MWA Claim Program. 1,227 acre-feet was pre-stored under a storage agreement.

### **Administrative and Biological Assessment Rates for 2019-20**

The Administrative and Biological Assessment Rates for 2019-20 adopted by the Watermaster on March 28, 2018 are as follows:

Administrative	\$ 3.55 per acre-foot of Production
Biological Resources	\$ 0.95 per acre-foot of Production

### **Projected Replacement and Makeup Water Assessment Rates for 2018-19 and 2019-20**

The Replacement and Makeup Water Assessment Rates projected by the Watermaster on March 27, 2019 are as follows:

#### Replacement and Makeup Water Rate

2018-19	<i>Not to Exceed</i> \$636.00 per acre-foot <sup>1</sup> (Invoice Date 6-1-2020)
2019-20	\$661.00 per acre-foot (projected) <sup>2</sup> (Invoice Date 6-1-2021)

<sup>1</sup> This rate is for obligations incurred in the 2018-19 Water Year which will be billed in June 2020. The fixed rate that will be used for invoicing will be determined by the Mojave Water Agency in February 2020.

<sup>2</sup> This is a projected rate for obligations incurred in the 2019-20 Water Year which will be billed in June 2021. The fixed rate that will be used for invoicing will be determined by the Mojave Water Agency in February 2021.

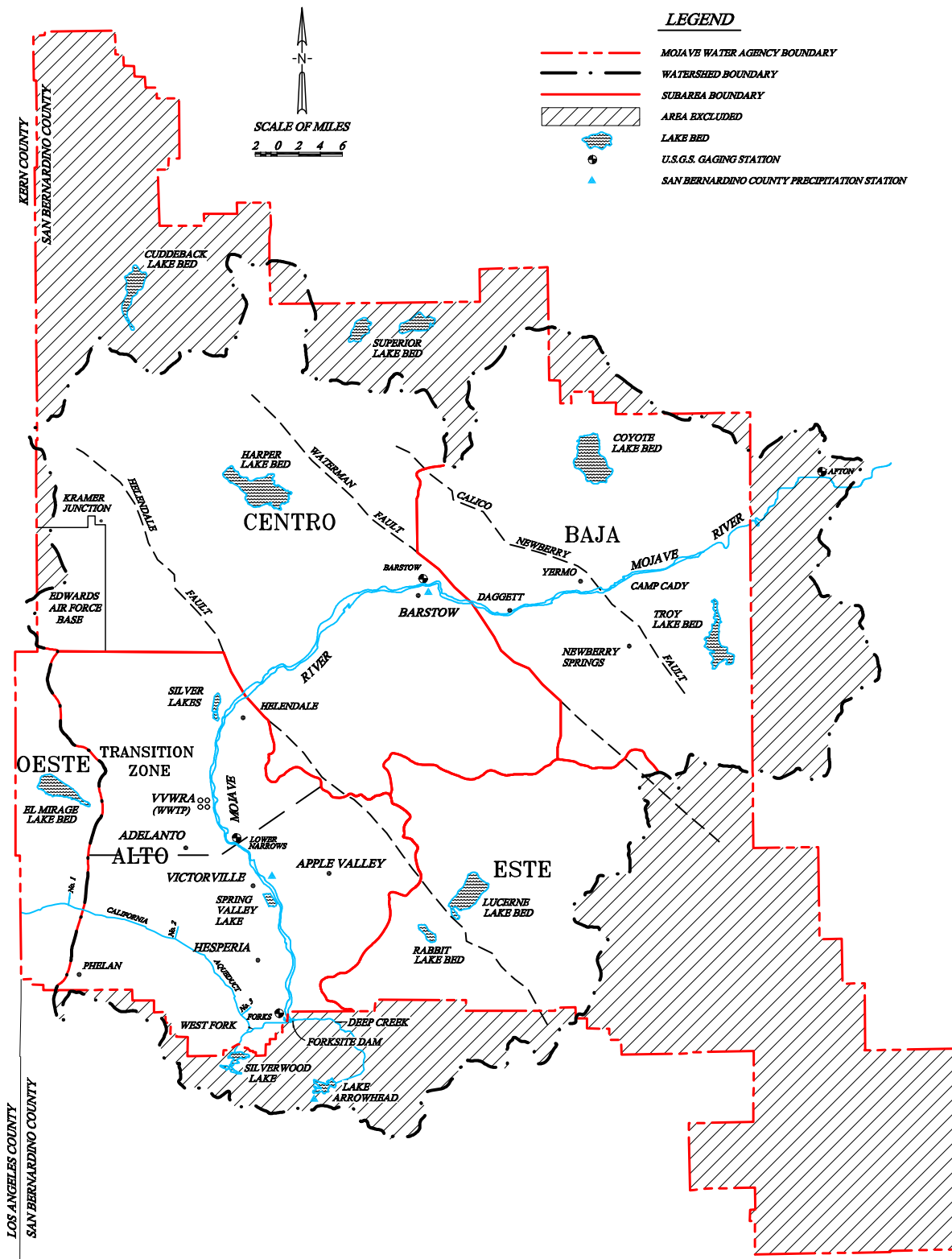
**TABLE 6-1**

**MOJAVE BASIN AREA WATERMASTER  
ADMINISTRATIVE BUDGET  
FOR WATER YEAR 2019-20**

1.	Administrative Services	\$ 353,267.00
2.	Engineering Services	\$ 93,500.00
3.	Legal Services	\$ 60,000.00
4.	Audit Services	\$ 3,700.00
<b>Total Estimated Budget</b>		<b><u>\$ 510,467.00</u></b>

## **APPENDIX A**

### **MAP OF THE MOJAVE BASIN AREA**





## **APPENDIX B**

### **PRODUCER REPLACEMENT WATER AND MAKEUP WATER OBLIGATIONS**

#### **AND ASSESSMENTS DUE FOR 2017-18**

## APPENDIX B

MARCH 27, 2019

**PRODUCER REPLACEMENT WATER  
AND  
MAKEUP WATER OBLIGATIONS  
AND  
ASSESSMENTS DUE FOR 2017-18  
(UNLESS OTHERWISE NOTED ALL AMOUNTS SHOWN ARE IN ACRE-FEET)**

## ESTE SUBAREA

PRODUCER	2017-18 FREE PRODUCTION ALLOWANCE						ASSESSMENTS DUE BY JULY 1, 2019 (AMOUNTS IN DOLLARS)								
	BASE ANNUAL PRODUCTION	BASE FREE PRODUCTION ALLOWANCE <sup>1</sup>	CARRYOVER FROM PREVIOUS YEAR <sup>2</sup>	TRANSFERS + OR (-)		TOTAL <sup>5</sup>	2017-18 VERIFIED PRODUCTION <sup>6</sup>	UNUSED FPA <sup>7</sup>	REPLACEMENT WATER OBLIGATION <sup>8</sup>	PRODUCTION SUBJECT TO MAKEUP OBLIGATION <sup>9</sup>	MAKEUP WATER OBLIGATION	REPLACEMENT WATER \$578.00/AF	MAKEUP WATER N/A	TOTAL	
				2016-17 CARRYOVER <sup>3</sup>	2017-18 FPA <sup>4</sup>										
ABDUL, HARRY AND ANITA	194	156	156	0	0	312	7	156	0	7	0.00	0.00	0.00	0.00	
ABSHIRE, DAVID V.	24	20	20	0	0	40	0	20	0	0	0.00	0.00	0.00	0.00	
AHN REVOCABLE LIVING TRUST	0	0	0	0	0	0	67	0	67	0	0.00	38,726.00	0.00	38,726.00	
AHN REVOCABLE TRUST	28	23	23	0	0	46	20	23	0	20	0.00	0.00	0.00	0.00	
AHN, CHUN SOO AND DAVID	400	320	320	(102)	0	538	0	320	0	0	0.00	0.00	0.00	0.00	
ANDERSON, ROSS C. AND BETTY J.	34	28	28	0	0	56	0	28	0	0	0.00	0.00	0.00	0.00	
AVILA, ANGEL AND EVALIA	573	459	429	(30)	0	858	118	459	0	118	0.00	0.00	0.00	0.00	
BAR H MUTUAL WATER COMPANY	53	43	43	0	0	86	25	43	0	25	0.00	0.00	0.00	0.00	
BELL, CHUCK	494	396	396	(36)	0	756	250	396	0	250	0.00	0.00	0.00	0.00	
BRACHT, WILLIAM F. AND ALEXANDER, ALICIA M.	50	40	34	0	0	74	53	21	0	53	0.00	0.00	0.00	0.00	
CASA COLINA FOUNDATION	90	72	71	0	0	143	47	72	0	47	0.00	0.00	0.00	0.00	
CENTER WATER COMPANY	40	32	32	0	0	64	21	32	0	21	0.00	0.00	0.00	0.00	
CHUNG, ET AL.	0	0	7	0	0	7	34	0	27	7	0.00	15,606.00	0.00	15,606.00	
CLUB VIEW PARTNERS	1,276	1,021	1,021	(19)	0	2,023	0	1,021	0	0	0.00	0.00	0.00	0.00	
CROSS, SHARON I.	23	19	19	0	0	38	1	19	0	1	0.00	0.00	0.00	0.00	
DACOSTA, DEAN EDWARD	56	45	45	0	0	90	1	45	0	1	0.00	0.00	0.00	0.00	
DAHLQUIST, GEORGE R.	594	476	476	0	0	952	0	476	0	0	0.00	0.00	0.00	0.00	
DESERT DAWN MUTUAL WATER COMPANY	15	12	0	0	0	12	20	0	8	12	0.00	4,624.00	0.00	4,624.00	
DESERT SPRINGS MUTUAL WATER COMPANY	78	63	63	0	0	126	44	63	0	44	0.00	0.00	0.00	0.00	
DJC CORPORATION	66	53	53	0	0	106	0	53	0	0	0.00	0.00	0.00	0.00	
GABRYCH, EUGENE	2,201	1,761	1,761	0	0	3,522	0	1,761	0	0	0.00	0.00	0.00	0.00	
GAETA, MIGUEL AND MARIA	1,500	1,200	1,200	(36)	0	2,364	1	1,200	0	1	0.00	0.00	0.00	0.00	
GAETA, TRINIDAD	512	410	410	0	0	820	132	410	0	132	0.00	0.00	0.00	0.00	
GARDENA MISSION CHURCH, INC.	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	
GAYJIKIAN, SAMUEL AND HAZEL	102	82	82	0	0	164	1	82	0	1	0.00	0.00	0.00	0.00	
GOLDEN STATE WATER COMPANY	178	143	143	0	0	286	118	143	0	118	0.00	0.00	0.00	0.00	
GORDON ACRES WATER COMPANY	54	44	44	0	0	88	17	44	0	17	0.00	0.00	0.00	0.00	
GUBLER, HANS	30	24	24	0	0	48	10	24	0	10	0.00	0.00	0.00	0.00	
HAL-DOR LTD.	23	19	19	0	0	38	16	19	0	16	0.00	0.00	0.00	0.00	
HARVEY, LISA M.	300	240	240	0	0	480	1	240	0	1	0.00	0.00	0.00	0.00	
HERT, SCOTT	276	221	221	0	0	442	200	221	0	200	0.00	0.00	0.00	0.00	
HI-GRADE MATERIALS COMPANY	442	354	354	0	0	708	168	354	0	168	0.00	0.00	0.00	0.00	
HITCHIN LUCERNE, INC.	16	13	13	0	0	26	10	13	0	10	0.00	0.00	0.00	0.00	
JUBILEE MUTUAL WATER COMPANY	142	114	31	0	0	145	100	45	0	100	0.00	0.00	0.00	0.00	
JUNIPER RIVIERA COUNTY WATER DISTRICT	37	30	0	42	0	72	66	6	0	66	0.00	0.00	0.00	0.00	
KIM, JU SANG	30	24	24	0	0	48	1	24	0	1	0.00	0.00	0.00	0.00	

## APPENDIX B

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**PRODUCER REPLACEMENT WATER  
AND  
MAKEUP WATER OBLIGATIONS  
AND  
ASSESSMENTS DUE FOR 2017-18  
(UNLESS OTHERWISE NOTED ALL AMOUNTS SHOWN ARE IN ACRE-FEET)**

## ESTE SUBAREA

PRODUCER	2017-18 FREE PRODUCTION ALLOWANCE						PRODUCTION					ASSESSMENTS DUE BY JULY 1, 2019 (AMOUNTS IN DOLLARS)		
	BASE ANNUAL PRODUCTION	BASE FREE PRODUCTION ALLOWANCE <sup>1</sup>	CARRYOVER FROM PREVIOUS YEAR <sup>2</sup>	TRANSFERS + OR (-)		TOTAL <sup>5</sup>	2017-18 VERIFIED PRODUCTION <sup>6</sup>	UNUSED FPA <sup>7</sup>	REPLACEMENT WATER OBLIGATION <sup>8</sup>	SUBJECT TO MAKEUP OBLIGATION <sup>9</sup>	MAKEUP WATER OBLIGATION	REPLACEMENT	MAKEUP	TOTAL
				2016-17 CARRYOVER <sup>3</sup>	2017-18 FPA <sup>4</sup>							WATER	WATER	
												\$578.00/AF	N/A	
LEE, ANNA K. AND ESHBAN K.	33	27	27	0	0	54	0	27	0	0	0.00	0.00	0.00	0.00
LEE, DOO HWAN	78	63	63	0	0	126	0	63	0	0	0.00	0.00	0.00	0.00
LOPEZ, BALTAZAR	385	308	308	0	0	616	0	308	0	0	0.00	0.00	0.00	0.00
LUA, MICHAEL T. AND DONNA S.	348	279	279	0	0	558	0	279	0	0	0.00	0.00	0.00	0.00
LUCERNE VALLEY MUTUAL WATER COMPANY	54	44	44	0	0	88	32	44	0	32	0.00	0.00	0.00	0.00
LUCERNE VALLEY PARTNERS	1,213	971	971	0	0	1,942	0	971	0	0	0.00	0.00	0.00	0.00
LUCERNE VISTA MUTUAL WATER COMPANY	21	17	16	0	0	33	18	15	0	18	0.00	0.00	0.00	0.00
M.B. LANDSCAPING AND NURSERY, INC.	1,773	1,419	1,419	(71)	0	2,767	1,301	1,419	0	1,301	0.00	0.00	0.00	0.00
MITSUBISHI CEMENT CORPORATION	1,395	1,116	1,116	(78)	0	2,154	357	1,116	0	357	0.00	0.00	0.00	0.00
MONACO INVESTMENT COMPANY	70	56	56	0	0	112	0	56	0	0	0.00	0.00	0.00	0.00
MOSS, LAWRENCE W. AND HELEN J.	43	35	35	0	0	70	32	35	0	32	0.00	0.00	0.00	0.00
NORRIS TRUST, MARY ANN	73	59	59	0	0	118	1	59	0	1	0.00	0.00	0.00	0.00
OASIS WORLD MISSION	0	0	0	0	0	0	48	0	48	0	0.00	27,744.00	0.00	27,744.00
OMYA CALIFORNIA, INC.	23	19	0	0	0	19	30	0	11	19	0.00	6,358.00	0.00	6,358.00
PAK, KAE SOO AND MYONG HUI KANG	247	198	198	0	0	396	69	198	0	69	0.00	0.00	0.00	0.00
PETTIGREW, DAN	22	18	18	0	0	36	0	18	0	0	0.00	0.00	0.00	0.00
PETTIGREW, JAMES AND CHERLYN	500	400	400	0	0	800	139	400	0	139	0.00	0.00	0.00	0.00
REED, MIKE	58	47	47	0	0	94	1	47	0	1	0.00	0.00	0.00	0.00
RHEE, ANDREW N.	0	0	0	30	0	30	41	0	11	30	0.00	6,358.00	0.00	6,358.00
ROBERTSON'S READY MIX	0	0	0	0	0	0	87	0	87	0	0.00	50,286.00	0.00	50,286.00
ROYAL WAY	200	160	160	0	0	320	50	160	0	50	0.00	0.00	0.00	0.00
S AND E 786 ENTERPRISES, LLC	597	478	478	0	0	956	0	478	0	0	0.00	0.00	0.00	0.00
SABA, SABA A. AND SHIRLEY L.	1,120	896	896	0	0	1,792	0	896	0	0	0.00	0.00	0.00	0.00
SAN BERNARDINO COUNTY SERVICE AREA 29	40	32	0	0	0	32	53	0	21	32	0.00	12,138.00	0.00	12,138.00
SON'S RANCH	140	112	112	0	0	224	55	112	0	55	0.00	0.00	0.00	0.00
SPECIALTY MINERALS, INC.	42	34	0	0	0	34	57	0	23	34	0.00	13,294.00	0.00	13,294.00
SPILLMAN, JAMES R. AND NANCY J.	23	19	19	0	0	38	5	19	0	5	0.00	0.00	0.00	0.00
THE CUSHENBURY TRUST, C/O SPECIALTY MINERALS, INC.	10	8	8	0	0	16	0	8	0	0	0.00	0.00	0.00	0.00
WEISER, ET AL.	90	72	0	0	0	72	163	0	91	72	0.00	52,598.00	0.00	52,598.00
WEST END MUTUAL WATER COMPANY	30	24	24	(12)	0	36	13	23	0	13	0.00	0.00	0.00	0.00
WILSHIRE ROAD PARTNERS	692	554	554	0	0	1,108	0	554	0	0	0.00	0.00	0.00	0.00
TOTAL	19,251	15,422	15,109	(312)	0	30,219	4,101	15,138	394	3,707	0.00	227,732.00	0.00	227,732.00

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OESTE SUBAREA

PRODUCER	2017-18 FREE PRODUCTION ALLOWANCE						PRODUCTION					ASSESSMENTS DUE BY JULY 1, 2019 (AMOUNTS IN DOLLARS)		
	BASE ANNUAL PRODUCTION	BASE FREE PRODUCTION ALLOWANCE <sup>1</sup>	CARRYOVER FROM PREVIOUS YEAR <sup>2</sup>	TRANSFERS + OR (-)		TOTAL <sup>5</sup>	2017-18 VERIFIED PRODUCTION <sup>6</sup>	UNUSED FPA <sup>7</sup>	REPLACEMENT WATER OBLIGATION <sup>8</sup>	SUBJECT TO MAKEUP OBLIGATION <sup>9</sup>	MAKEUP WATER OBLIGATION	REPLACEMENT	MAKEUP	TOTAL
				2016-17	2017-18							WATER	WATER	
				CARRYOVER <sup>3</sup>	FPA <sup>4</sup>									
AEROCHEM, INC.	660	528	17	0	(200)	345	10	328	0	10	0.00	0.00	0.00	0.00
BROWN, SUE AND DOUG	46	37	37	0	0	74	0	37	0	0	0.00	0.00	0.00	0.00
CHAMISAL MUTUAL WATER COMPANY	96	77	8	0	(50)	35	30	5	0	30	0.00	0.00	0.00	0.00
DOSSEY, D. A.	0	0	6	(6)	0	0	0	0	0	0	0.00	0.00	0.00	0.00
HANDRINOS, NICOLE A.	7	6	6	0	0	12	1	6	0	1	0.00	0.00	0.00	0.00
HETTINGA REVOCABLE TRUST	1,256	1,005	248	6	250	1,509	1,208	301	0	1,208	0.00	0.00	0.00	0.00
PHELAN PIÑON HILLS COMMUNITY SERVICES DISTRICT (SEE NOTE 10)	4,680	3,744	3,744	0	0	7,488	2,451	3,744	0	2,451	0.00	0.00	0.00	0.00
TROEGER FAMILY TRUST, RICHARD H.	112	90	90	0	0	180	6	90	0	6	0.00	0.00	0.00	0.00
TOTAL	6,857	5,487	4,156	0	0	9,643	3,706	4,511	0	3,706	0.00	0.00	0.00	0.00

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ALTO SUBAREA

PRODUCER	2017-18 FREE PRODUCTION ALLOWANCE						PRODUCTION									ASSESSMENTS DUE BY JULY 1, 2019 (AMOUNTS IN DOLLARS)		
	BASE ANNUAL PRODUCTION	BASE FREE PRODUCTION ALLOWANCE <sup>1</sup>	CARRYOVER FROM PREVIOUS YEAR <sup>2</sup>	TRANSFERS + OR (-)		TOTAL <sup>5</sup>	2017-18 VERIFIED PRODUCTION <sup>6</sup>	UNUSED FPA <sup>7</sup>	REPLACEMENT WATER OBLIGATION <sup>8</sup>	SUBJECT TO MAKEUP OBLIGATION <sup>9</sup>	MAKEUP WATER OBLIGATION	REPLACEMENT WATER \$578.00/AF	MAKEUP WATER \$578.00/AF	TOTAL				
				2016-17	2017-18													
				CARRYOVER <sup>3</sup>	FPA <sup>4</sup>													
ADELANTO, CITY OF	5,182	2,627	0	40	758	3,425	3,818	0	393	3,425	218.48	227,154.00	126,281.44	353,435.44				
ADES, JOHN AND DEVON	37	30	25	(25)	0	30	6	24	0	6	0.38	0.00	219.64	219.64				
AGCON, INC.	384	231	57	(57)	0	231	294	0	63	231	14.74	36,414.00	8,519.72	44,933.72				
AMERICAN STATES WATER COMPANY	1,000	600	600	(600)	0	600	0	600	0	0	0.00	0.00	0.00	0.00				
APPLE VALLEY FOOTHILL COUNTY WATER DISTRICT	167	101	17	(12)	0	106	95	11	0	95	6.06	0.00	3,502.68	3,502.68				
APPLE VALLEY HEIGHTS COUNTY WATER DISTRICT	125	75	0	18	0	93	102	0	9	93	5.93	5,202.00	3,427.54	8,629.54				
APPLE VALLEY UNIFIED SCHOOL DISTRICT	0	0	0	0	0	0	54	0	54	0	0.00	31,212.00	0.00	31,212.00				
APPLE VALLEY VIEW MUTUAL WATER COMPANY	36	22	0	0	0	22	24	0	2	22	1.40	1,156.00	809.20	1,965.20				
APPLE VALLEY, TOWN OF	1,082	650	421	0	0	1,071	508	563	0	508	32.40	0.00	18,727.20	18,727.20				
AQUA CAPITAL MANAGEMENT, LP-AGRICULTURE	72	702	0	0	(702)	0	0	0	0	0	0.00	0.00	0.00	0.00				
AQUA CAPITAL MANAGEMENT, LP-INDUSTRIAL	185	111	0	0	(111)	0	0	0	0	0	0.00	0.00	0.00	0.00				
BASS TRUST, NEWTON T.	514	412	412	(412)	0	412	2	410	0	2	0.13	0.00	75.14	75.14				
BASTIANON REVOCABLE TRUST	77	62	61	(61)	0	62	1	61	0	1	0.06	0.00	34.68	34.68				
BEEBE, ROBERT W. AND DOROTHY K.	6	5	5	0	0	10	0	5	0	0	0.00	0.00	0.00	0.00				
BEINSCHROTH FAMILY TRUST	800	640	611	(611)	0	640	47	593	0	47	3.00	0.00	1,734.00	1,734.00				
BOX, GEARY S. AND LAURA (FORMERLY: PEARSON, DERYL B.)	22	18	0	18	0	36	4	18	0	4	0.26	0.00	150.28	150.28				
BROWN, BOBBY G. AND VALERIA R.	42	34	34	(34)	0	34	1	33	0	1	0.06	0.00	34.68	34.68				
BROWN, JENNIFER	41	33	24	(24)	0	33	4	29	0	4	0.26	0.00	150.28	150.28				
BRUNEAU, KAREN	10	8	8	0	0	16	2	8	0	2	0.13	0.00	75.14	75.14				
BRYANT, IAN	29	24	24	(24)	0	24	0	24	0	0	0.00	0.00	0.00	0.00				
BUNNELL, DICK	24	20	18	(18)	0	20	2	18	0	2	0.13	0.00	75.14	75.14				
CALMAT COMPANY	25	15	11	(11)	0	15	4	11	0	4	0.26	0.00	150.28	150.28				
CALPORTLAND COMPANY - AGRICULTURE	643	515	515	(184)	0	846	0	515	0	0	0.00	0.00	0.00	0.00				
CALPORTLAND COMPANY - ORO GRANDE PLANT	2,809	1,686	1,239	(1,035)	0	1,890	763	1,127	0	763	48.67	0.00	28,131.26	28,131.26				
CDFW - MOJAVE NARROWS REGIONAL PARK	2,107	1,265	0	0	0	1,265	1,770	0	505	1,265	80.69	291,890.00	46,638.82	338,528.82				
CDFW - MOJAVE RIVER FISH HATCHERY (SEE NOTE 11)	20	16	0	0	0	16	20	0	0	0	0.00	0.00	0.00	0.00				
CEMEX, INC.	1,499	900	0	0	0	900	1,152	0	252	900	57.41	145,656.00	33,182.98	178,838.98				
CUNNINGHAM, JERRY	0	0	8	(8)	0	0	0	0	0	0	0.00	0.00	0.00	0.00				
DOLCH, ROBERT AND JUDY	100	80	76	(76)	0	80	4	76	0	4	0.26	0.00	150.28	150.28				
DORA LAND, INC.	15	12	12	(12)	0	12	0	12	0	0	0.00	0.00	0.00	0.00				
EAST DESERT LAND COMPANY, LLC (SEE NOTE 12)	0						1,208											
EVENSON, EDWIN H. AND JOYCELAINE C.	70	56	56	0	0	112	1	56	0	1	0.06	0.00	34.68	34.68				
FEDERAL BUREAU OF PRISONS, VICTORVILLE	686	412	0	0	(412)	0	0	0	0	0	0.00	0.00	0.00	0.00				
FISCHER REVOCABLE LIVING TRUST	36	29	28	(28)	0	29	1	28	0	1	0.06	0.00	34.68	34.68				

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**ALTO SUBAREA**

PRODUCER	2017-18 FREE PRODUCTION ALLOWANCE						ASSESSMENTS DUE BY JULY 1, 2019 (AMOUNTS IN DOLLARS)								
	BASE ANNUAL PRODUCTION	BASE FREE PRODUCTION ALLOWANCE <sup>1</sup>	CARRYOVER FROM PREVIOUS YEAR <sup>2</sup>	TRANSFERS + OR (-)		TOTAL <sup>5</sup>	2017-18 VERIFIED PRODUCTION <sup>6</sup>	UNUSED FPA <sup>7</sup>	REPLACEMENT WATER OBLIGATION <sup>8</sup>	SUBJECT TO MAKEUP OBLIGATION <sup>9</sup>	MAKEUP WATER OBLIGATION	REPLACEMENT WATER \$578.00/AF	MAKEUP WATER \$578.00/AF	TOTAL	
				2016-17 CARRYOVER <sup>3</sup>	2017-18 FPA <sup>4</sup>										

FISHER TRUST, JEROME R.	633	507	507	(507)	0	507	0	507	0	0	0.00	0.00	0.00	0.00
FITZWATER, R. E. (SEE NOTE 12)	291						1							
FRAZIER, ET AL.	50	40	40	(40)	0	40	0	40	0	0	0.00	0.00	0.00	0.00
GOLDEN STATE WATER COMPANY	940	564	0	0	0	564	885	0	321	564	35.98	185,538.00	20,796.44	206,334.44
GREEN ACRES ESTATES	25	15	15	0	0	30	5	15	0	5	0.32	0.00	184.96	184.96
GULBRANSON, MERLIN	5	4	4	0	0	8	0	4	0	0	0.00	0.00	0.00	0.00
HAAS, BRYAN C. AND HINKLE, MARY H.	9	8	8	(8)	0	8	0	8	0	0	0.00	0.00	0.00	0.00
HALANNA EQUITIES III	19	16	10	(10)	0	16	6	10	0	6	0.38	0.00	219.64	219.64
HAMILTON FAMILY TRUST	108	87	73	(73)	0	87	15	72	0	15	0.96	0.00	554.88	554.88
HELENDALE COMMUNITY SERVICES DISTRICT	3,707	2,225	705	(705)	0	2,225	1,539	686	0	1,539	98.17	0.00	56,742.26	56,742.26
HELENDALE SCHOOL DISTRICT	18	11	11	0	0	22	6	11	0	6	0.38	0.00	219.64	219.64
HESPERIA - GOLF COURSE, CITY OF	678	407	0	0	0	407	571	0	164	407	25.96	94,792.00	15,004.88	109,796.88
HESPERIA VENTURE I, LLC	0	0	0	0	0	0	1	0	1	0	0.00	578.00	0.00	578.00
HESPERIA WATER DISTRICT	13,914	8,349	0	330	0	8,679	14,259	0	5,580	8,679	553.63	3,225,240.00	319,998.14	3,545,238.14
HESPERIA, CITY OF	6,736	4,042	4,042	(4,042)	0	4,042	0	4,042	0	0	0.00	0.00	0.00	0.00
HI-GRADE MATERIALS COMPANY	149	90	72	(72)	0	90	18	72	0	18	1.15	0.00	664.70	664.70
HOLWAY JEFFREY R AND PATRICIA GAGE	8	7	7	(7)	0	7	0	7	0	0	0.00	0.00	0.00	0.00
HOLWAY, JEFFREY R	11	9	9	(9)	0	9	0	9	0	0	0.00	0.00	0.00	0.00
HUNT, CONNIE	66	53	53	(53)	0	53	0	53	0	0	0.00	0.00	0.00	0.00
JAMBOREE HOUSING CORPORATION	0	0	0	55	0	55	41	0	0	41	2.62	0.00	1,514.36	1,514.36
JESS RANCH WATER COMPANY	7,230	4,338	3,779	(3,011)	0	5,106	1,427	3,679	0	1,427	91.03	0.00	52,615.34	52,615.34
JOHNSON, CARLEAN	23	19	6	0	0	25	22	3	0	22	1.40	0.00	809.20	809.20
JOHNSON, RONALD	31	25	25	(25)	0	25	0	25	0	0	0.00	0.00	0.00	0.00
JOHNSTON, HARRIET AND JOHNSTON, LAWRENCE W.	127	102	100	(100)	0	102	4	98	0	4	0.26	0.00	150.28	150.28
KANESAKA, KENJI AND YUKARI	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00
KEMPER CAMPBELL RANCH	473	379	359	(359)	0	379	143	236	0	143	9.12	0.00	5,271.36	5,271.36
LAGUNA WATER II, LTD. (FORMERLY: AQUA CAPITAL MANGEMENT, LP - AGRICULTURE)	200	160	0	0	(160)	0	0	0	0	0	0.00	0.00	0.00	0.00
LAKE ARROWHEAD COMMUNITY SERVICES DISTRICT	658	527	527	(527)	0	527	0	527	0	0	0.00	0.00	0.00	0.00
LANGLEY, JAMES	5	4	4	(4)	0	4	0	4	0	0	0.00	0.00	0.00	0.00
LANGLEY, JAMES - INDUSTRIAL	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00
LAWSON, ERNEST AND BARBARA	15	12	12	(12)	0	12	1	11	0	1	0.06	0.00	34.68	34.68
LENHERT, RONALD AND TONI	37	30	30	0	0	60	8	30	0	8	0.51	0.00	294.78	294.78
LHC ALLIGATOR, LLC	498	399	399	0	0	798	0	399	0	0	0.00	0.00	0.00	0.00
LIBERTY UTILITIES (APPLE VALLEY RANCHOS WATER) CORP. (SEE NOTE 13)	13,610	8,166	2,659	0	0	10,825	8,276	2,549	0	8,276	527.92	0.00	305,137.75	305,137.75

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## ALTO SUBAREA

PRODUCER	2017-18 FREE PRODUCTION ALLOWANCE						ASSESSMENTS DUE BY JULY 1, 2019 (AMOUNTS IN DOLLARS)								
	BASE ANNUAL PRODUCTION	BASE FREE PRODUCTION ALLOWANCE <sup>1</sup>	CARRYOVER FROM PREVIOUS YEAR <sup>2</sup>	TRANSFERS + OR (-)		TOTAL <sup>5</sup>	2017-18 VERIFIED PRODUCTION <sup>6</sup>	UNUSED FPA <sup>7</sup>	REPLACEMENT WATER OBLIGATION <sup>8</sup>	PRODUCTION SUBJECT TO MAKEUP OBLIGATION <sup>9</sup>	MAKEUP WATER OBLIGATION	REPLACEMENT WATER \$578.00/AF	MAKEUP WATER \$578.00/AF	TOTAL	
				2016-17 CARRYOVER <sup>3</sup>	2017-18 FPA <sup>4</sup>										

LOW, DEAN	199	160	160	(160)	0	160	0	160	0	0	0.00	0.00	0.00	0.00
LUCKEY 2010 REVOCABLE TRUST	300	240	239	(239)	0	240	1	239	0	1	0.06	0.00	34.68	34.68
MARIANA RANCHOS COUNTY WATER DISTRICT	245	147	0	0	0	147	210	0	63	147	9.38	36,414.00	5,421.64	41,835.64
MCINNIS, WILLIAM S.	30	24	24	(24)	0	24	7	17	0	7	0.45	0.00	260.10	260.10
MCKINNEY, PAULA	33	27	27	(27)	0	27	0	27	0	0	0.00	0.00	0.00	0.00
MLH, LLC	13	11	3	0	0	14	8	6	0	8	0.51	0.00	294.78	294.78
MOJAVE WATER AGENCY (SEE NOTE 14)	0	0	0	0	0	0	20	0	20	0	0.00	11,560.00	0.00	11,560.00
NAVAJO MUTUAL WATER COMPANY	88	53	53	0	0	106	30	53	0	30	1.91	0.00	1,103.98	1,103.98
NUÑEZ, LUIS SEGUNDO	0	0	0	0	0	0	1	0	1	0	0.00	578.00	0.00	578.00
NUNN FAMILY TRUST	36	29	28	(28)	0	29	1	28	0	1	0.06	0.00	34.68	34.68
ORO GRANDE SCHOOL DISTRICT	107	65	65	0	0	130	65	65	0	65	4.15	0.00	2,398.70	2,398.70
PERRY REVOCABLE LIVING TRUST, THOMAS AND PATRICIA	0	0	0	0	0	0	1	0	1	0	0.00	578.00	0.00	578.00
PHELAN PIÑON HILLS COMMUNITY SERVICES DISTRICT	355	213	71	0	0	284	161	123	0	161	10.27	0.00	5,936.06	5,936.06
PITTMAN, LEROY W.	148	119	119	0	0	238	1	119	0	1	0.06	0.00	34.68	34.68
POLICH, DONNA	65	52	52	(52)	0	52	0	52	0	0	0.00	0.00	0.00	0.00
RANCHERITOS MUTUAL WATER COMPANY	169	102	0	0	0	102	109	0	7	102	6.51	4,046.00	3,762.78	7,808.78
RIM PROPERTIES, A GENERAL PARTNERSHIP	9	8	8	(8)	0	8	0	8	0	0	0.00	0.00	0.00	0.00
RUE RANCH	30	24	15	0	0	39	2	24	0	2	0.13	0.00	75.14	75.14
SAN BERNARDINO COUNTY - HIGH DESERT DETENTION CENT	0	0	0	0	0	0	121	0	121	0	0.00	69,938.00	0.00	69,938.00
SAN BERNARDINO COUNTY SERVICE AREA 42	465	279	209	(209)	0	279	66	213	0	66	4.21	0.00	2,433.38	2,433.38
SAN BERNARDINO COUNTY SERVICE AREA 64	3,822	2,294	379	0	0	2,673	2,801	0	128	2,673	170.51	73,984.00	98,554.78	172,538.78
SAN BERNARDINO COUNTY SERVICE AREA 70J	1,015	609	0	1,059	0	1,668	1,705	0	37	1,668	106.40	21,386.00	61,499.20	82,885.20
SAPP, ROBERT D. AND LEE, TERESA J.	42	34	26	(26)	0	34	7	27	0	7	0.45	0.00	260.10	260.10
SCRAY, MICHELLE A. TRUST	15	12	11	(11)	0	12	1	11	0	1	0.06	0.00	34.68	34.68
SERVICE ROCK PRODUCTS CORPORATION	20	12	3	0	0	15	8	7	0	8	0.51	0.00	294.78	294.78
SHEEP CREEK WATER COMPANY	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00
SILVER LAKES ASSOCIATION	4,987	2,993	655	0	0	3,648	3,699	0	51	3,648	232.70	29,478.00	134,500.60	163,978.60
SNOWBALL DEVELOPMENT, INC.	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00
SPRING VALLEY LAKE ASSOCIATION	3,768	2,261	0	0	0	2,261	2,513	0	252	2,261	144.23	145,656.00	83,364.94	229,020.94
SPRING VALLEY LAKE COUNTRY CLUB	977	587	0	151	0	738	703	35	0	703	44.84	0.00	25,917.52	25,917.52
STORM, RANDALL	62	50	50	(50)	0	50	0	50	0	0	0.00	0.00	0.00	0.00
SUDMEIER, GLENN W.	20	16	15	(15)	0	16	1	15	0	1	0.06	0.00	34.68	34.68
SUMMIT VALLEY RANCH, LLC	57	46	15	(15)	0	46	19	27	0	19	1.21	0.00	699.38	699.38
THOMPSON LIVING TRUST, JAMES A. AND SULA B.	418	335	331	(331)	0	335	1	334	0	1	0.06	0.00	34.68	34.68
THOMPSON LIVING TRUST, R.L. AND R.A.	2	2	7	(7)	0	2	4	0	2	2	0.13	1,156.00	75.14	1,231.14
THRASHER, GARY	373	299	280	(280)	0	299	15	284	0	15	0.96	0.00	554.88	554.88

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ALTO SUBAREA

PRODUCER	2017-18 FREE PRODUCTION ALLOWANCE						PRODUCTION					ASSESSMENTS DUE BY JULY 1, 2019 (AMOUNTS IN DOLLARS)			
	BASE ANNUAL PRODUCTION	BASE FREE PRODUCTION ALLOWANCE <sup>1</sup>	CARRYOVER FROM PREVIOUS YEAR <sup>2</sup>	TRANSFERS + OR (-)		TOTAL <sup>5</sup>	2017-18 VERIFIED PRODUCTION <sup>6</sup>	UNUSED FPA <sup>7</sup>	REPLACEMENT WATER OBLIGATION <sup>8</sup>	SUBJECT TO MAKEUP OBLIGATION <sup>9</sup>	MAKEUP WATER OBLIGATION	REPLACEMENT WATER \$578.00/AF	MAKEUP WATER \$578.00/AF	TOTAL	
				2016-17 CARRYOVER <sup>3</sup>	2017-18 FPA <sup>4</sup>										
THUNDERBIRD COUNTY WATER DISTRICT	118	71	0	0	0	71	107	0	36	71	4.53	20,808.00	2,618.34	23,426.34	
TRANSAMERICA FIN'L SVC - SPEARS, LARRY B. AND ERLINDA	26	21	21	0	0	42	0	21	0	0	0.00	0.00	0.00	0.00	
VANHOOPS HOLDINGS, LP	360	288	288	(288)	0	288	0	288	0	0	0.00	0.00	0.00	0.00	
VICTOR VALLEY COMMUNITY COLLEGE DISTRICT	240	144	0	0	0	144	412	0	268	144	9.19	154,904.00	5,311.82	160,215.82	
VICTOR VALLEY MEMORIAL PARK	0	0	0	0	0	0	45	0	45	0	0.00	26,010.00	0.00	26,010.00	
VICTORVILLE WATER DISTRICT, ID#1 (SEE NOTE 13)	23,020	13,812	0	0	412	14,224	19,334	0	5,110	14,224	907.34	2,953,580.00	524,442.54	3,478,022.54	
VICTORVILLE WATER DISTRICT, ID#2 (SEE NOTE 13)	2,932	1,760	0	0	0	1,760	4,931	0	3,171	1,760	112.27	1,832,838.00	64,892.06	1,897,730.06	
VOGLER, ALBERT H.	62	50	49	(49)	0	50	1	49	0	1	0.06	0.00	34.68	34.68	
WAGNER LIVING TRUST	1,224	980	980	(980)	0	980	0	980	0	0	0.00	0.00	0.00	0.00	
WAKULA FAMILY TRUST	11	9	9	0	0	18	1	9	0	1	0.06	0.00	34.68	34.68	
WARD, KEN AND BARBARA	65	52	21	(21)	0	52	16	36	0	16	1.02	0.00	589.56	589.56	
WEST, HOWARD AND SUZY	72	58	58	(58)	0	58	0	58	0	0	0.00	0.00	0.00	0.00	
WEST, JIMMIE E.	10	8	7	(7)	0	8	1	7	0	1	0.06	0.00	34.68	34.68	
WESTERN RIVERS CONSERVANCY	10	8	7	(7)	0	8	1	7	0	1	0.06	0.00	34.68	34.68	
WESTERN WATER COMPANY	15	12	12	0	0	24	0	12	0	0	0.00	0.00	0.00	0.00	
WESTLAND INDUSTRIES, INC.	54	33	24	0	0	57	28	29	0	28	1.79	0.00	1,034.62	1,034.62	
WIENER, MELVIN AND MARIAM S.	30	18	18	0	0	36	0	18	0	0	0.00	0.00	0.00	0.00	
WOOD, MICHAEL AND DENISE	0	0	0	0	0	0	44	0	44	0	0.00	25,432.00	0.00	25,432.00	
WYATT FAMILY TRUST	70	56	56	(56)	0	56	0	56	0	0	0.00	0.00	0.00	0.00	
TOTAL	114,308	70,469	22,113	(14,073)	(215)	78,294	74,317	20,813	16,701	57,596	3,674.00	9,653,178.00	2,123,572.01	11,776,750.01	



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PRODUCER	2017-18 FREE PRODUCTION ALLOWANCE						ASSESSMENTS DUE BY JULY 1, 2019 (AMOUNTS IN DOLLARS)								
	BASE ANNUAL PRODUCTION	BASE FREE PRODUCTION ALLOWANCE <sup>1</sup>	CARRYOVER FROM PREVIOUS YEAR <sup>2</sup>	TRANSFERS + OR (-)		TOTAL <sup>5</sup>	2017-18 VERIFIED PRODUCTION <sup>6</sup>	UNUSED FPA <sup>7</sup>	REPLACEMENT WATER OBLIGATION <sup>8</sup>	SUBJECT TO MAKEUP OBLIGATION <sup>9</sup>	MAKEUP WATER OBLIGATION	REPLACEMENT	MAKEUP	TOTAL	
				2016-17 CARRYOVER <sup>3</sup>	2017-18 FPA <sup>4</sup>							WATER	WATER		
												\$578.00/AF	N/A		
APPLE VALLEY HEIGHTS COUNTY WATER DISTRICT	29	24	24	(19)	0	29	0	24	0	0	0.00	0.00	0.00	0.00	
AQUA CAPITAL MANAGEMENT, LP	2,336	1,869	1,869	(1,834)	0	1,904	0	1,869	0	0	0.00	0.00	0.00	0.00	
ATCHISON, TOPEKA, SANTA FE RAILWAY COMPANY	120	96	96	(96)	(46)	50	0	50	0	0	0.00	0.00	0.00	0.00	
BAR-LEN MUTUAL WATER COMPANY	48	39	23	0	0	62	29	33	0	29	0.00	0.00	0.00	0.00	
BARSTOW COMMUNITY DEVELOPERS, LLC	0	0	0	0	0	0	17	0	17	0	0.00	9,826.00	0.00	9,826.00	
BEST, BYRON L.	21	17	17	0	0	34	0	17	0	0	0.00	0.00	0.00	0.00	
BROMMER FAMILY TRUST	361	289	0	0	(30)	259	0	259	0	0	0.00	0.00	0.00	0.00	
CHAFAR, LARRY R. AND DELINDA C.	46	37	37	0	0	74	1	37	0	1	0.00	0.00	0.00	0.00	
CHOI, YONG IL AND JOUNG AE	38	31	31	0	0	62	0	31	0	0	0.00	0.00	0.00	0.00	
CHONG, JOAN	52	42	42	0	0	84	28	42	0	28	0.00	0.00	0.00	0.00	
CHRISTISON, JOEL	75	60	60	0	0	120	1	60	0	1	0.00	0.00	0.00	0.00	
CONTRATTO, ERSULA	151	121	121	(121)	0	121	1	120	0	1	0.00	0.00	0.00	0.00	
DARR, JAMES S.	408	327	327	0	0	654	308	327	0	308	0.00	0.00	0.00	0.00	
DE VRIES, NEIL AND MARY FAMILY TRUST	3,800	3,040	3,040	0	0	6,080	1	3,040	0	1	0.00	0.00	0.00	0.00	
DORRANCE, DAVID W. AND TAMELA L.	19	16	0	0	(16)	0	0	0	0	0	0.00	0.00	0.00	0.00	
EYGNOR, ROBERT E.	50	40	40	(40)	0	40	0	40	0	0	0.00	0.00	0.00	0.00	
FEDERAL NATIONAL MORTGAGE ASSOCIATION - FANNIE MA	30	24	24	0	0	48	0	24	0	0	0.00	0.00	0.00	0.00	
FRATES, D. COLE	13	11	0	0	(11)	0	0	0	0	0	0.00	0.00	0.00	0.00	
FRIEND, JOSEPH AND DEBORAH	60	48	48	0	0	96	11	48	0	11	0.00	0.00	0.00	0.00	
GABRYCH, EUGENE	132	106	106	0	0	212	0	106	0	0	0.00	0.00	0.00	0.00	
GAINES FAMILY TRUST, JACK AND MARY	92	74	74	0	0	148	0	74	0	0	0.00	0.00	0.00	0.00	
GOLDEN STATE WATER COMPANY	14,407	11,526	11,526	(3,365)	0	19,687	5,582	11,526	0	5,582	0.00	0.00	0.00	0.00	
GRILL, NICHOLAS P. AND MILLIE D. (SEE NOTE 15)	0	0	0	0	0	0	71	0	71	0	0.00	41,038.00	0.00	41,038.00	
GUTIERREZ, JOSE AND GLORIA	130	104	89	0	0	193	95	98	0	95	0.00	0.00	0.00	0.00	
HANIFY, MICHAEL D., DBA - WHITE BEAR RANCH	152	122	23	(23)	(112)	10	0	10	0	0	0.00	0.00	0.00	0.00	
HARMSER FAMILY TRUST	722	578	578	0	0	1,156	462	578	0	462	0.00	0.00	0.00	0.00	
HARPER LAKE COMPANY VIII	1,433	1,147	957	0	0	2,104	1,074	1,030	0	1,074	0.00	0.00	0.00	0.00	
HELENDALE COMMUNITY SERVICES DISTRICT	19	16	0	0	(16)	0	0	0	0	0	0.00	0.00	0.00	0.00	
HENSLEY, MARK P.	27	22	22	0	0	44	22	22	0	22	0.00	0.00	0.00	0.00	
HI DESERT MUTUAL WATER COMPANY	34	28	19	0	0	47	20	27	0	20	0.00	0.00	0.00	0.00	
HIGH DESERT ASSOCIATES, INC.	513	411	411	0	0	822	0	411	0	0	0.00	0.00	0.00	0.00	
HILL FAMILY TRUST AND HILL'S RANCH, INC.	2,335	1,868	1,868	(338)	0	3,398	40	1,868	0	40	0.00	0.00	0.00	0.00	
HOWARD, ET AL.	43	35	35	0	0	70	0	35	0	0	0.00	0.00	0.00	0.00	
HUERTA, HECTOR	656	525	525	800	0	1,850	924	525	0	924	0.00	0.00	0.00	0.00	
JONES, JOETTE	22	18	18	0	0	36	0	18	0	0	0.00	0.00	0.00	0.00	
JORDAN FAMILY TRUST	460	368	368	(368)	0	368	4	364	0	4	0.00	0.00	0.00	0.00	

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	BASE ANNUAL PRODUCTION	BASE FREE PRODUCTION ALLOWANCE <sup>1</sup>	CARRYOVER FROM PREVIOUS YEAR <sup>2</sup>	TRANSFERS + OR (-)		TOTAL <sup>5</sup>	2017-18 VERIFIED PRODUCTION <sup>6</sup>	UNUSED FPA <sup>7</sup>	REPLACEMENT WATER OBLIGATION <sup>8</sup>	PRODUCTION SUBJECT TO MAKEUP OBLIGATION <sup>9</sup>	MAKEUP WATER OBLIGATION	REPLACEMENT	MAKEUP	TOTAL	
				2016-17 CARRYOVER <sup>3</sup>	2017-18 FPA <sup>4</sup>							WATER	WATER		
												\$578.00/AF	N/A		
KASNER FAMILY LIMITED PARTNERSHIP	421	337	337	0	0	674	0	337	0	0	0.00	0.00	0.00	0.00	
KIM, JIN S. AND HYUN H.	190	152	152	(152)	0	152	0	152	0	0	0.00	0.00	0.00	0.00	
LEE, ET AL., SEPOONG AND WOO POONG	77	62	62	0	0	124	1	62	0	1	0.00	0.00	0.00	0.00	
LEYERLY, GENEVA (SEE NOTE 12)	65						4								
MCCOLLUM, CHARLES L.	115	92	92	0	0	184	0	92	0	0	0.00	0.00	0.00	0.00	
MEAD FAMILY TRUST	115	92	92	0	0	184	1	92	0	1	0.00	0.00	0.00	0.00	
MOJAVE SOLAR, LLC	5,239	4,192	4,192	0	0	8,384	1,632	4,192	0	1,632	0.00	0.00	0.00	0.00	
MOST FAMILY TRUST	56	45	45	0	0	90	0	45	0	0	0.00	0.00	0.00	0.00	
ODESSA WATER DISTRICT	299	240	240	0	0	480	0	240	0	0	0.00	0.00	0.00	0.00	
OHAI, REYNOLDS AND DOROTHY	137	110	110	0	0	220	1	110	0	1	0.00	0.00	0.00	0.00	
OSTERKAMP, GEROLD (SEE NOTE 12)	260						125								
PACIFIC GAS AND ELECTRIC COMPANY	4,474	3,580	3,580	(150)	0	7,010	2,726	3,580	0	2,726	0.00	0.00	0.00	0.00	
RIOS, MARIANO V.	8	7	5	0	0	12	6	6	0	6	0.00	0.00	0.00	0.00	
RIVERO, FIDEL V.	20	16	16	0	0	32	1	16	0	1	0.00	0.00	0.00	0.00	
RUISCH TRUST, DALE W. AND NELLIE H.	650	520	259	150	0	929	648	281	0	648	0.00	0.00	0.00	0.00	
RUISCH, ET AL. (SEE NOTE 12)	862						475								
SERVICE ROCK PRODUCTS CORPORATION	766	613	613	0	0	1,226	18	613	0	18	0.00	0.00	0.00	0.00	
SEXTON, RODNEY A. AND SEXTON, DEREK R.	232	186	186	0	0	372	0	186	0	0	0.00	0.00	0.00	0.00	
SOPPELAND REVOCABLE TRUST	478	383	197	(197)	0	383	1	382	0	1	0.00	0.00	0.00	0.00	
SYNAGROW-WWT, INC. (DBA NURSURY PRODUCTS, LLC) (FORMERLY: NURSURY PRODUCTS, LLC)	0	0	0	0	0	0	4	0	4	0	0.00	2,312.00	0.00	2,312.00	
TALLAKSON FAMILY REVOCABLE TRUST	17	14	14	0	0	28	6	14	0	6	0.00	0.00	0.00	0.00	
VALENTI, VITO	17	14	14	0	0	28	0	14	0	0	0.00	0.00	0.00	0.00	
VAN DAM REVOCABLE TRUST, E AND S	722	578	578	(129)	0	1,027	162	578	0	162	0.00	0.00	0.00	0.00	
VAN LEEUWEN, JOHN	1,465	1,172	1,172	0	0	2,344	1,292	1,052	0	1,292	0.00	0.00	0.00	0.00	
VERNOLA TRUST, PAT AND MARY ANN	3,116	2,493	2,493	1,600	0	6,586	3,317	2,493	0	3,317	0.00	0.00	0.00	0.00	
VICTORVILLE WATER DISTRICT, ID#1	796	637	0	0	(637)	0	0	0	0	0	0.00	0.00	0.00	0.00	
WERNER, ANDREW J.	18	15	0	0	(15)	0	0	0	0	0	0.00	0.00	0.00	0.00	
WESTERN DEVELOPMENT AND STORAGE, LLC	6	5	0	0	(5)	0	0	0	0	0	0.00	0.00	0.00	0.00	
WITHEY, CONNIE	22	18	18	0	0	36	1	18	0	1	0.00	0.00	0.00	0.00	
TOTAL	49,477	38,652	36,885	(4,282)	(888)	70,367	19,112	37,268	92	19,020	0.00	53,176.00	0.00	53,176.00	

## APPENDIX B

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**PRODUCER REPLACEMENT WATER  
AND  
MAKEUP WATER OBLIGATIONS  
AND  
ASSESSMENTS DUE FOR 2017-18  
(UNLESS OTHERWISE NOTED ALL AMOUNTS SHOWN ARE IN ACRE-FEET)**

## BAJA SUBAREA

PRODUCER	2017-18 FREE PRODUCTION ALLOWANCE						ASSESSMENTS DUE BY JULY 1, 2019 (AMOUNTS IN DOLLARS)								
	BASE ANNUAL PRODUCTION	BASE FREE PRODUCTION ALLOWANCE <sup>1</sup>	CARRYOVER FROM PREVIOUS YEAR <sup>2</sup>	TRANSFERS + OR (-)		TOTAL <sup>5</sup>	2017-18 VERIFIED PRODUCTION <sup>6</sup>	UNUSED FPA <sup>7</sup>	REPLACEMENT WATER OBLIGATION <sup>8</sup>	SUBJECT TO MAKEUP OBLIGATION <sup>9</sup>	MAKEUP WATER OBLIGATION	REPLACEMENT WATER \$578.00/AF	MAKEUP WATER N/A	TOTAL	
				2016-17 CARRYOVER <sup>3</sup>	2017-18 FPA <sup>4</sup>										

35250 YERMO, LLC	24	10	9	0	0	19	14	5	0	14	0.00	0.00	0.00	0.00
AHN, CHUN SOO AND WHA JA	50	20	23	0	0	43	1	20	0	1	0.00	0.00	0.00	0.00
AKE, CHARLES J. AND MARJORIE M.	23	10	11	0	0	21	0	10	0	0	0.00	0.00	0.00	0.00
ARCHIBEK, ERIC	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00
ARGUELLES, ALFREDO	647	259	292	0	0	551	251	259	0	251	0.00	0.00	0.00	0.00
ATCHISON, TOPEKA, SANTA FE RAILWAY COMPANY	80	32	0	0	0	32	57	0	25	32	0.00	14,450.00	0.00	14,450.00
BAILEY 2007 LIVING REVOCABLE TRUST, SHERÉ R.	27	11	13	0	0	24	0	11	0	0	0.00	0.00	0.00	0.00
BARBER, JAMES B.	167	67	76	(70)	0	73	41	32	0	41	0.00	0.00	0.00	0.00
BARON, SUSAN AND PALMER, CURTIS	26	11	12	0	0	23	0	11	0	0	0.00	0.00	0.00	0.00
BENDER TRUST, DOLORES M.	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00
BORGOGNO REVOCABLE LIVING TRUST	1,844	738	369	390	0	1,497	761	736	0	761	0.00	0.00	0.00	0.00
BORJA, LEONIL T. AND TITAL L.	20	8	9	0	0	17	0	8	0	0	0.00	0.00	0.00	0.00
BREDELIS, RONALD C. AND JEAN	64	26	29	0	0	55	27	26	0	27	0.00	0.00	0.00	0.00
BROWN, RONALD A.	1,080	432	162	0	0	594	174	420	0	174	0.00	0.00	0.00	0.00
BUBIER, DIANE GAIL (FORMERLY: SHORT, CHARLES H REVOCABLE TRUST)	54	22	0	25	0	47	12	22	0	12	0.00	0.00	0.00	0.00
BUDGET FINANCE COMPANY	32	13	15	0	0	28	0	13	0	0	0.00	0.00	0.00	0.00
BUSH, KEVIN	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00
CALICO JUNCTION	20	8	9	0	0	17	0	8	0	0	0.00	0.00	0.00	0.00
CALICO LAKES HOMEOWNERS ASSOCIATION	1,293	518	525	(110)	0	933	243	518	0	243	0.00	0.00	0.00	0.00
CALIFORNIA DEPARTMENT OF TRANSPORTATION	71	29	32	0	0	61	16	29	0	16	0.00	0.00	0.00	0.00
CALMAT COMPANY	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00
CAMANGA, TONY AND MARIETTA	47	19	22	0	0	41	1	19	0	1	0.00	0.00	0.00	0.00
CAMPBELL, M. A. AND DIANNE	22	9	10	0	0	19	0	9	0	0	0.00	0.00	0.00	0.00
CARLTON, SUSAN	155	62	70	0	0	132	1	62	0	1	0.00	0.00	0.00	0.00
CDFW - CAMP CADY	921	369	415	0	0	784	79	369	0	79	0.00	0.00	0.00	0.00
CF PROPERTIES, LLC	845	338	381	(160)	0	559	211	338	0	211	0.00	0.00	0.00	0.00
CHEYENNE LAKE, INC.	522	209	197	103	0	509	197	209	0	197	0.00	0.00	0.00	0.00
CLARK, ARTHUR	50	20	23	0	0	43	0	20	0	0	0.00	0.00	0.00	0.00
CONNER, WILLIAM H.	25	10	12	0	0	22	0	10	0	0	0.00	0.00	0.00	0.00
CORBRIDGE, LINDA S.	32	13	15	0	0	28	9	13	0	9	0.00	0.00	0.00	0.00
CROSS, FRANCIS AND BEVERLY	40	16	18	0	0	34	0	16	0	0	0.00	0.00	0.00	0.00
CRYSTAL LAKES PROPERTY OWNERS ASSOCIATION	701	281	316	140	0	737	429	281	0	429	0.00	0.00	0.00	0.00
DAGGETT COMMUNITY SERVICES DISTRICT	304	122	0	0	0	122	216	0	94	122	0.00	54,332.00	0.00	54,332.00
DAGGETT RANCH, LLC	76	31	35	0	0	66	37	29	0	37	0.00	0.00	0.00	0.00
DE JONG FAMILY TRUST	3,131	1,253	1,409	545	0	3,207	1,770	1,253	0	1,770	0.00	0.00	0.00	0.00
DENNISON, QUENTIN D. - CLEGG, FRIZELL AND JOKE	29	12	14	0	0	26	0	12	0	0	0.00	0.00	0.00	0.00

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BAJA SUBAREA

PRODUCER	2017-18 FREE PRODUCTION ALLOWANCE						ASSESSMENTS DUE BY JULY 1, 2019 (AMOUNTS IN DOLLARS)								
	BASE ANNUAL PRODUCTION	BASE FREE PRODUCTION ALLOWANCE <sup>1</sup>	CARRYOVER FROM PREVIOUS YEAR <sup>2</sup>	TRANSFERS + OR (-)		TOTAL <sup>5</sup>	2017-18 VERIFIED PRODUCTION <sup>6</sup>	UNUSED FPA <sup>7</sup>	REPLACEMENT WATER OBLIGATION <sup>8</sup>	PRODUCTION SUBJECT TO MAKEUP OBLIGATION <sup>9</sup>	MAKEUP WATER OBLIGATION	REPLACEMENT WATER \$578.00/AF	MAKEUP WATER N/A	TOTAL	
				2016-17 CARRYOVER <sup>3</sup>	2017-18 FPA <sup>4</sup>										

DOCIMO LIVING TRUST, ALLEN LEE	109	44	33	32	0	109	65	28	0	65	0.00	0.00	0.00	0.00
DONALDSON, JERRY AND BEVERLY	90	36	41	0	0	77	1	36	0	1	0.00	0.00	0.00	0.00
DOWELL, LEONARD	23	10	11	0	0	21	0	10	0	0	0.00	0.00	0.00	0.00
EVERT FAMILY TRUST	173	70	7	0	0	77	36	41	0	36	0.00	0.00	0.00	0.00
FEJFAR, MONICA KAY	20	8	9	0	0	17	0	8	0	0	0.00	0.00	0.00	0.00
FERNANDEZ, ARTURO	76	31	35	0	0	66	0	31	0	0	0.00	0.00	0.00	0.00
FERRO, DENNIS AND NORMA	32	13	15	0	0	28	0	13	0	0	0.00	0.00	0.00	0.00
FIRST CPA LLC	57	23	24	0	0	47	33	14	0	33	0.00	0.00	0.00	0.00
FUNDAMENTAL CHRISTIAN ENDEAVORS, INC.	425	170	192	0	0	362	122	170	0	122	0.00	0.00	0.00	0.00
GABRYCH, EUGENE	1,637	655	679	0	0	1,334	823	511	0	823	0.00	0.00	0.00	0.00
GARCIA, DANIEL	23	10	11	0	0	21	2	10	0	2	0.00	0.00	0.00	0.00
GARG, OM P.	483	194	218	0	0	412	5	194	0	5	0.00	0.00	0.00	0.00
GENON ENERGY, INC.	7,194	2,878	3,238	(3,238)	0	2,878	754	2,124	0	754	0.00	0.00	0.00	0.00
GRAY, GEORGE F. AND BETTY E.	94	38	43	0	0	81	0	38	0	0	0.00	0.00	0.00	0.00
HACKBARTH, EDWARD E.	1,517	607	140	555	0	1,302	861	441	0	861	0.00	0.00	0.00	0.00
HANSON AGGREGATES WRP, INC.	31	13	14	0	0	27	0	13	0	0	0.00	0.00	0.00	0.00
HARESON, NICHOLAS AND MARY	8	4	4	0	0	8	0	4	0	0	0.00	0.00	0.00	0.00
HARTER, JOE AND SUE	5,234	2,094	2,356	0	0	4,450	2,582	1,868	0	2,582	0.00	0.00	0.00	0.00
HASS, PAULINE L.	35	14	15	(14)	0	15	1	14	0	1	0.00	0.00	0.00	0.00
HAWKINS, JAMES B. (FORMERLY: WESTERN HERITAGE, INC.)	854	342	0	385	0	727	0	342	0	0	0.00	0.00	0.00	0.00
HENDLEY, RICK AND BARBARA	48	20	22	0	0	42	13	20	0	13	0.00	0.00	0.00	0.00
HIETT, HARRY L.	29	12	14	0	0	26	2	12	0	2	0.00	0.00	0.00	0.00
HILARIDES 1998 REVOCABLE FAMILY TRUST	303	122	136	(135)	0	123	2	121	0	2	0.00	0.00	0.00	0.00
HO, TING-SENG AND AH-GIT	300	120	135	0	0	255	0	120	0	0	0.00	0.00	0.00	0.00
HOLLISTER, ROBERT H. AND RUTH M.	44	18	20	0	0	38	2	18	0	2	0.00	0.00	0.00	0.00
HONG, PAUL B. AND MAY	85	34	39	0	0	73	0	34	0	0	0.00	0.00	0.00	0.00
HOOD FAMILY TRUST	41	17	19	0	0	36	2	17	0	2	0.00	0.00	0.00	0.00
HORTON, JOHN	242	97	109	(97)	0	109	0	97	0	0	0.00	0.00	0.00	0.00
HORTON'S CHILDREN'S TRUST	199	80	0	0	0	80	123	0	52	80	0.00	30,056.00	0.00	30,056.00
HUBBARD, ESTER AND MIZUNO, ARLEAN	28	12	13	0	0	25	3	12	0	3	0.00	0.00	0.00	0.00
HUNT, RALPH M. AND LILLIAN F.	51	21	23	0	0	44	4	21	0	4	0.00	0.00	0.00	0.00
HYATT, JAMES AND BRENDA	210	84	95	0	0	179	17	84	0	17	0.00	0.00	0.00	0.00
IM, NICHOLAS NAK-KYUN	150	60	68	0	0	128	62	60	0	62	0.00	0.00	0.00	0.00
IRVIN, BERTRAND W.	29	12	14	10	0	36	14	12	0	14	0.00	0.00	0.00	0.00
ITALMOOD INC., ET. AL.	190	76	86	0	0	162	20	76	0	20	0.00	0.00	0.00	0.00
JACKS, JAMES F.	10	4	5	0	0	9	1	4	0	1	0.00	0.00	0.00	0.00

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PRODUCER	2017-18 FREE PRODUCTION ALLOWANCE						PRODUCTION						ASSESSMENTS DUE BY JULY 1, 2019 (AMOUNTS IN DOLLARS)		
	BASE ANNUAL PRODUCTION	BASE FREE PRODUCTION ALLOWANCE <sup>1</sup>	CARRYOVER FROM PREVIOUS YEAR <sup>2</sup>	TRANSFERS + OR (-)		TOTAL <sup>5</sup>	2017-18 VERIFIED PRODUCTION <sup>6</sup>	UNUSED FPA <sup>7</sup>	REPLACEMENT WATER OBLIGATION <sup>8</sup>	SUBJECT TO MAKEUP OBLIGATION <sup>9</sup>	MAKEUP WATER OBLIGATION	REPLACEMENT WATER \$578.00/AF	MAKEUP WATER N/A	TOTAL	
				2016-17 CARRYOVER <sup>3</sup>	2017-18 FPA <sup>4</sup>										
JACKSON, JAMES N. JR REVOCABLE LIVING TRUST	54	22	25	(10)	0	37	0	22	0	0	0.00	0.00	0.00	0.00	
JACKSON, RAY REVOCABLE TRUST NO. 45801	1	1	1	0	0	2	0	1	0	0	0.00	0.00	0.00	0.00	
JOHNSON, JAMES R. AND ELLEN	247	99	89	(89)	0	99	26	73	0	26	0.00	0.00	0.00	0.00	
KARIMI, HOOSHANG	70	28	32	0	0	60	0	28	0	0	0.00	0.00	0.00	0.00	
KASNER FAMILY LIMITED PARTNERSHIP	843	338	0	0	0	338	854	0	516	338	0.00	298,248.00	0.00	298,248.00	
KASNER, ROBERT (SEE NOTE 15)	5,713	2,286	993	1,124	0	4,403	2,721	1,682	0	2,721	0.00	0.00	0.00	0.00	
KATCHER, AUGUST M. AND MARCELINE	23	10	11	0	0	21	1	10	0	1	0.00	0.00	0.00	0.00	
KEMP, ROBERT AND ROSE	32	13	15	0	0	28	0	13	0	0	0.00	0.00	0.00	0.00	
KIM, JOON HO AND MAL BOON REVOCABLE TRUST	764	306	343	0	0	649	337	306	0	337	0.00	0.00	0.00	0.00	
KIM, SEON JA	50	20	23	0	0	43	1	20	0	1	0.00	0.00	0.00	0.00	
KOEGLER, RONALD R. AND CAROLYN V.	26	11	12	0	0	23	14	9	0	14	0.00	0.00	0.00	0.00	
KOERING, RICHARD AND KOERING, DONNA	20	8	9	0	0	17	1	8	0	1	0.00	0.00	0.00	0.00	
KOROGHLIAN, TED AND NAJWA	15	6	2	0	0	8	7	1	0	7	0.00	0.00	0.00	0.00	
KOSHAREK, JOHN AND JOANN	54	22	25	0	0	47	10	22	0	10	0.00	0.00	0.00	0.00	
LAKE JODIE PROPERTY OWNERS ASSOCIATION	311	125	140	180	0	445	304	125	0	304	0.00	0.00	0.00	0.00	
LAKE WAIKIKI	98	40	45	0	0	85	0	40	0	0	0.00	0.00	0.00	0.00	
LAKE WAINANI OWNERS ASSOCIATION	938	376	230	0	0	606	203	298	0	203	0.00	0.00	0.00	0.00	
LAM, PHILLIP	105	42	48	0	0	90	7	42	0	7	0.00	0.00	0.00	0.00	
LANGLEY, MICHAEL R. AND SHARON	20	8	7	0	0	15	12	3	0	12	0.00	0.00	0.00	0.00	
LAVANH, ET AL.	24	10	11	0	0	21	1	10	0	1	0.00	0.00	0.00	0.00	
LAWRENCE, WILLIAM W.	45	18	21	0	0	39	1	18	0	1	0.00	0.00	0.00	0.00	
LEE, VIN JANG T.	630	252	284	0	0	536	0	252	0	0	0.00	0.00	0.00	0.00	
LEM, HOY	32	13	15	0	0	28	0	13	0	0	0.00	0.00	0.00	0.00	
LIANG, YUAN - I AND TZU - MEI CHEN	200	80	90	0	0	170	0	80	0	0	0.00	0.00	0.00	0.00	
LIBERTY UTILITIES (APPLE VALLEY RANCHOS WATER) CORP.	453	182	204	(32)	0	354	138	182	0	138	0.00	0.00	0.00	0.00	
LIN, KUAN JUNG AND CHUNG, DER-BING	451	181	203	0	0	384	0	181	0	0	0.00	0.00	0.00	0.00	
LO, ET AL.	59	24	2	0	0	26	30	0	4	26	0.00	2,312.00	0.00	2,312.00	
M BIRD CONSTRUCTION	41	17	19	0	0	36	0	17	0	0	0.00	0.00	0.00	0.00	
MAHJOUBI, AFSAR S.	63	26	29	0	0	55	0	26	0	0	0.00	0.00	0.00	0.00	
MALONEY, JANICE	36	15	17	0	0	32	2	15	0	2	0.00	0.00	0.00	0.00	
MANNING, SHARON S.	63	26	0	0	0	26	42	0	16	26	0.00	9,248.00	0.00	9,248.00	
MARCROFT, JAMES A. AND JOAN	38	16	13	0	0	29	27	2	0	27	0.00	0.00	0.00	0.00	
MARSHALL, CHARLES	20	8	9	0	0	17	0	8	0	0	0.00	0.00	0.00	0.00	
MARTIN, MICHAEL D. AND ARLENE D.	63	26	0	0	0	26	42	0	16	26	0.00	9,248.00	0.00	9,248.00	
MILBRAT, IRVING H.	73	30	33	0	0	63	32	30	0	32	0.00	0.00	0.00	0.00	
MILLER LIVING TRUST	18	8	9	0	0	17	0	8	0	0	0.00	0.00	0.00	0.00	

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	BASE ANNUAL PRODUCTION	BASE FREE PRODUCTION ALLOWANCE <sup>1</sup>	CARRYOVER FROM PREVIOUS YEAR <sup>2</sup>	TRANSFERS + OR (-)		TOTAL <sup>5</sup>	2017-18 VERIFIED PRODUCTION <sup>6</sup>	UNUSED FPA <sup>7</sup>	REPLACEMENT WATER OBLIGATION <sup>8</sup>	PRODUCTION SUBJECT TO MAKEUP OBLIGATION <sup>9</sup>	MAKEUP WATER OBLIGATION	REPLACEMENT WATER \$578.00/AF	MAKEUP WATER N/A	TOTAL	
				2016-17 CARRYOVER <sup>3</sup>	2017-18 FPA <sup>4</sup>										

MIZRAHIE, ET AL.	145	58	66	0	0	124	0	58	0	0	0.00	0.00	0.00	0.00
MORRIS TRUST, JULIA V.	304	122	136	(135)	0	123	1	122	0	1	0.00	0.00	0.00	0.00
MULLIGAN, ROBERT AND INEZ	35	14	16	0	0	30	0	14	0	0	0.00	0.00	0.00	0.00
MURPHY, JEAN	24	10	11	0	0	21	4	10	0	4	0.00	0.00	0.00	0.00
NEW SPRINGS LIMITED PARTNERSHIP	2,329	932	849	(175)	(200)	1,406	0	732	0	0	0.00	0.00	0.00	0.00
NEWBERRY COMMUNITY SERVICES DISTRICT	23	10	4	0	0	14	11	3	0	11	0.00	0.00	0.00	0.00
NEWBERRY SPRINGS RECREATIONAL LAKES ASSOCIATION	5	2	1	1	0	4	0	2	0	0	0.00	0.00	0.00	0.00
O. F. D. L., INC.	300	120	98	91	0	309	167	120	0	167	0.00	0.00	0.00	0.00
P AND H ENGINEERING AND DEVELOPMENT CORPORATION	667	267	301	0	0	568	0	267	0	0	0.00	0.00	0.00	0.00
PATINO, JOSÉ	22	9	10	0	0	19	1	9	0	1	0.00	0.00	0.00	0.00
PEARCE, CRAIG L.	150	60	68	0	0	128	13	60	0	13	0.00	0.00	0.00	0.00
PERKO, BERT K.	132	53	60	0	0	113	41	53	0	41	0.00	0.00	0.00	0.00
POLAND, JOHN R. AND KATHLEEN A.	92	37	42	0	0	79	13	37	0	13	0.00	0.00	0.00	0.00
PORTER, TIMOTHY M.	30	12	14	0	0	26	0	12	0	0	0.00	0.00	0.00	0.00
POZZATO PARTNERS, LIMITED	54	22	0	0	0	22	33	0	11	22	0.00	6,358.00	0.00	6,358.00
PRICE, DONALD AND RUTH	42	17	19	0	0	36	1	17	0	1	0.00	0.00	0.00	0.00
PRUETT, ANDREA	36	15	17	0	0	32	0	15	0	0	0.00	0.00	0.00	0.00
QUAKENBUSH, SAMUEL R. (FORMERLY: SMITH, WILLIAM E. AND PATRICIA A.)	19	8	0	9	0	17	5	8	0	5	0.00	0.00	0.00	0.00
QUIROS, FRANCISCO J. AND HERRMANN, RONALD	38	16	6	0	0	22	35	0	13	22	0.00	7,514.00	0.00	7,514.00
RICE, HENRY C. AND DIANA	24	10	11	0	0	21	0	10	0	0	0.00	0.00	0.00	0.00
RIZVI, S.R ALI	27	11	13	0	0	24	0	11	0	0	0.00	0.00	0.00	0.00
ROSSI, JAMES L. AND NAOMI I.	614	246	183	0	0	429	321	108	0	321	0.00	0.00	0.00	0.00
S AND B BROTHERS, LLC	221	89	65	0	0	154	52	89	0	52	0.00	0.00	0.00	0.00
SAGABEAN-BARKER, KANOELOKELANI L.	34	14	16	0	0	30	14	14	0	14	0.00	0.00	0.00	0.00
SAMRA, JAGTAR S.	30	12	14	0	0	26	9	12	0	9	0.00	0.00	0.00	0.00
SAN BERNARDINO CO BARSTOW - DAGGETT AIRPORT	168	68	76	0	0	144	16	68	0	16	0.00	0.00	0.00	0.00
SERVICE ROCK PRODUCTS CORPORATION	0	0	0	0	0	0	1	0	1	0	0.00	578.00	0.00	578.00
SHAW, ROBERT M. AND LORI A. SLATER-SHAW	43	18	20	0	0	38	11	18	0	11	0.00	0.00	0.00	0.00
SHENG, JEN	33	14	15	0	0	29	1	14	0	1	0.00	0.00	0.00	0.00
SHEPPARD, THOMAS AND GLORIA	217	87	98	0	0	185	8	87	0	8	0.00	0.00	0.00	0.00
SHORT, CHARLES H. REVOCABLE TRUST	0	0	25	(25)	0	0	0	0	0	0	0.00	0.00	0.00	0.00
SHORT, JEROME E.	30	12	12	0	0	24	17	7	0	17	0.00	0.00	0.00	0.00
SINGH, ET AL.	31	13	14	0	0	27	0	13	0	0	0.00	0.00	0.00	0.00
SMITH, DENISE DBA AMEREQUINE BEAUTY, INC	0	0	0	0	0	0	91	0	91	0	0.00	52,598.00	0.00	52,598.00
SMITH, PORTER AND ANITA	25	10	12	0	0	22	0	10	0	0	0.00	0.00	0.00	0.00
SMITH, WILLIAM E. AND PATRICIA A.	0	0	9	(9)	0	0	0	0	0	0	0.00	0.00	0.00	0.00

APPENDIX B

MARCH 27, 2019

PRODUCER REPLACEMENT WATER  
AND  
MAKEUP WATER OBLIGATIONS  
AND  
ASSESSMENTS DUE FOR 2017-18  
(UNLESS OTHERWISE NOTED ALL AMOUNTS SHOWN ARE IN ACRE-FEET)

BAJA SUBAREA

PRODUCER	2017-18 FREE PRODUCTION ALLOWANCE						ASSESSMENTS DUE BY JULY 1, 2019 (AMOUNTS IN DOLLARS)								
	BASE ANNUAL PRODUCTION	BASE FREE PRODUCTION ALLOWANCE <sup>1</sup>	CARRYOVER FROM PREVIOUS YEAR <sup>2</sup>	TRANSFERS + OR (-)		TOTAL <sup>5</sup>	2017-18 VERIFIED PRODUCTION <sup>6</sup>	UNUSED FPA <sup>7</sup>	REPLACEMENT WATER OBLIGATION <sup>8</sup>	PRODUCTION SUBJECT TO MAKEUP OBLIGATION <sup>9</sup>	MAKEUP WATER OBLIGATION	REPLACEMENT	MAKEUP	TOTAL	
				2016-17 CARRYOVER <sup>3</sup>	2017-18 FPA <sup>4</sup>							WATER	WATER		
												\$578.00/AF	N/A		
SOUTHERN CALIFORNIA EDISON COMPANY	600	240	270	0	0	510	0	240	0	0	0.00	0.00	0.00	0.00	
SOUTHERN CALIFORNIA GAS COMPANY	98	40	45	0	0	85	7	40	0	7	0.00	0.00	0.00	0.00	
SPERRY, WESLEY	4	2	47	0	0	49	0	2	0	0	0.00	0.00	0.00	0.00	
ST. ANTONY COPTIC ORTHODOX MONASTERY	130	52	205	0	200	457	208	249	0	208	0.00	0.00	0.00	0.00	
STARKE, GEORGE A. AND JAYNE E.	23	10	11	0	0	21	0	10	0	0	0.00	0.00	0.00	0.00	
SUNDOWN LAKES, INC.	420	168	154	80	0	402	168	168	0	168	0.00	0.00	0.00	0.00	
SUNRAY LAND COMPANY, LLC	63	26	29	0	0	55	1	26	0	1	0.00	0.00	0.00	0.00	
SZYNKOWSKI, RUTH J.	29	12	14	0	0	26	2	12	0	2	0.00	0.00	0.00	0.00	
TAPIE, RAYMOND L.	18	8	9	0	0	17	1	8	0	1	0.00	0.00	0.00	0.00	
TEISAN, JERRY	96	39	44	0	0	83	0	39	0	0	0.00	0.00	0.00	0.00	
THAYER, SHARON	97	39	44	0	0	83	30	39	0	30	0.00	0.00	0.00	0.00	
THOMAS, STEPHEN AND LORI	49	20	23	0	0	43	6	20	0	6	0.00	0.00	0.00	0.00	
TRIPLE H PARTNERSHIP	218	88	99	0	0	187	92	88	0	92	0.00	0.00	0.00	0.00	
TSUI, RICHARD	0	0	213	(213)	0	0	0	0	0	0	0.00	0.00	0.00	0.00	
TURNER, TERRY	30	12	14	0	0	26	1	12	0	1	0.00	0.00	0.00	0.00	
UNION PACIFIC RAILROAD COMPANY	249	100	113	0	0	213	66	100	0	66	0.00	0.00	0.00	0.00	
VACA, ANDY AND TERESITA S.	20	8	7	0	0	15	9	6	0	9	0.00	0.00	0.00	0.00	
VAN BASTELAAR, ALPHONSE	78	32	0	0	0	32	94	0	62	32	0.00	35,836.00	0.00	35,836.00	
VAN DAM FAMILY TRUST, GLEN AND JENNIFER	5,430	2,172	2,444	0	0	4,616	3,134	1,482	0	3,134	0.00	0.00	0.00	0.00	
VAN LEEUWEN, JOHN	2,018	808	868	0	0	1,676	1,027	649	0	1,027	0.00	0.00	0.00	0.00	
VANDER DUSSEN TRUST, AGNES AND EDWARD	1,792	717	565	0	0	1,282	839	443	0	839	0.00	0.00	0.00	0.00	
WANG, STEVEN	10	4	5	0	0	9	0	4	0	0	0.00	0.00	0.00	0.00	
WARD, RAYMOND (SEE NOTE 15)	105	42	0	0	0	42	76	0	40	42	0.00	23,120.00	0.00	23,120.00	
WEEMS, LIZZIE	53	22	24	0	0	46	10	22	0	10	0.00	0.00	0.00	0.00	
WEERAISINGHE, MAITHRI N.	15	6	7	0	0	13	1	6	0	1	0.00	0.00	0.00	0.00	
WESTERN HORIZON ASSOCIATES, INC.	1,363	546	199	(86)	0	659	479	180	0	479	0.00	0.00	0.00	0.00	
WET SET, INC.	404	162	114	0	0	276	135	89	0	135	0.00	0.00	0.00	0.00	
WITTE, E. DANIEL AND MARCIA	27	11	13	0	0	24	1	11	0	1	0.00	0.00	0.00	0.00	
WLSR, INC.	328	132	113	73	0	318	133	132	0	133	0.00	0.00	0.00	0.00	
WORSEY, JOSEPH A. AND REVAE	29	12	14	0	0	26	0	12	0	0	0.00	0.00	0.00	0.00	
TOTAL	63,929	25,632	23,423	(855)	0	48,200	22,296	21,020	941	21,370	0.00	543,898.00	0.00	543,898.00	

APPENDIX B - SUMMARY  
PRODUCER REPLACEMENT WATER  
AND  
MAKEUP WATER OBLIGATIONS  
AND  
ASSESSMENTS DUE FOR 2017-18

MARCH 27, 2019

(UNLESS OTHERWISE NOTED ALL AMOUNTS SHOWN ARE IN ACRE-FEET)

SUBAREA	2017-18 FREE PRODUCTION ALLOWANCE						PRODUCTION					ASSESSMENTS DUE BY JULY 1, 2019 (AMOUNTS IN DOLLARS)		
	BASE ANNUAL PRODUCTION	BASE FREE PRODUCTION ALLOWANCE <sup>1</sup>	CARRYOVER FROM PREVIOUS YEAR <sup>2</sup>	TRANSFERS + OR (-)		TOTAL <sup>5</sup>	2017-18 VERIFIED PRODUCTION <sup>6</sup>	UNUSED <sup>7</sup> FPA	REPLACEMENT WATER OBLIGATION <sup>8</sup>	SUBJECT TO MAKEUP OBLIGATION <sup>9</sup>	MAKEUP WATER OBLIGATION	REPLACEMENT WATER	MAKEUP WATER	TOTAL
				2016-17 CARRYOVER <sup>3</sup>	2017-18 FPA <sup>4</sup>									
ESTE	19,251	15,422	15,109	(312)	0	30,219	4,101	15,138	394	3,707	0.00	227,732.00	0.00	227,732.00
OESTE	6,857	5,487	4,156	0	0	9,643	3,706	4,511	0	3,706	0.00	0.00	0.00	0.00
ALTO	114,308	70,469	22,113	(14,073)	(215)	78,294	74,317	20,813	16,701	57,596	3,674.00	9,653,178.00	2,123,572.01	11,776,750.01
CENTRO	49,477	38,652	36,885	(4,282)	(888)	70,367	19,112	37,268	92	19,020	0.00	53,176.00	0.00	53,176.00
BAJA	63,929	25,632	23,423	(855)	0	48,200	22,296	21,020	941	21,370	0.00	543,898.00	0.00	543,898.00
GRAND TOTAL	253,822	155,662	101,686	(19,522)	(1,103)	236,723	123,532	98,750	18,128	105,399	3,674.00	10,477,984.00	2,123,572.01	12,601,556.01



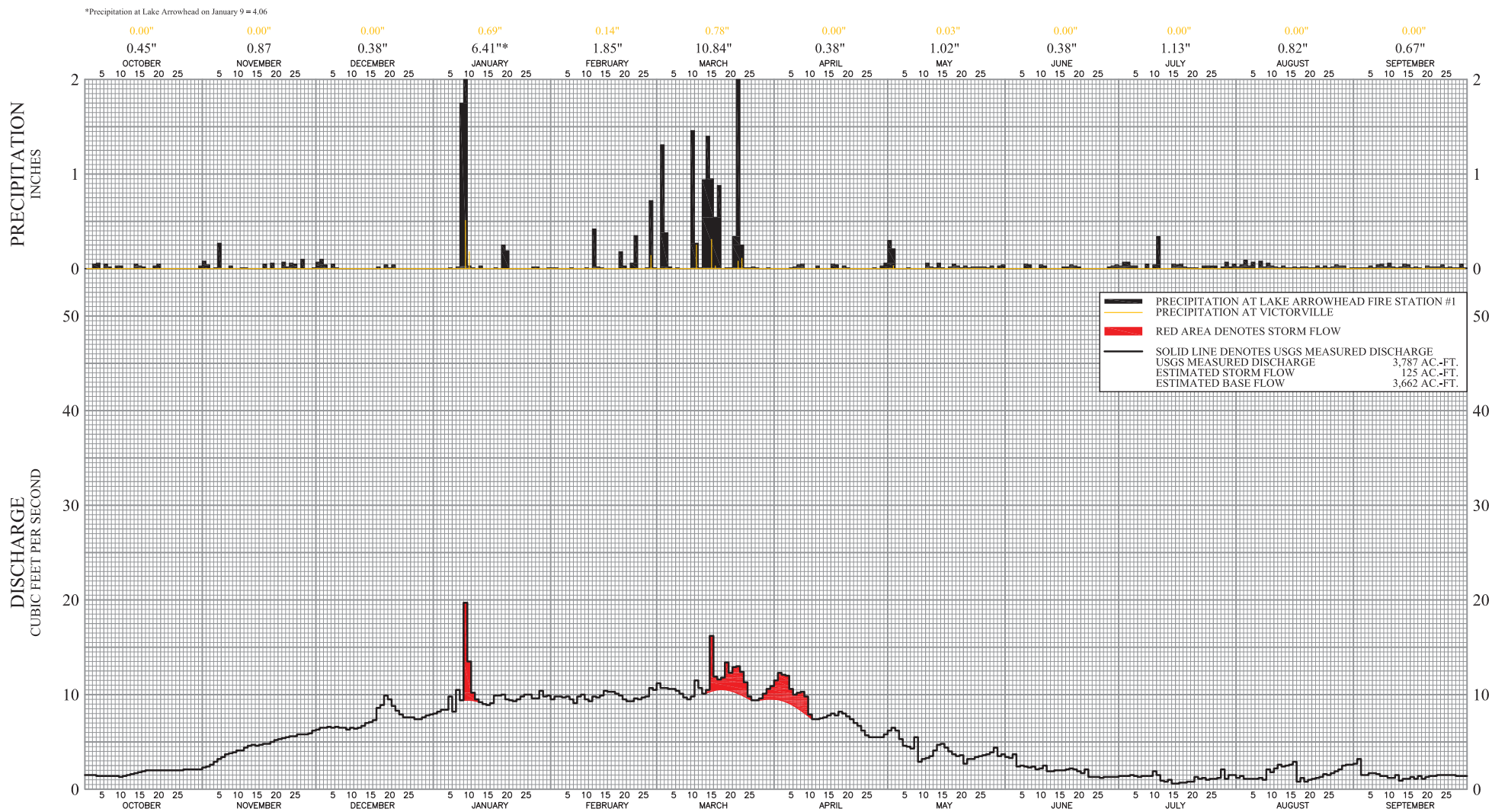
## NOTES FOR APPENDIX B

- 1 EQUAL TO 80% OF BASE ANNUAL PRODUCTION IN THE ESTE, OESTE AND CENTRO SUBAREAS AND FOR THE AGRICULTURAL PRODUCERS IN THE ALTO SUBAREA.  
EQUAL TO 60% OF BASE ANNUAL PRODUCTION FOR THE MUNICIPAL AND INDUSTRIAL PRODUCERS IN THE ALTO SUBAREA.  
EQUAL TO 40% OF BASE ANNUAL PRODUCTION IN THE BAJA SUBAREA.
- 2 UNUSED FPA FROM 2016-17 NET OF ANY TRANSFERS DURING 2016-17.
- 3 TRANSFERS OF 2016-17 UNUSED FPA FOR USE DURING 2017-18. AMOUNTS SOLD OR OTHERWISE RELINQUISHED ARE SHOWN IN PARENTHESIS. SEE APPENDIX E.
- 4 TRANSFERS OF 2017-18 BASE FREE PRODUCTION ALLOWANCE. AMOUNTS SOLD OR OTHERWISE RELINQUISHED ARE SHOWN IN PARENTHESIS. SEE APPENDIX E.
- 5 TOTAL FREE PRODUCTION ALLOWANCE FOR 2017-18 IS EQUAL TO THE SUM OF BASE FREE PRODUCTION ALLOWANCE, CARRYOVER AND TRANSFERS.
- 6 2017-18 VERIFIED PRODUCTION.
- 7 UNUSED FPA IS EQUAL TO THE TOTAL FPA MINUS TOTAL VERIFIED PRODUCTION, BUT NOT GREATER THAN THE SUM OF BASE FREE PRODUCTION ALLOWANCE  
AND 2017-18 FPA TRANSFERS.
- 8 WATER PRODUCTION IN EXCESS OF TOTAL FREE PRODUCTION ALLOWANCE.
- 9 PRODUCTION SUBJECT TO MAKEUP OBLIGATION IS EQUAL TO THE TOTAL VERIFIED PRODUCTION NOT TO EXCEED THE TOTAL FREE PRODUCTION ALLOWANCE.
- 10 PHELAN PIÑON HILLS CSD'S WELL #14 IS NOT INCLUDED IN THE TOTAL VERIFIED PRODUCTION. THE MATTER OF PUMPING FROM WELL #14, LOCATED IN LA  
COUNTY, IS STILL UNRESOLVED AND MAY AFFECT FUTURE OBLIGATIONS UNDER THE JUDGMENT.
- 11 CDFW - MOJAVE RIVER FISH HATCHERY IS EXEMPT FROM ASSESSMENTS PURSUANT TO THE PROVISIONS OF EXHIBIT F OF THE JUDGMENT AFTER TRIAL,  
DATED JANUARY 10, 1996.
- 12 APPELLANTS NOT SUBJECT TO THE JUDGMENT AFTER TRIAL PURSUANT TO SUPREME COURT DECISION DATED AUGUST 21, 2000. THE AGGREGATE BASE ANNUAL  
PRODUCTION OF THESE PARTIES WAS DETERMINED PRIOR TO TRIAL AND CONSISTS OF 291 ACRE-FEET IN THE ALTO SUBAREA AND 1,187 ACRE-FEET IN THE  
CENTRO SUBAREA. THE VERIFIED PRODUCTION WAS ESTIMATED BY WATERMASTER FOR 2017-18 AND CONSISTS OF 1,209 ACRE-FEET IN THE ALTO SUBAREA  
AND 604 ACRE-FEET IN THE CENTRO SUBAREA.
- 13 THE VERIFIED PRODUCTION SHOWN INCLUDES MWA DELIVERIES THROUGH THE REGIONAL, RECHARGE AND RECOVERY PROJECT. DELIVERIES FOR 2017-18 WATER  
YEAR INCLUDE 226 ACRE-FEET FOR LIBERTY UTILITIES (APPLE VALLEY RANCHOS WATER) CORP., 1,744 ACRE-FEET FOR VICTORVILLE WATER DISTRICT, ID#1 AND  
2,685 ACRE-FEET FOR VICTORVILLE WATER DISTRICT ID#2.
- 14 THE VERIFIED PRODUCTION SHOWN INCLUDES THE OPERATIONAL WATER USED FOR THE REGIONAL, RECHARGE AND RECOVERY PROJECT.
- 15 FPA HAS BEEN ADJUSTED 2 FOR 1 FOR THE CHANGE IN CONSUMPTIVE USE PURSUANT TO EXHIBIT F OF THE JUDGMENT.

## **APPENDIX C**

### **SEPARATION OF FLOW COMPONENTS AT LOWER NARROWS**

**AND AFTON FOR 2017-18**



DISCHARGE OF MOJAVE RIVER AT LOWER NARROWS,  
PRECIPITATION AT LAKE ARROWHEAD FIRE STATION #1,  
AND PRECIPITATION AT VICTORVILLE  
WATER YEAR 2017-18

**WATER YEAR TOTAL = 3,787 AC-FT**

# SAN BERNARDINO COUNTY PRECIPITATION STATION 5140 - LAKE ARROWHEAD FIRE STATION #1

## PRECIPITATION, INCHES

[illegible]



DISCHARGE OF MOJAVE RIVER AT AFTON  
AND PRECIPITATION AT BARSTOW  
WATER YEAR 2017-18

# MOJAVE RIVER AT AFTON, CA

U.S.G.S. GAGING STATION NO. 10263000

**WATER YEAR 2017-18**

### AVERAGE DAILY DISCHARGE, CUBIC FEET PER SECOND

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.08	0.21	0.22	0.18	0.20	0.14	e0.00	e0.00	0.00	0.00
2	0.00	0.00	0.09	0.23	0.20	0.19	0.19	0.23	e0.00	e0.00	0.00	0.00
3	0.00	0.00	0.09	0.24	0.21	0.18	0.15	0.20	e0.00	e0.00	0.00	0.00
4	0.00	0.00	0.09	0.25	0.21	0.14	0.15	0.16	e0.00	e0.00	0.00	0.00
5	0.00	0.00	0.09	0.25	0.21	0.13	0.14	0.13	e0.00	e0.00	0.00	0.00
6	0.00	0.00	0.10	0.27	0.19	0.13	0.13	0.12	e0.00	e0.00	0.00	0.00
7	0.00	0.00	0.10	0.25	0.14	0.15	0.13	0.09	e0.00	e0.00	0.00	0.00
8	0.00	0.00	0.10	0.29	0.16	0.16	0.12	0.08	e0.00	e0.00	0.00	0.00
9	0.00	0.00	0.12	5.29	0.19	0.16	0.13	0.06	e0.00	e0.00	0.00	0.00
10	0.00	0.01	0.13	0.38	0.20	0.21	0.13	0.04	e0.00	e0.00	0.00	0.00
11	0.00	0.01	0.13	0.13	0.14	0.81	0.13	0.04	e0.00	e8.45	0.00	0.00
12	0.00	0.02	0.13	0.13	0.17	0.55	0.12	0.04	e0.00	e23.3	0.00	0.00
13	0.00	0.02	0.15	0.13	0.13	0.53	0.13	0.05	e0.00	0.91	0.00	0.00
14	0.00	0.02	0.14	0.13	0.14	0.49	0.15	0.06	e0.00	0.07	0.00	0.00
15	0.00	0.02	0.15	0.13	0.15	0.46	0.18	0.05	e0.00	0.02	1.11	0.00
16	0.00	0.03	0.18	0.13	0.13	0.38	0.17	0.04	e0.00	0.00	11.6	0.00
17	0.00	0.03	0.18	0.13	0.14	0.37	0.16	0.04	e0.00	0.00	8.67	0.00
18	0.00	0.02	0.17	0.15	0.18	0.33	0.19	0.04	e0.00	0.00	4.12	0.00
19	0.00	0.03	0.17	0.17	0.15	0.33	0.20	0.03	e0.00	0.00	2.28	0.00
20	0.00	0.04	0.19	0.15	0.12	0.33	0.18	0.02	e0.00	0.00	1.12	0.00
21	0.00	0.04	0.16	0.13	0.14	0.36	0.16	0.02	e0.00	0.00	0.24	0.00
22	0.00	0.05	0.16	0.13	0.16	0.38	0.16	0.04	e0.00	0.00	0.00	0.00
23	0.00	0.05	0.18	0.14	0.16	0.33	0.13	e1.08	e0.00	0.00	0.00	0.00
24	0.00	0.06	0.19	0.17	0.15	0.29	0.11	e0.02	e0.00	0.00	0.00	0.00
25	0.00	0.06	0.18	0.20	0.16	0.26	0.11	e0.00	e0.00	0.00	0.00	0.00
26	0.00	0.06	0.18	0.18	0.20	0.24	0.09	e0.00	e0.00	0.00	0.00	0.00
27	0.00	0.07	0.17	0.17	0.20	0.22	0.09	e0.00	e0.00	0.00	0.00	0.00
28	0.00	0.07	0.20	0.20	0.17	0.23	0.09	e0.00	e0.00	0.00	0.00	0.00
29	0.00	0.07	0.20	0.22		0.22	0.10	e0.00	e0.00	0.00	0.00	0.00
30	0.00	0.08	0.21	0.23		0.19	0.11	e0.00	e0.00	0.00	0.00	0.00
31	0.00		0.22	0.22		0.19		e0.00		0.00	0.00	
TOTAL (CFS)	0.0	0.86	4.63	11.0	4.72	9.12	4.23	2.82	0.00	32.8	29.1	0.00
ACRE-FEET	0.0	1.71	9.18	21.9	9.36	18.1	8.39	5.59	0.00	65.0	57.8	0.00

**WATER YEAR TOTAL = 197 AC-FT**

# BARSTOW

NOAA STATION NO. W04-0521-07

## WATER YEAR 2017-18

### PRECIPITATION, INCHES

[illegible]



## **APPENDIX D**

### **CALCULATION OF SUBSURFACE FLOWS BETWEEN SUBAREAS**

**[RESERVED]**

## **APPENDIX E**

**TRANSFERS OF BASE ANNUAL PRODUCTION,**

**FREE PRODUCTION ALLOWANCE**

**AND PRIOR YEAR CARRYOVER**

APPENDIX E  
TRANSFERS OF BASE ANNUAL PRODUCTION,  
FREE PRODUCTION ALLOWANCE  
AND PRIOR YEAR CARRYOVER  
(ALL AMOUNTS IN ACRE-FEET)  
ESTE SUBAREA

MARCH 27, 2019

TRANSFEROR	TRANSFER AMOUNT						TRANSFeree
	BASE ANNUAL PRODUCTION <sup>1</sup>	2016-17 CARRYOVER <sup>2</sup>	2017-18 FPA <sup>3</sup>	2016-17 CARRYOVER IN LIEU OF REPLACEMENT <sup>4</sup>	2016-17 CARRYOVER IN LIEU OF MAKEUP <sup>5</sup>	2017-18 FPA IN LIEU OF MAKEUP <sup>6</sup>	
AHN, CHUN SOO AND DAVID				58			AHN REVOCABLE LIVING TRUST
AHN, CHUN SOO AND DAVID				44			OASIS WORLD MISSION
AVILA, ANGEL AND EVALIA		30					RHEE, ANDREW N.
BELL, CHUCK		36					JUNIPER RIVIERA COUNTY WATER DISTRICT
CLUB VIEW PARTNERS				19			SAN BERNARDINO COUNTY SERVICE AREA 29
GAETA, MIGUEL AND MARIA				30			JUNIPER RIVIERA COUNTY WATER DISTRICT
GAETA, MIGUEL AND MARIA		6					JUNIPER RIVIERA COUNTY WATER DISTRICT
M.B. LANDSCAPING AND NURSERY, INC.				71			WEISER, ET AL.
MITSUBISHI CEMENT CORPORATION				78			ROBERTSON'S READY MIX
WEST END MUTUAL WATER COMPANY				12			DESERT DAWN MUTUAL WATER COMPANY
<b>TOTAL</b>	<b>0</b>	<b>72</b>	<b>0</b>	<b>312</b>	<b>0</b>	<b>0</b>	

APPENDIX E

MARCH 27, 2019

TRANSFERS OF BASE ANNUAL PRODUCTION,  
FREE PRODUCTION ALLOWANCE  
AND PRIOR YEAR CARRYOVER  
(ALL AMOUNTS IN ACRE-FEET)

OESTE SUBAREA

TRANSFEROR	TRANSFER AMOUNT						TRANSFeree
	BASE ANNUAL PRODUCTION <sup>1</sup>	2016-17 CARRYOVER <sup>2</sup>	2017-18 FPA <sup>3</sup>	2016-17 CARRYOVER IN LIEU OF REPLACEMENT <sup>4</sup>	2016-17 CARRYOVER IN LIEU OF MAKEUP <sup>5</sup>	2017-18 FPA IN LIEU OF MAKEUP <sup>6</sup>	
AEROCHEM, INC.			200				HETTINGA, HEIN AND ELLEN
CHAMISAL MUTUAL WATER COMPANY			50				HETTINGA, HEIN AND ELLEN
DOSSEY, D. A.		6					HETTINGA, HEIN AND ELLEN
DOSSEY, D. A.	7						HETTINGA, HEIN AND ELLEN
<b>TOTAL</b>	<b>7</b>	<b>6</b>	<b>250</b>	<b>0</b>	<b>0</b>	<b>0</b>	

APPENDIX E

MARCH 27, 2019

TRANSFERS OF BASE ANNUAL PRODUCTION,  
FREE PRODUCTION ALLOWANCE  
AND PRIOR YEAR CARRYOVER  
(ALL AMOUNTS IN ACRE-FEET)

ALTO SUBAREA

TRANSFEROR	TRANSFER AMOUNT						TRANSFeree
	BASE ANNUAL PRODUCTION <sup>1</sup>	2016-17 CARRYOVER <sup>2</sup>	2017-18 FPA <sup>3</sup>	2016-17 CARRYOVER IN LIEU OF REPLACEMENT <sup>4</sup>	2016-17 CARRYOVER IN LIEU OF MAKEUP <sup>5</sup>	2017-18 FPA IN LIEU OF MAKEUP <sup>6</sup>	
ADES, JOHN AND DEVON				25			HESPERIA WATER DISTRICT
AGCON, INC.		57					LANGLEY, JAMES - INDUSTRIAL
AMERICAN STATES WATER COMPANY				20			GOLDEN STATE WATER COMPANY
AMERICAN STATES WATER COMPANY		200					HESPERIA WATER DISTRICT
AMERICAN STATES WATER COMPANY				6			HESPERIA WATER DISTRICT
AMERICAN STATES WATER COMPANY		374					SAN BERNARDINO COUNTY SERVICE AREA 70J
APPLE VALLEY FOOTHILL COUNTY WATER DISTRICT		12					APPLE VALLEY HEIGHTS COUNTY WATER DISTRICT
AQUA CAPITAL MANAGEMENT, LP-AGRICULTURE	805						ADELANTO, CITY OF
AQUA CAPITAL MANAGEMENT, LP-AGRICULTURE			702				AQUA CAPITAL MANAGEMENT, LP-INDUSTRIAL
AQUA CAPITAL MANAGEMENT, LP-AGRICULTURE	200						LAGUNA WATER II, LTD.
AQUA CAPITAL MANAGEMENT, LP-INDUSTRIAL				11			ADELANTO, CITY OF
AQUA CAPITAL MANAGEMENT, LP-INDUSTRIAL			638				ADELANTO, CITY OF
BASS TRUST, NEWTON T.				412			HESPERIA WATER DISTRICT
BASTIANON REVOCABLE TRUST				61			VICTORVILLE WATER DISTRICT, ID#1
BEINSCHROTH FAMILY TRUST				68			MARIANA RANCHOS COUNTY WATER DISTRICT
BEINSCHROTH FAMILY TRUST				47			THUNDERBIRD COUNTY WATER DISTRICT
BEINSCHROTH FAMILY TRUST				496			VICTORVILLE WATER DISTRICT, ID#1
BROWN, BOBBY G. AND VALERIA R.				34			SPRING VALLEY LAKE ASSOCIATION
BROWN, JENNIFER				24			SPRING VALLEY LAKE ASSOCIATION
BRYANT, IAN				24			ADELANTO, CITY OF
BUNNELL, DICK				18			ADELANTO, CITY OF
CALMAT COMPANY		11					AQUA CAPITAL MANAGEMENT, LP-INDUSTRIAL
CALPORTLAND COMPANY - AGRICULTURE		184					LANGLEY, JAMES
CALPORTLAND COMPANY - ORO GRANDE PLANT		1,035					LANGLEY, JAMES - INDUSTRIAL
CUNNINGHAM, JERRY	10						HESPERIA WATER DISTRICT
CUNNINGHAM, JERRY				8			HESPERIA WATER DISTRICT
DOLCH, ROBERT AND JUDY				76			VICTORVILLE WATER DISTRICT, ID#1
DORA LAND, INC.				12			SPRING VALLEY LAKE ASSOCIATION
FEDERAL BUREAU OF PRISONS, VICTORVILLE			412				VICTORVILLE WATER DISTRICT, ID#1
FISCHER REVOCABLE LIVING TRUST				28			ADELANTO, CITY OF
FISHER TRUST, JEROME R.				141			ADELANTO, CITY OF
FISHER TRUST, JEROME R.				366			VICTORVILLE WATER DISTRICT, ID#1
FRAZIER, ET AL.				40			ADELANTO, CITY OF
HAAS, BRYAN C. AND HINKLE, MARY H.				8			ADELANTO, CITY OF

APPENDIX E

MARCH 27, 2019

TRANSFERS OF BASE ANNUAL PRODUCTION,  
FREE PRODUCTION ALLOWANCE  
AND PRIOR YEAR CARRYOVER  
(ALL AMOUNTS IN ACRE-FEET)

ALTO SUBAREA

TRANSFEROR	TRANSFER AMOUNT						TRANSFeree
	BASE ANNUAL PRODUCTION <sup>1</sup>	2016-17 CARRYOVER <sup>2</sup>	2017-18 FPA <sup>3</sup>	2016-17 CARRYOVER IN LIEU OF REPLACEMENT <sup>4</sup>	2016-17 CARRYOVER IN LIEU OF MAKEUP <sup>5</sup>	2017-18 FPA IN LIEU OF MAKEUP <sup>6</sup>	
HALANNA EQUITIES III				10			HESPERIA WATER DISTRICT
HAMILTON FAMILY TRUST		73					JAMBOREE HOUSING CORPORATION
HELENDALE COMMUNITY SERVICES DISTRICT				679			VICTORVILLE WATER DISTRICT, ID#1
HELENDALE COMMUNITY SERVICES DISTRICT				26			VICTORVILLE WATER DISTRICT, ID#2
HESPERIA, CITY OF				4,042			HESPERIA WATER DISTRICT
HI-GRADE MATERIALS COMPANY		72					LANGLEY, JAMES - INDUSTRIAL
HOLWAY JEFFREY R AND PATRICIA GAGE		7					HESPERIA WATER DISTRICT
HOLWAY, JEFFREY R		9					HESPERIA WATER DISTRICT
HUNT, CONNIE		53					HESPERIA WATER DISTRICT
JESS RANCH WATER COMPANY				3,011			VICTORVILLE WATER DISTRICT, ID#2
JOHNSON, RONALD		25					HESPERIA WATER DISTRICT
JOHNSTON, HARRIET AND JOHNSTON, LAWRENCE W.		33					LANGLEY, JAMES
JOHNSTON, HARRIET AND JOHNSTON, LAWRENCE W.		34					LANGLEY, JAMES
JOHNSTON, HARRIET AND JOHNSTON, LAWRENCE W.		33					LANGLEY, JAMES
KEMPER CAMPBELL RANCH		100					LANGLEY, JAMES
KEMPER CAMPBELL RANCH		259					LANGLEY, JAMES
LAGUNA WATER II, LTD.			160				ADELANTO, CITY OF
LAKE ARROWHEAD COMMUNITY SERVICES DISTRICT				527			VICTORVILLE WATER DISTRICT, ID#1
LANGLEY, JAMES		493					SAN BERNARDINO COUNTY SERVICE AREA 70J
LANGLEY, JAMES				5			SPRING VALLEY LAKE COUNTRY CLUB
LANGLEY, JAMES		201					SPRING VALLEY LAKE COUNTRY CLUB
LANGLEY, JAMES				53			VICTOR VALLEY MEMORIAL PARK
LANGLEY, JAMES - INDUSTRIAL				384			CDFW - MOJAVE NARROWS REGIONAL PARK
LANGLEY, JAMES - INDUSTRIAL				273			CEMEX, INC.
LANGLEY, JAMES - INDUSTRIAL				73			HESPERIA - GOLF COURSE, CITY OF
LANGLEY, JAMES - INDUSTRIAL				210			HESPERIA WATER DISTRICT
LANGLEY, JAMES - INDUSTRIAL				95			SAN BERNARDINO COUNTY - HIGH DESERT DETENTION CEN
LANGLEY, JAMES - INDUSTRIAL		129					SAN BERNARDINO COUNTY SERVICE AREA 70J
LAWSON, ERNEST AND BARBARA				10			ADELANTO, CITY OF
LAWSON, ERNEST AND BARBARA				1			APPLE VALLEY VIEW MUTUAL WATER COMPANY
LAWSON, ERNEST AND BARBARA				1			PERRY REVOCABLE LIVING TRUST, THOMAS AND PATRICIA
LOW, DEAN		53					ADELANTO, CITY OF
LOW, DEAN				72			APPLE VALLEY UNIFIED SCHOOL DISTRICT
LOW, DEAN				35			WOOD, MICHAEL AND DENISE

APPENDIX E

MARCH 27, 2019

TRANSFERS OF BASE ANNUAL PRODUCTION,  
FREE PRODUCTION ALLOWANCE  
AND PRIOR YEAR CARRYOVER  
(ALL AMOUNTS IN ACRE-FEET)

ALTO SUBAREA

TRANSFEROR	TRANSFER AMOUNT						TRANSFeree
	BASE ANNUAL PRODUCTION <sup>1</sup>	2016-17 CARRYOVER <sup>2</sup>	2017-18 FPA <sup>3</sup>	2016-17 CARRYOVER IN LIEU OF REPLACEMENT <sup>4</sup>	2016-17 CARRYOVER IN LIEU OF MAKEUP <sup>5</sup>	2017-18 FPA IN LIEU OF MAKEUP <sup>6</sup>	
LUCKEY 2010 REVOCABLE TRUST				239			VICTORVILLE WATER DISTRICT, ID#1
MCINNIS, WILLIAM S.		8					APPLE VALLEY HEIGHTS COUNTY WATER DISTRICT
MCINNIS, WILLIAM S.				16			APPLE VALLEY HEIGHTS COUNTY WATER DISTRICT
MCKINNEY, PAULA		27					HESPERIA WATER DISTRICT
NUNN FAMILY TRUST				28			VICTORVILLE WATER DISTRICT, ID#1
PEARSON, DERYL B.		18					BOX, GEARY S. AND LAURA
PEARSON, DERYL B.	22						BOX, GEARY S. AND LAURA
POLICH, DONNA		52					HESPERIA WATER DISTRICT
RIM PROPERTIES, A GENERAL PARTNERSHIP				8			VICTORVILLE WATER DISTRICT, ID#1
SAN BERNARDINO COUNTY SERVICE AREA 42				23			SAN BERNARDINO COUNTY SERVICE AREA 70J
SAN BERNARDINO COUNTY SERVICE AREA 42		186					SAN BERNARDINO COUNTY SERVICE AREA 70J
SAPP, ROBERT D. AND LEE, TERESA J.				26			ADELANTO, CITY OF
SCRAY, MICHELLE A. TRUST		11					LANGLEY, JAMES
STORM, RANDALL				50			VICTOR VALLEY COMMUNITY COLLEGE DISTRICT
SUDMEIER, GLENN W.		15					LANGLEY, JAMES
SUMMIT VALLEY RANCH, LLC				15			HESPERIA WATER DISTRICT
THOMPSON LIVING TRUST, JAMES A. AND SULA B.				235			VICTOR VALLEY COMMUNITY COLLEGE DISTRICT
THOMPSON LIVING TRUST, JAMES A. AND SULA B.				96			VICTORVILLE WATER DISTRICT, ID#1
THOMPSON LIVING TRUST, R.L. AND R.A.	11						ADELANTO, CITY OF
THOMPSON LIVING TRUST, R.L. AND R.A.				7			SPRING VALLEY LAKE ASSOCIATION
THRASHER, GARY				280			SPRING VALLEY LAKE ASSOCIATION
VANHOOPS HOLDINGS, LP				288			VICTORVILLE WATER DISTRICT, ID#1
VOGLER, ALBERT H.				49			ADELANTO, CITY OF
WAGNER LIVING TRUST				980			VICTORVILLE WATER DISTRICT, ID#1
WARD, KEN AND BARBARA		21					LANGLEY, JAMES
WEST, HOWARD AND SUZY		58					LANGLEY, JAMES
WEST, JIMMIE E.				7			SPRING VALLEY LAKE ASSOCIATION
WESTERN RIVERS CONSERVANCY				7			ADELANTO, CITY OF
WYATT FAMILY TRUST				56			HESPERIA WATER DISTRICT
<b>TOTAL</b>	<b>1,048</b>	<b>3,843</b>	<b>1,912</b>	<b>13,842</b>	<b>0</b>	<b>0</b>	

APPENDIX E

MARCH 27, 2019

TRANSFERS OF BASE ANNUAL PRODUCTION,  
FREE PRODUCTION ALLOWANCE  
AND PRIOR YEAR CARRYOVER  
(ALL AMOUNTS IN ACRE-FEET)

CENTRO SUBAREA

TRANSFER AMOUNT							TRANSFEREE
TRANSFEROR	BASE ANNUAL PRODUCTION <sup>1</sup>	2016-17 CARRYOVER <sup>2</sup>	2017-18 FPA <sup>3</sup>	2016-17 CARRYOVER IN LIEU OF REPLACEMENT <sup>4</sup>	2016-17 CARRYOVER IN LIEU OF MAKEUP <sup>5</sup>	2017-18 FPA IN LIEU OF MAKEUP <sup>6</sup>	
APPLE VALLEY HEIGHTS COUNTY WATER DISTRICT					8		APPLE VALLEY FOOTHILL COUNTY WATER DISTRICT
APPLE VALLEY HEIGHTS COUNTY WATER DISTRICT					8		APPLE VALLEY HEIGHTS COUNTY WATER DISTRICT
APPLE VALLEY HEIGHTS COUNTY WATER DISTRICT					2		APPLE VALLEY VIEW MUTUAL WATER COMPANY
APPLE VALLEY HEIGHTS COUNTY WATER DISTRICT					1		MCINNIS, WILLIAM S.
AQUA CAPITAL MANAGEMENT, LP					306		ADELANTO, CITY OF
AQUA CAPITAL MANAGEMENT, LP					46		APPLE VALLEY, TOWN OF
AQUA CAPITAL MANAGEMENT, LP					3		BEINSCHROTH FAMILY TRUST
AQUA CAPITAL MANAGEMENT, LP					1		BROWN, JENNIFER
AQUA CAPITAL MANAGEMENT, LP					1		DOLCH, ROBERT AND JUDY
AQUA CAPITAL MANAGEMENT, LP					122		HELENDALE COMMUNITY SERVICES DISTRICT
AQUA CAPITAL MANAGEMENT, LP					2		JOHNSON, CARLEAN
AQUA CAPITAL MANAGEMENT, LP					22		PHELAN PIÑON HILLS COMMUNITY SERVICES DISTRICT
AQUA CAPITAL MANAGEMENT, LP					1		SAPP, ROBERT D. AND LEE, TERESA J.
AQUA CAPITAL MANAGEMENT, LP					294		SILVER LAKES ASSOCIATION
AQUA CAPITAL MANAGEMENT, LP					205		SPRING VALLEY LAKE ASSOCIATION
AQUA CAPITAL MANAGEMENT, LP					1		THOMPSON LIVING TRUST, JAMES A. AND SULA B.
AQUA CAPITAL MANAGEMENT, LP					1		THOMPSON LIVING TRUST, R.L. AND R.A.
AQUA CAPITAL MANAGEMENT, LP					2		THRASHER, GARY
AQUA CAPITAL MANAGEMENT, LP					7		THUNDERBIRD COUNTY WATER DISTRICT
AQUA CAPITAL MANAGEMENT, LP					13		VICTOR VALLEY COMMUNITY COLLEGE DISTRICT
AQUA CAPITAL MANAGEMENT, LP					648		VICTORVILLE WATER DISTRICT, ID#1
AQUA CAPITAL MANAGEMENT, LP					159		VICTORVILLE WATER DISTRICT, ID#2
ATCHISON, TOPEKA, SANTA FE RAILWAY COMPANY						41	CALPORTLAND COMPANY - ORO GRANDE PLANT
ATCHISON, TOPEKA, SANTA FE RAILWAY COMPANY						5	CEMEX, INC.
ATCHISON, TOPEKA, SANTA FE RAILWAY COMPANY					30		CEMEX, INC.
ATCHISON, TOPEKA, SANTA FE RAILWAY COMPANY					63		SPRING VALLEY LAKE COUNTRY CLUB
ATCHISON, TOPEKA, SANTA FE RAILWAY COMPANY					3		WARD, KEN AND BARBARA
BROMMER FAMILY TRUST						14	MARIANA RANCHOS COUNTY WATER DISTRICT
BROMMER FAMILY TRUST						3	NAVAJO MUTUAL WATER COMPANY
BROMMER FAMILY TRUST						10	RANCHERITOS MUTUAL WATER COMPANY
BROMMER FAMILY TRUST						3	WESTLAND INDUSTRIES, INC.
CONTRATTO, ERSULA					121		HESPERIA WATER DISTRICT
DORRANCE, DAVID W. AND TAMELA L.						16	CEMEX, INC.
EYGNOR, ROBERT E.					40		HESPERIA WATER DISTRICT



APPENDIX E

MARCH 27, 2019

TRANSFERS OF BASE ANNUAL PRODUCTION,  
FREE PRODUCTION ALLOWANCE  
AND PRIOR YEAR CARRYOVER  
(ALL AMOUNTS IN ACRE-FEET)

CENTRO SUBAREA

TRANSFEROR	TRANSFER AMOUNT						TRANSFeree
	BASE ANNUAL PRODUCTION <sup>1</sup>	2016-17 CARRYOVER <sup>2</sup>	2017-18 FPA <sup>3</sup>	2016-17 CARRYOVER IN LIEU OF REPLACEMENT <sup>4</sup>	2016-17 CARRYOVER IN LIEU OF MAKEUP <sup>5</sup>	2017-18 FPA IN LIEU OF MAKEUP <sup>6</sup>	
FRATES, D. COLE						11	CEMEX, INC.
GOLDEN STATE WATER COMPANY					78		GOLDEN STATE WATER COMPANY
GOLDEN STATE WATER COMPANY					37		HESPERIA - GOLF COURSE, CITY OF
GOLDEN STATE WATER COMPANY					130		HESPERIA WATER DISTRICT
GOLDEN STATE WATER COMPANY		800					HUERTA, HECTOR
GOLDEN STATE WATER COMPANY					128		JESS RANCH WATER COMPANY
GOLDEN STATE WATER COMPANY					210		LIBERTY UTILITIES (APPLE VALLEY RANCHOS WATER) COR
GOLDEN STATE WATER COMPANY					7		SAN BERNARDINO COUNTY SERVICE AREA 42
GOLDEN STATE WATER COMPANY					237		SAN BERNARDINO COUNTY SERVICE AREA 64
GOLDEN STATE WATER COMPANY					138		SAN BERNARDINO COUNTY SERVICE AREA 70J
GOLDEN STATE WATER COMPANY		1,600					VERNOLA TRUST, PAT AND MARY ANN
HANIFY, MICHAEL D., DBA - WHITE BEAR RANCH						16	AGCON, INC.
HANIFY, MICHAEL D., DBA - WHITE BEAR RANCH						92	CDFW - MOJAVE NARROWS REGIONAL PARK
HANIFY, MICHAEL D., DBA - WHITE BEAR RANCH					23		CDFW - MOJAVE NARROWS REGIONAL PARK
HANIFY, MICHAEL D., DBA - WHITE BEAR RANCH						2	HI-GRADE MATERIALS COMPANY
HANIFY, MICHAEL D., DBA - WHITE BEAR RANCH						2	KEMPER CAMPBELL RANCH
HELENDALE COMMUNITY SERVICES DISTRICT						16	HELENDALE COMMUNITY SERVICES DISTRICT
HILL FAMILY TRUST AND HILL'S RANCH, INC.					338		LIBERTY UTILITIES (APPLE VALLEY RANCHOS WATER) COR
JORDAN FAMILY TRUST					368		HESPERIA WATER DISTRICT
KIM, JIN S. AND HYUN H.					152		HESPERIA WATER DISTRICT
PACIFIC GAS AND ELECTRIC COMPANY		150					RUISCH TRUST, DALE W. AND NELLIE H.
SOPPELAND REVOCABLE TRUST				11			BARSTOW COMMUNITY DEVELOPERS, LLC
SOPPELAND REVOCABLE TRUST					162		LIBERTY UTILITIES (APPLE VALLEY RANCHOS WATER) COR
SOPPELAND REVOCABLE TRUST				24			NURSERY PRODUCTS LLC
VAN DAM REVOCABLE TRUST, E AND S				129			GRILL, NICHOLAS P. AND MILLIE D.
VICTORVILLE WATER DISTRICT, ID#1						637	VICTORVILLE WATER DISTRICT, ID#1
WERNER, ANDREW J.						15	CEMEX, INC.
WESTERN DEVELOPMENT AND STORAGE, LLC						5	CEMEX, INC.
<b>TOTAL</b>	<b>0</b>	<b>2,550</b>	<b>0</b>	<b>164</b>	<b>4,118</b>	<b>888</b>	

APPENDIX E

MARCH 27, 2019

TRANSFERS OF BASE ANNUAL PRODUCTION,  
FREE PRODUCTION ALLOWANCE  
AND PRIOR YEAR CARRYOVER  
(ALL AMOUNTS IN ACRE-FEET)

BAJA SUBAREA

TRANSFEROR	TRANSFER AMOUNT						TRANSFeree
	BASE ANNUAL PRODUCTION <sup>1</sup>	2016-17 CARRYOVER <sup>2</sup>	2017-18 FPA <sup>3</sup>	2016-17 CARRYOVER IN LIEU OF REPLACEMENT <sup>4</sup>	2016-17 CARRYOVER IN LIEU OF MAKEUP <sup>5</sup>	2017-18 FPA IN LIEU OF MAKEUP <sup>6</sup>	
BARBER, JAMES B.		70					DE JONG FAMILY TRUST
CALICO LAKES HOMEOWNERS ASSOCIATION		110					BORGOGNO REVOCABLE LIVING TRUST
CF PROPERTIES, LLC		160					HACKBARTH, EDWARD E.
DE JONG FAMILY TRUST		280					BORGOGNO REVOCABLE LIVING TRUST
DE JONG FAMILY TRUST		260					HACKBARTH, EDWARD E.
GENON ENERGY, INC.		777					DE JONG FAMILY TRUST
GENON ENERGY, INC.		2,000					KASNER, ROBERT
GENON ENERGY, INC.				6			MANNING, SHARON S.
GENON ENERGY, INC.		455					NEWBERRY SPRINGS RECREATIONAL LAKES ASSOCIATION
HASS, PAULINE L.		14					DE JONG FAMILY TRUST
HILARIDES 1998 REVOCABLE FAMILY TRUST		135					HACKBARTH, EDWARD E.
HORTON, JOHN				97			HORTON'S CHILDREN'S TRUST
JACKSON, JAMES N. JR REVOCABLE LIVING TRUST		10					IRVIN, BERTRAND W.
JOHNSON, JAMES R. AND ELLEN		89					DE JONG FAMILY TRUST
KASNER, ROBERT				876			KASNER FAMILY LIMITED PARTNERSHIP
LIBERTY UTILITIES (APPLE VALLEY RANCHOS WATER) COR		32					DOCIMO LIVING TRUST, ALLEN LEE
MORRIS TRUST, JULIA V.		135					DE JONG FAMILY TRUST
NEW SPRINGS LIMITED PARTNERSHIP				18			CALMAT COMPANY
NEW SPRINGS LIMITED PARTNERSHIP				113			SMITH, DENISE DBA AMEREQUINE BEAUTY, INC
NEW SPRINGS LIMITED PARTNERSHIP			200				ST. ANTONY COPTIC ORTHODOX MONASTERY
NEW SPRINGS LIMITED PARTNERSHIP				44			VAN BASTELAAR, ALPHONSE
NEWBERRY SPRINGS RECREATIONAL LAKES ASSOCIATION	78						CHEYENNE LAKE, INC.
NEWBERRY SPRINGS RECREATIONAL LAKES ASSOCIATION		50					CHEYENNE LAKE, INC.
NEWBERRY SPRINGS RECREATIONAL LAKES ASSOCIATION		53					CHEYENNE LAKE, INC.
NEWBERRY SPRINGS RECREATIONAL LAKES ASSOCIATION		140					CRYSTAL LAKES PROPERTY OWNERS ASSOCIATION
NEWBERRY SPRINGS RECREATIONAL LAKES ASSOCIATION		180					LAKE JODIE PROPERTY OWNERS ASSOCIATION
NEWBERRY SPRINGS RECREATIONAL LAKES ASSOCIATION	78						LAKE WAINANI OWNERS ASSOCIATION
NEWBERRY SPRINGS RECREATIONAL LAKES ASSOCIATION		53					O. F. D. L., INC.
NEWBERRY SPRINGS RECREATIONAL LAKES ASSOCIATION		38					O. F. D. L., INC.
NEWBERRY SPRINGS RECREATIONAL LAKES ASSOCIATION	78						O. F. D. L., INC.
NEWBERRY SPRINGS RECREATIONAL LAKES ASSOCIATION		53					SUNDOWN LAKES, INC.
NEWBERRY SPRINGS RECREATIONAL LAKES ASSOCIATION		27					SUNDOWN LAKES, INC.
NEWBERRY SPRINGS RECREATIONAL LAKES ASSOCIATION	78						SUNDOWN LAKES, INC.
NEWBERRY SPRINGS RECREATIONAL LAKES ASSOCIATION	78						WET SET, INC.

APPENDIX E

MARCH 27, 2019

TRANSFERS OF BASE ANNUAL PRODUCTION,  
FREE PRODUCTION ALLOWANCE  
AND PRIOR YEAR CARRYOVER  
(ALL AMOUNTS IN ACRE-FEET)

BAJA SUBAREA

TRANSFEROR	TRANSFER AMOUNT						TRANSFeree
	BASE ANNUAL PRODUCTION <sup>1</sup>	2016-17 CARRYOVER <sup>2</sup>	2017-18 FPA <sup>3</sup>	2016-17 CARRYOVER IN LIEU OF REPLACEMENT <sup>4</sup>	2016-17 CARRYOVER IN LIEU OF MAKEUP <sup>5</sup>	2017-18 FPA IN LIEU OF MAKEUP <sup>6</sup>	
NEWBERRY SPRINGS RECREATIONAL LAKES ASSOCIATION		53					WLSR, INC.
NEWBERRY SPRINGS RECREATIONAL LAKES ASSOCIATION	78						WLSR, INC.
NEWBERRY SPRINGS RECREATIONAL LAKES ASSOCIATION		20					WLSR, INC.
SHORT, CHARLES H. REVOCABLE TRUST	54						BUBIER, DIANE GAIL
SHORT, CHARLES H. REVOCABLE TRUST		25					BUBIER, DIANE GAIL
SMITH, WILLIAM E. AND PATRICIA A.	19						QUAKENBUSH, SAMUEL R.
SMITH, WILLIAM E. AND PATRICIA A.		9					QUAKENBUSH, SAMUEL R.
SPERRY, WESLEY	100						EVERT FAMILY TRUST
TSUI, RICHARD		213					NEWBERRY SPRINGS RECREATIONAL LAKES ASSOCIATION
TSUI, RICHARD	472						NEWBERRY SPRINGS RECREATIONAL LAKES ASSOCIATION
WESTERN HERITAGE, INC.		385					HAWKINS, JAMES B.
WESTERN HERITAGE, INC.	854						HAWKINS, JAMES B.
WESTERN HORIZON ASSOCIATES, INC.				86			DAGGETT COMMUNITY SERVICES DISTRICT
<b>TOTAL</b>	<b>1,967</b>	<b>5,826</b>	<b>200</b>	<b>1,240</b>	<b>0</b>	<b>0</b>	
<b>TOTAL - ALL SUBAREAS</b>	<b>3,022</b>	<b>12,297</b>	<b>2,362</b>	<b>15,558</b>	<b>4,118</b>	<b>888</b>	

## NOTES FOR APPENDIX E

- 1 TRANSFERS OF BASE ANNUAL PRODUCTION RIGHT DURING 2017-18.
- 2 TRANSFERS OF 2016-17 CARRYOVER (UNUSED FPA) FOR USE DURING 2017-18.
- 3 TRANSFERS OF 2017-18 FREE PRODUCTION ALLOWANCE FOR USE DURING 2017-18.
- 4 2016-17 CARRYOVER IN LIEU OF REPLACEMENT TRANSFERS ARE MADE ONLY FOR SATISFACTION OF REPLACEMENT WATER OBLIGATIONS INCURRED DURING 2016-17.
- 5 2016-17 CARRYOVER IN LIEU MAKEUP TRANSFERS ARE MADE ONLY FOR SATISFACTION OF MAKEUP WATER OBLIGATIONS INCURRED DURING 2016-17.
- 6 2017-18 FPA IN LIEU MAKEUP TRANSFERS ARE MADE ONLY FOR SATISFACTION OF MAKEUP WATER OBLIGATIONS INCURRED DURING 2016-17.

## **APPENDIX F**

### **BALANCES IN STORAGE AGREEMENTS**

APPENDIX F

MARCH 27, 2019

STORAGE AGREEMENT ACCOUNTING AND BALANCES  
2017-18 WATER YEAR  
(ALL AMOUNTS IN ACRE-FEET)

STORER	STORAGE AGREEMENT				ACTIVITY				BALANCE AS OF 9/30/18
	INITIATION DATE	EXPIRATION DATE	MAXIMUM AMOUNT <sup>1</sup>	AMOUNT STORED AS OF 10/1/17	ADDITIONS	LOSSES <sup>2</sup>	DISSIPATION <sup>3</sup>	EXTRACTIONS	
VICTORVILLE WATER DISTRICT, ID#1 - INJECTION	05/23/2012	06/30/2022	13,000	1,995	0	0	0	-995	1,000
VICTORVILLE WATER DISTRICT, ID#1 - PERCOLATION	07/27/2016	09/30/2028	0	9,155	450	-14	0	-502	9,089
<b>VICTORVILLE WATER DISTRICT, ID#1 TOTAL</b>			<b>13,000</b>	<b>11,150</b>	<b>450</b>	<b>-14</b>	<b>0</b>	<b>-1,497</b>	<b>10,089</b>
MOJAVE WATER AGENCY - ALTO	09/28/2016	09/28/2036	242,000	115,731	14,998	-450	0	-509	129,770
MOJAVE WATER AGENCY - BAJA	09/28/2016	09/28/2036	23,000	22,251	86	-3	0	-49	22,285
MOJAVE WATER AGENCY - CENTRO	09/28/2016	09/28/2036	35,000	22,781	165	-5	0	-9	22,932
MOJAVE WATER AGENCY - ESTE	09/28/2016	09/28/2036	7,000	1,341	0	0	0	-21	1,320
MOJAVE WATER AGENCY - OESTE	09/28/2016	09/28/2036	7,000	0	0	0	0	0	0
<b>MOJAVE WATER AGENCY TOTAL</b>			<b>314,000</b>	<b>162,104</b>	<b>15,249</b>	<b>-458</b>	<b>0</b>	<b>-588</b>	<b>176,307</b>

NOTES:

- VICTORVILLE WATER DISTRICT, ID#1 HAS A MAXIMUM STORAGE AMOUNT OF 13,000 ACRE-FEET COMBINED BETWEEN THE TWO STORAGE AGREEMENTS.
- LOSSES INCLUDE SHRINKAGE, RECHARGE LOSSES AND MIGRATION LOSSES OR SPILLAGE AMOUNTS LOST TO BASIN DISCHARGE. LOSSES HAVE BEEN DETERMINED TO BE 3 PERCENT.
- DISSIPATION INCLUDES GROUNDWATER DISSIPATED TO MOJAVE RIVER AS CALCULATED BY THE CALIFORNIA ENERGY COMMISSION AND REPORTED TO HIGH DESERT POWER PROJECT.

**APPENDIX G**

**AUDITOR'S REPORT**

**AS OF JUNE 30, 2018**



**Mojave Basin Area Watermaster  
A Component Unit of the Mojave Water Agency**

**Annual Financial Report**

**For the Fiscal Years Ended June 30, 2018 and 2017**





***Mojave Basin Area Watermaster***  
**Annual Financial Report**  
**For the Fiscal Year Ended June 30, 2018 (with comparative data for 2017)**

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## **Financial Section**



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

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## Independent Auditor's Report

To the Board of Directors  
Mojave Basin Area Watermaster  
Apple Valley, California

### Report on the Financial Statements

We have audited the accompanying financial statements of the Mojave Basin Area Watermaster (the Watermaster), a component unit of the Mojave Water Agency, which comprises the statement of net position as of June 30, 2018, and the related statement of revenues, expenses and changes in net position, and cash flows for the year then ended, and the related notes to the financial statements, which collectively comprise the Watermaster's basic financial statements.

### Management's Responsibility for the Financial Statements

The Watermaster's management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

### Auditor's Responsibility

Our responsibility is to express an opinion on these financial statements based on our audit. We conducted our audit in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States and the State Controller's *Minimum Audit Requirements for California Special Districts*. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the Watermaster's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Watermaster's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

#### PARTNERS

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Berk A. Trank, CPA  
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Lisa Morgan, CPA, MS  
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Greg Van, CPA



#### CERTIFICATIONS

American Institute of  
Certified Public Accountants

STATE TAXATION BOARD  
California

Government Audit  
Quality Council

California Society of  
Certified Public Accountants

California Society of  
Certified Public Accountants

## **Opinion**

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of the Watermaster as of June 30, 2018, and the changes in financial position and cash flows thereof for the year then ended in accordance with accounting principles generally accepted in the United States of America, as well as the accounting systems prescribed by the State Controller's Office and State Regulations governing Special Districts.

## **Other Matters**

### *Required Supplementary Information*

Accounting principles generally accepted in the United States of America require that the management's discussion and analysis, as listed in the table of contents, be presented to supplement the basic financial statements. Such information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

### *Prior Year Comparative Information*

The financial statements include partial prior-year comparative financial information for the year ended June 30, 2017, which was audited by another auditor whose report dated October 26, 2017, expressed an unmodified opinion on those statements. Such information does not include all of the information required to constitute a presentation in conformity with accounting principles generally accepted in the United States of America. Accordingly, such information should be read in conjunction with the Watermaster's financial statements for the year ended June 30, 2017, from which such partial information was derived.

## **Other Reporting Required by Government Auditing Standards**

In accordance with *Government Auditing Standards*, we have also issued our report dated October 23, 2018 on our consideration of the Watermaster's internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements and other matters. The purpose of that report is to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the Watermaster's internal control over financial reporting and compliance.

*Rogers, Anderson, Malachy & Scott, LLP.*

San Bernardino, California  
October 23, 2018

**Mojave Basin Area Watermaster**  
**Management's Discussion and Analysis**  
**For the Fiscal Year Ended June 30, 2018**

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The following Management's Discussion and Analysis (MD&A) of activities and financial performance of the Mojave Basin Area Watermaster (Watermaster) provides an introduction to the financial statements of the Watermaster for the fiscal years ended June 30, 2018 and 2017. The two-year presentation is provided for comparative purposes. We encourage readers to consider the information presented here in conjunction with the basic financial statements and related notes, which follow this section.

**Financial Highlights**

- In fiscal year 2018, the Watermaster's net position increased 7% or \$95,700 to \$1,373,559 as a result of an increase from ongoing operations. In fiscal year 2017, the Watermaster's net position increased 13% or \$142,833 to \$1,277,859 as a result of ongoing operations.
- In fiscal year 2018, the Watermaster's operating revenues increased 13% or \$71,933 to \$628,328 primarily due to increase of replacement assessments. In fiscal year 2017, the Watermaster's operating revenues increased 1% or \$4,540 to \$556,395 primarily due to an increase of administrative and make-up assessments.
- In fiscal year 2018, the Watermaster's operating expenses increased 7% or \$34,119 to \$497,210 primarily due to an increase in state water project importation charges. In fiscal year 2017, the Watermaster's operating expenses decreased 23% or \$134,564 to \$463,091 primarily due to decrease in state water project importation charges.

**Required Financial Statements**

This annual report consists of a series of comparative financial statements. The Statement of Net Position, Statement of Revenues, Expenses and Changes in Net Position and Statement of Cash Flows provide information about the activities and performance of the Watermaster using accounting methods similar to those used by private sector companies for the fiscal years 2018 and 2017.

Due to the comparative nature of this report, the following financial statements include information that reflects the current year and prior year. The Statement of Net Position includes all of the Watermaster's investments in resources (assets) and obligations to creditors (liabilities). It also provides the basis for computing a rate of return, evaluating the capital structure of the Watermaster and assessing the liquidity and financial flexibility of the Watermaster. All of the current year's revenues and expenses are accounted for in the Statement of Revenues, Expenses and Changes in Net Position. These statements measure the success of the Watermaster's operations over the past years and can be used to determine if the Watermaster has successfully recovered all of its costs through its rates and other charges. These statements can also be used to evaluate profitability and credit worthiness. The final required financial statement is the Statement of Cash Flows, which provides information about the Watermaster's cash receipts and cash payments during the reporting periods. The Statement of Cash Flows report cash receipts, cash payments and net changes in cash resulting from operations, investing, non-capital financing, and capital and related financing activities and provide answers to such questions as where did cash come from, what was cash used for, and what was the change in cash balance during the reporting period.

**Mojave Basin Area Watermaster**  
**Management's Discussion and Analysis**  
**For the Fiscal Year Ended June 30, 2018**

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**Financial Analysis of the Watermaster**

One of the most important questions asked about the Watermaster's finances is, "Is the Watermaster better off or worse off as a result of this year's activities?" The Statement of Net Position and the Statement of Revenues, Expenses and Changes in Net Position report information about the Watermaster in a way that helps answer this question.

These statements include all assets, deferred outflows of resources, liabilities and deferred inflows of resources using the *accrual basis of accounting*, which is similar to the accounting method used by most private sector companies. All of the current year's revenues and expenses are taken into account regardless of when the cash is received or paid.

These two statements report the Watermaster's *net position* and changes in net position. You can think of the Watermaster's net position – the difference between assets and liabilities – as one way to measure the Watermaster's financial health, or *financial position*. Over time, *increases or decreases* in the Watermaster's net position are one indicator of whether its *financial health* is improving or deteriorating. However, one will need to consider other non-financial factors such as changes in economic conditions, population growth, zoning and new or changed government legislation, such as changes in Federal and State water quality standards.

**Notes to the Basic Financial Statements**

The notes provide additional information that is essential to a full understanding of the data provided in the basic financial statements.

**Statements of Net Position**

	<b>Condensed Statements of Net Position</b>				
	<b>2018</b>	<b>2017</b>	<b>\$ Change</b>	<b>2016</b>	<b>Change</b>
Assets					
Current assets	\$ 1,601,022	\$ 1,407,225	\$ 193,797	\$ 1,346,242	\$ 60,983
Total assets	1,601,022	1,407,225	193,797	1,346,242	60,983
Liabilities					
Current liabilities	227,463	129,366	98,097	211,216	(81,850)
Total liabilities	227,463	129,366	98,097	211,216	(81,850)
Net position					
Restricted	1,373,559	1,277,859	95,700	1,135,026	142,833
Total net position	\$ 1,373,559	\$ 1,277,859	\$ 95,700	\$ 1,135,026	\$ 142,833

As noted earlier, net position may serve over time as a useful indicator of a government's financial position. In the case of the Watermaster, assets of the Watermaster exceeded liabilities by \$1,373,559 and \$1,277,859 as of June 30, 2018 and 2017, respectively, which are restricted for the Biological Resources Trust Fund, Watermaster administrative costs, replacement water and make-up water. The sources that feed each of these funds are dictated by the Judgment. Uses of these funds can only be used for the purpose stated in the Judgment.

**Mojave Basin Area Watermaster**  
**Management's Discussion and Analysis**  
**For the Fiscal Year Ended June 30, 2018**

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**Statements of Revenues, Expenses and Changes in Net Position**

<b>Condensed Statements of Revenues, Expenses and Changes in Net Position</b>					
	<b>2018</b>	<b>2017</b>	<b>Change</b>	<b>2016</b>	<b>Change</b>
Revenue:					
Operating revenues	\$ 628,328	\$ 556,395	\$ 71,933	\$ 551,855	\$ 4,540
Non-operating revenues	17,397	62,749	(45,352)	74,453	(11,704)
Total revenues	<u>645,725</u>	<u>619,144</u>	<u>26,581</u>	<u>626,308</u>	<u>(7,164)</u>
Expense:					
Operating expense	497,210	463,091	34,119	597,655	(134,564)
Non-operating expenses	<u>52,815</u>	<u>13,220</u>	<u>39,595</u>	<u>44,113</u>	<u>(30,893)</u>
Total expenses	<u>550,025</u>	<u>476,311</u>	<u>73,714</u>	<u>641,768</u>	<u>(165,457)</u>
Transfers in	<u>-</u>	<u>-</u>	<u>-</u>	<u>471,044</u>	<u>(471,044)</u>
Change in net position	95,700	142,833	(47,133)	455,584	(312,751)
Net position, beginning of year	<u>1,277,859</u>	<u>1,135,026</u>	<u>142,833</u>	<u>679,442</u>	<u>455,584</u>
Net position, end of year	<u>\$ 1,373,559</u>	<u>\$ 1,277,859</u>	<u>\$ 95,700</u>	<u>\$ 1,135,026</u>	<u>\$ 142,833</u>

The statement of revenues, expenses and changes in net position show how the Watermaster's net position changed during the fiscal years. In the case of the Watermaster, net position increased by \$95,700 for the fiscal year ended June 30, 2018, as result of ongoing operations. For the fiscal year ended June 30, 2017, net position increased by \$142,833 as a result of ongoing operations.

A closer examination of the sources of changes in net position reveals that:

In fiscal year 2018, the Watermaster's total revenues increased 4%, or \$26,581, to \$645,725 due to a \$71,933 increase in operating revenue and a \$45,352 decrease in non-operating revenue. In fiscal year 2017, the Watermaster's total revenues decreased 1% or \$7,164, to \$619,144 due to a \$4,540 increase in operating revenues and a \$11,704 decrease in non-operating revenues.

In fiscal year 2018, the Watermaster's total expenses increased 15%, or \$73,714, to \$550,025 primarily due to an increase in state water project importation charges and an increase in non-operating expenses. In fiscal year 2017, the Watermaster's total expenses decreased 26% or \$165,457 to \$476,311 primarily due to a \$134,564 decrease in state water project importation charges and a decrease in non-operating expenses.

**Conditions Affecting Current Financial Position**

Management is unaware of any conditions which could have a significant impact on the Watermaster's current financial position, net position or operating results based on past, present and future events.

**Requests for Information**

This financial report is designed to provide the Watermaster's funding sources, customers, stakeholders and other interested parties with an overview of the Watermaster's financial operations and financial condition. Should the reader have questions regarding the information included in this report or wish to request additional financial information, please contact the Mojave Water Agency's Chief Financial Officer at 13846 Conference Center Drive, Apple Valley, CA 92307.

## **Basic Financial Statements**



**Mojave Basin Area Watermaster**  
**Statements of Net Position**  
**June 30, 2018 (with comparative data for 2017)**

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	<u>2018</u>	<u>2017</u>
<b>ASSETS</b>		
<b>Current assets:</b>		
Restricted - cash and cash equivalents (Note 2)	\$ 1,518,504	\$ 1,377,329
Accrued interest receivable	4,453	2,136
Accounts receivable - Watermaster assessments	<u>78,065</u>	<u>27,760</u>
Total current assets	<u>1,601,022</u>	<u>1,407,225</u>
<b>Total assets</b>	<u>1,601,022</u>	<u>1,407,225</u>
<b>LIABILITIES</b>		
<b>Current liabilities:</b>		
Accounts payable and other accrued expenses (Note 3)	<u>227,463</u>	<u>129,366</u>
Total current liabilities	<u>227,463</u>	<u>129,366</u>
<b>Total liabilities</b>	<u>227,463</u>	<u>129,366</u>
<b>NET POSITION</b>		
Restricted for watermaster (Note 4)	<u>1,373,559</u>	<u>1,277,859</u>
<b>Total net position</b>	<u><u>\$ 1,373,559</u></u>	<u><u>\$ 1,277,859</u></u>

See accompanying notes to the basic financial statements.

**Mojave Basin Area Watermaster****Statements of Revenues, Expenses and Changes in Net Position****For the Fiscal Year Ended June 30, 2018 (with comparative data for 2017)**

	<b>2018</b>	<b>2017</b>
<b>OPERATING REVENUES</b>		
Administrative assessments	\$ 436,863	\$ 433,524
Biological assessments	116,549	110,254
Replacement assessments	68,944	7,210
Make-up assessments	5,972	5,407
<b>Total operating revenues</b>	<b>628,328</b>	<b>556,395</b>
<b>OPERATING EXPENSES</b>		
State Water Project importation charges	75,715	11,851
Operating costs	421,495	451,240
<b>Total operating expenses</b>	<b>497,210</b>	<b>463,091</b>
<b>Operating income</b>	<b>131,118</b>	<b>93,304</b>
<b>NONOPERATING REVENUES (EXPENSES)</b>		
Investment earnings	12,503	5,055
Other nonoperating revenue	4,894	57,694
Other nonoperating expense	(52,815)	(13,220)
<b>Total nonoperating revenues (expenses)</b>	<b>(35,418)</b>	<b>49,529</b>
<b>Change in net position</b>	<b>95,700</b>	<b>142,833</b>
<b>Net position, beginning of year</b>	<b>1,277,859</b>	<b>1,135,026</b>
<b>Net position, end of year</b>	<b>\$ 1,373,559</b>	<b>\$ 1,277,859</b>

See accompanying notes to the basic financial statements.

**Mojave Basin Area Watermaster**  
**Statements of Cash Flows**  
**For the Fiscal Year Ended June 30, 2018 (with comparative data for 2017)**

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	<u>2018</u>	<u>2017</u>
<b>Cash flows from operating activities:</b>		
Cash receipts from customers and others	\$ 578,023	\$ 612,997
Cash paid to vendors and suppliers	(158,485)	(224,181)
Cash paid to employees for salaries and wages	<u>(288,549)</u>	<u>(276,286)</u>
Net cash provided by operating activities	<u>130,989</u>	<u>112,530</u>
<b>Cash flows from noncapital financing activities:</b>		
Transfers from (to) Mojave Water Agency	<u>-</u>	<u>1,670</u>
Net cash provided by non-capital financing activities	<u>-</u>	<u>1,670</u>
<b>Cash flows from investing activities:</b>		
Investment earnings	<u>10,186</u>	<u>4,173</u>
Net cash provided by investing activities	<u>10,186</u>	<u>4,173</u>
Net increase in cash and cash equivalents	141,175	118,373
<b>Cash and investments, beginning of year</b>	<u>1,377,329</u>	<u>1,258,956</u>
<b>Cash and investments, end of year</b>	<u><u>\$ 1,518,504</u></u>	<u><u>\$ 1,377,329</u></u>
Reconciliation to the Statement of Net Position:		
Restricted - cash and cash equivalents	<u>\$ 1,518,504</u>	<u>\$ 1,377,329</u>
Total cash and investments	<u><u>\$ 1,518,504</u></u>	<u><u>\$ 1,377,329</u></u>

See accompanying notes to the basic financial statements.

**Mojave Basin Area Watermaster**  
**Statements of Cash Flows, continued**  
**For the Fiscal Year Ended June 30, 2018 (with comparative data for 2017)**

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	<u>2018</u>	<u>2017</u>
<b>Reconciliation of operating income to net cash provided by operating activities</b>		
Operating income	\$ 131,118	\$ 93,304
Adjustments to reconcile operating income (loss) to net cash provided by operating activities:		
Nonoperating revenues	4,894	57,694
Nonoperating expenses	(52,815)	(13,220)
Changes in assets and liabilities:		
Decrease in assets:		
Accounts receivable - Watermaster assessments	(50,305)	56,602
(Decrease) in liabilities:		
Accounts payable and other accrued expenses (Note 3)	<u>98,097</u>	<u>(81,850)</u>
Total adjustments	<u>(129)</u>	<u>19,226</u>
Net cash provided by operating activities	<u>\$ 130,989</u>	<u>\$ 112,530</u>

See accompanying notes to the basic financial statements.

**Note 1: Reporting Entity and Summary of Significant Accounting Policies**

**A. Organization and Operations of the Reporting Entity**

The Mojave Water Agency (Agency) was organized July 21, 1960, by an act of the legislature of the State of California known as the Mojave Water Agency Act. Within the limits of its power and authority set forth in this act, the purpose of the Agency is to do any and every act necessary so that sufficient water may be available for any present or future beneficial use of lands and inhabitants of the Agency, including, but not limited to, construction, maintenance, alteration, purchase, and operation of any and all works or improvements within the Agency necessary or proper to carry out any object or purpose of this act; and the gathering of data for, and the development and implementation of, after consultation and coordination with all public and private water entities who are in any way affected, management and master plans to mitigate the cumulative overdraft of groundwater basins, to monitor the condition of the groundwater basins, to pursue all necessary water conservation measures, and to negotiate for additional water supplies from all state, federal, and local sources. The Agency is governed by a seven-member Board of Directors who serves overlapping four-year terms.

In 1994, to administer the provisions of the groundwater adjudication judgment, the Superior Court of Riverside appointed the Agency as the Mojave Basin Area Watermaster (Watermaster) and ordered the Watermaster to formulate a plan and program for management of the Basin's resources. Although the Watermaster is legally separate, it is included as a blended component unit of the Agency, as it is in substance part of the Agency's operations as it is governed by the same Board of Directors. Complete financial statements for the Agency are available at the Agency's office or upon request of the Agency's Chief Financial Officer at 13846 Conference Center Drive, Apple Valley, CA 92307.

**B. Basis of Accounting and Measurement Focus**

The Watermaster reports its activities as an enterprise fund, which is used to account for operations that are financed and operated in a manner similar to a private business enterprise, where the intent of the Watermaster is that the costs of delivering wholesale water to its service area on a continuing basis be financed or recovered primarily through user charges (assessments). Revenues and expenses are recognized on the full accrual basis of accounting. Revenues are recognized in the accounting period in which they are earned and expenses are recognized in the period incurred, regardless of when the related cash flows take place.

Operating revenues and expenses, such as Watermaster assessments, result from exchange transactions associated with the principal activity of the Agency. Exchange transactions are those in which each party receives and gives up essentially equal values. The principal operating revenues of the Watermaster are water sales (assessments) to member water right holders. Management, administration and depreciation expenses are also considered operating expenses. Other revenues and expenses not included in the above categories are reported as non-operating revenues and expenses.

**C. Financial Reporting**

The Watermaster's basic financial statements have been prepared in conformity with accounting principles generally accepted in the United States of America (GAAP), as applied to enterprise funds. The Governmental Accounting Standards Board (GASB) is the accepted standard-setting body for establishing governmental accounting and financial reporting principles. The Watermaster solely operates as a special-purpose government which means it is only engaged in business-type activities; accordingly, activities are reported in the Watermaster's proprietary fund.

**Note 1: Reporting Entity and Summary of Significant Accounting Policies, continued**

**D. Assets, Liabilities, and Net Position**

*Use of Estimates*

The preparation of the basic financial statements in conformity with generally accepted accounting principles requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosures of contingent assets and liabilities at the date of the financial statements and the reported changes in net position during the reporting period. Actual results could differ from those estimates.

*Cash and Cash Equivalents*

Substantially all of the Watermaster's cash is invested in interest bearing accounts. The Watermaster considers all highly liquid investments with a maturity of three months or less to be cash equivalents.

*Investments*

Changes in fair value that occur during a fiscal year are recognized as investment income reported for that fiscal year. Investment income includes interest earnings, changes in fair value, and any gains or losses realized upon the liquidation or sale of investments.

*Fair Value Measurements*

The Watermaster categorizes its fair value measurements within the fair value hierarchy established by generally accepted accounting principles. The hierarchy is based on valuation inputs used to measure the fair value of the asset, as follows:

- Level 1 – Valuation is based on quoted prices in active markets for identical assets.
- Level 2 – Valuation is based on directly observable and indirectly observable inputs. These inputs are derived principally from or corroborated by observable market data through correlation or market-corroborated inputs. The concept of market-corroborated inputs incorporates observable market data such as interest rates and yield curves that are observable at commonly quoted intervals.
- Level 3 – Valuation is based on unobservable inputs where assumptions are made based on factors such as prepayment rates, probability of defaults, loss severity and other assumptions that are internally generated and cannot be observed in the market.

*Accounts Receivable and Allowance for Uncollectible Accounts*

The Watermaster extends credit to customers in the normal course of operations. When management deems customer accounts uncollectible, the Watermaster uses the allowance method for the reservation and write-off of those accounts.

**Note 1: Reporting Entity and Summary of Significant Accounting Policies, continued**

*Net Position*

The financial statements utilize a net position presentation. Net position is categorized as follows:

- Net Investment in Capital Assets – This component of net position consists of capital assets, net of accumulated depreciation and reduced by any debt outstanding against the acquisition, construction or improvement of those assets.
- Restricted – This component of net position consists of constraints placed on net position use through external constraints imposed by creditors (such as through debt covenants), grantors, contributors, or laws or regulations of other governments or constraints imposed by law through constitutional provisions or enabling legislation.
- Unrestricted – This component of net position consists of net position that does not meet the definition of *restricted* net position or *net investment in capital assets*.

*Reclassification*

The Watermaster has reclassified certain prior year information to conform with current year presentation, with no effect on net position.

**Note 2: Cash and Cash Equivalents**

***Investment in State Investment Pool***

The Watermaster is a voluntary participant in the Local Agency Investment Fund (LAIF) that is regulated by the California Government Code under the oversight of the Treasurer of the State of California. The fair value of the Watermaster's investment in this pool is reported in the accompanying financial statements at amounts based upon the Agency's pro-rata share of the fair value provided by LAIF for the entire LAIF portfolio (in relation to the amortized cost of that portfolio). The balance available for withdrawal is based on the accounting records maintained by LAIF, which are recorded on an amortized cost basis.

The Watermaster's deposit and withdrawal restrictions and limitations are as follows:

- Same day transaction processing occurs for orders received before 10:00 a.m.
- Next day transactions processing occurs for orders received after 10:00 a.m.
- Maximum limit of 15 transactions (combination of deposits and withdrawals) per month.
- Minimum transaction amount requirement of \$5,000, in increments of a \$1,000 dollars.
- Withdrawals of \$10,000,000 or more require 24 hours advance.
- Prior to funds transfer, an authorized person must call LAIF to do a verbal transaction.

**Mojave Basin Area Watermaster**  
**Notes to the Financial Statements**  
**For the Fiscal Year Ended June 30, 2018 (with comparative data for 2017)**

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**Note 2: Cash and Cash Equivalents, continued**

***Custodial Credit Risk***

Custodial credit risk for *deposits* is the risk that, in the event of the failure of a depository financial institution, a government will not be able to recover its deposits or will not be able to recover collateral securities that are in the possession of an outside party. The California Government Code and the Watermaster's investment policy does not contain legal or policy requirements that would limit the exposure to custodial credit risk for deposits, other than the following provision for deposits:

The California Government Code requires that a financial institution secure deposits made by state or local governmental units by pledging securities in an undivided collateral pool held by a depository regulated under state law (unless so waived by the governmental unit). The market value of the pledged securities in the collateral pool must equal at least 110% of the total amount deposited by the public agencies. Of the bank balances, up to \$250,000 is federally insured and the remaining balance is collateralized in accordance with the Code; however, the collateralized securities are not held in the Watermaster's name.

Cash and cash equivalents as of June 30, are classified in the accompanying financial statements as follows:

	<u>2018</u>	<u>2017</u>
Restricted - cash and cash equivalents	\$ 1,518,504	\$ 1,377,329
Total cash and investments	<u>\$ 1,518,504</u>	<u>\$ 1,377,329</u>

Cash and cash equivalents as of June 30, consist of the following:

	<u>2018</u>	<u>2017</u>
Demand deposits with financial institutions	\$ 581,747	\$ 450,759
Local Agency Investment Fund (LAIF)	<u>936,757</u>	<u>926,570</u>
Total cash and investments	<u>\$ 1,518,504</u>	<u>\$ 1,377,329</u>

At June 30, the Watermaster's authorized deposits had the following maturities:

	<u>2018</u>	<u>2017</u>
Deposits held with California Local Agency Investment Fund (LAIF)	193 days	194 days

The custodial credit risk for investments is the risk that, in the event of the failure of the counterparty (e.g., broker-dealer) to a transaction, a government will not be able to recover the value of its investment or collateral securities that are in the possession of another party. The Code and the Watermaster's investment policy contain legal and policy requirements that would limit the exposure to custodial credit risk for investments. With respect to investments, custodial credit risk generally applies only to direct investments in marketable securities. Custodial credit risk does not apply to a local government's indirect investment in securities through the use of mutual funds or government investment pools (such as LAIF).



**Mojave Basin Area Watermaster**  
**Notes to the Financial Statements**  
**For the Fiscal Year Ended June 30, 2018 (with comparative data for 2017)**

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**Note 2: Cash and Investments, continued**

**Interest Rate Risk**

Interest rate risk is the risk that changes in market interest rates will adversely affect the fair value of an investment. Generally, the longer the maturity of an investment the greater the sensitivity of its fair value to changes in market interest rates. One of the ways that the Watermaster manages its exposure to interest rate risk is by purchasing a combination of shorter term and longer term investments and by timing cash flows from maturities so that a portion of the portfolio matures or comes close to maturity evenly over time as necessary to provide for cash flow requirements and liquidity needed for operations.

**Credit Risk**

Credit risk is the risk that an issuer of an investment will not fulfill its obligation to the holder of the investment. This is measured by the assignment of a rating by a nationally recognized statistical rating organization. LAIF is not rated.

**Concentration of Credit Risk**

The investment policy of the Watermaster contains no limitations on the amount that can be invested in any one issuer beyond that stipulated by the California Government Code. At June 30, 2018 and 2017, the Watermaster did not hold any investments in any one issuer (other than external pools) that represent 5% or more of total Watermaster investments.

**Note 3: Accounts Payable and Other Accrued Expenses**

Accounts payable and accrued expenses at June 30, consisted of the following:

	<u>2018</u>	<u>2017</u>
Replacement water deliveries	\$ 69,974	\$ 16,359
Other accounts payable	<u>157,489</u>	<u>113,007</u>
Total accounts payable and accrued expenses	<u>\$ 227,463</u>	<u>\$ 129,366</u>

**Note 4: Net Position**

Calculation of net position as of June 30, was as follows:

	<u>2018</u>	<u>2017</u>
Restricted net position:		
Administrative	\$ 286,891	\$ 263,882
Biological resources trust	711,337	641,223
Replacement water	370,796	368,160
Make-up water	<u>4,535</u>	<u>4,594</u>
Total restricted net position	<u>\$ 1,373,559</u>	<u>\$ 1,277,859</u>

**Note 5: Risk Management**

The Watermaster is exposed to various risks of loss related to torts, theft of, damage to and destruction of assets; errors and omissions; injuries to employees; and natural disasters. The Watermaster is a member of the Association of California Water Agencies/Joint Powers Insurance Authority (ACWA/JPIA), an intergovernmental risk sharing joint powers authority created to provide self-insurance programs for California water agencies. The purpose of the ACWA/JPIA is to arrange and administer programs of self-insured losses and to purchase excess insurance coverage.

At June 30, 2018, the Watermaster participates in the ACWA/JPIA pooled programs for liability, and property programs as follows:

- General and auto liability, public officials and employees' errors and omissions: Total risk financing self-insurance limits of \$5,000,000 per occurrence. The ACWA/JPIA purchased additional excess coverage layers: \$55 million for general, auto and public officials liability, which increases the limits on the insurance coverage noted above.

In addition, the Watermaster also has the following insurance coverage:

- Crime coverage up to \$100,000 per loss includes public employee dishonesty, depositor's forgery or alteration, theft, computer and funds transfer fraud coverage's, subject to \$1,000 deductible per loss.
- Property loss is paid at the replacement cost for property on file, if replaced within two years after the loss, otherwise paid on an actual cash value basis, to a combined total of \$150 million per loss, subject to a \$1,000 deductible per loss. Mobile equipment and vehicles, on file, are paid on actual cost value basis at time of loss and subject to \$1,000 deductible per loss.
- Boiler and machinery coverage for the replacement cost up to \$150 million per occurrence, subject to various deductibles depending on the type of equipment, on file.

The Watermaster has purchased workers' compensation insurance coverage for injuries to employees through the Special District Risk Management Association (SDRMA), an intergovernmental risk sharing joint powers authority created to provide self-insurance programs for California special districts. The purpose of the SDRMA is to arrange and administer programs of self-insured losses and to purchase excess insurance coverage. At June 30, 2018, the Watermaster participated in the workers' compensation programs of the SDRMA as follows:

- Workers' compensation coverage up to California statutory limits for all work related injuries/illnesses covered by California law and employers liability limit of \$5,000,000 per occurrence.

Settled claims have not exceeded any of the coverage amounts in any of the last three fiscal years and there were no reductions in the Watermaster's insurance coverage during the years ending June 30, 2018, 2017 and 2016. Liabilities are recorded when it is probable that a loss has been incurred and the amount of the loss can be reasonably estimated net of the respective insurance coverage. Liabilities include an amount for claims that have been incurred but not reported (IBNR). There were no IBNR claims payable as of June 30, 2018, 2017, and 2016, respectively

**Note 6: Litigation**

In the ordinary course of operations, the Watermaster is subject to claims and litigation from outside parties. After consultation with legal counsel, the Watermaster believes the ultimate outcome of such matters, if any, will not materially affect its financial condition.

## **Report on Internal Controls and Compliance**



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## REPORT ON INTERNAL CONTROL OVER FINANCIAL REPORTING AND ON COMPLIANCE AND OTHER MATTERS BASED ON AN AUDIT OF FINANCIAL STATEMENTS PERFORMED IN ACCORDANCE WITH GOVERNMENT AUDITING STANDARDS

### Independent Auditor's Report

#### PARTNERS

Michael L. Olson, CPA, PFS  
Gregory D. Olson, CPA  
Nancy A. Evans, CPA  
Scott W. Plamondon, CPA, CFRE  
James S. Shilling, CPA, PFS, CFP®  
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#### MANAGERS (S.F.B.F.)

James L. L. PA, PFS  
Robert F. Wood, CPA, PFS  
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Elizabeth E. Smith, CPA  
Deanna J. Smith, CPA  
Lisa D. Simpson, CPA, PFS  
James C. Simpson, CPA  
Gregory D. Olson

Board of Directors  
Mojave Basin Area Watermaster  
Apple Valley, California

We have audited, in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards* issued by the Comptroller General of the United States, the financial statements of the Mojave Basin Area Watermaster (the Watermaster) as of and for the year ended June 30, 2018, and the related notes to the financial statements, which collectively comprise the Watermaster's basic financial statements, and have issued our report thereon dated October 23, 2018.

### Internal Control over Financial Reporting

In planning and performing our audit of the financial statements, we considered the Watermaster's internal control over financial reporting (internal control) to determine the audit procedures that are appropriate in the circumstances for the purpose of expressing our opinions on the financial statements, but not for the purpose of expressing an opinion on the effectiveness of the Watermaster's internal control. Accordingly, we do not express an opinion on the effectiveness of the Watermaster's internal control.

A *deficiency in internal control* exists when the design or operation of a control does not allow management or employees in the normal course of performing their assigned functions, to prevent, or detect and correct misstatements on a timely basis. A *material weakness* is a deficiency, or a combination of deficiencies, in internal control, such that there is a reasonable possibility that a material misstatement of the entity's financial statements will not be prevented, or detected and corrected on a timely basis. A *significant deficiency* is a deficiency, or a combination of deficiencies, in internal control that is less severe than a material weakness, yet important enough to merit attention by those charged with governance.

Our consideration of internal control over financial reporting was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control over financial reporting that might be material weaknesses or significant deficiencies. Given these limitations, during our audit we did not identify any deficiencies in internal control over financial reporting that we consider to be material weaknesses. However, material weaknesses may exist that have not been identified.

#### MEMBERS

American Institute of  
Certified Public Accountants

CPA, The AICPA Website  
By CPA Firm

Governmental Accounting  
Standards Board

Governmental Accounting  
Standards Board

Governmental Accounting  
Standards Board



### ***Compliance and Other Matters***

As part of obtaining reasonable assurance about whether the Watermaster's financial statements are free from material misstatement, we performed tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements, noncompliance with which could have a direct and material effect on the determination of financial statement amounts. However, providing an opinion on compliance with those provisions was not an objective of our audit and, accordingly, we do not express such an opinion. The results of our tests disclosed no instances of noncompliance or other matters that are required to be reported under *Government Auditing Standards*.

### **Purpose of this Report**

The purpose of this report is solely to describe the scope of our testing of internal control and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the entity's internal control or on compliance. This report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the entity's internal control and compliance. Accordingly, this communication is not suitable for any other purpose.

*Rogers, Anderson, Malody & Scott, LLP.*

San Bernardino, California  
October 23, 2018

## **APPENDIX H**

**FREE PRODUCTION ALLOWANCE FOR WATER YEAR 2018-19**

**AND PROPOSED FREE PRODUCTION ALLOWANCE**

**FOR WATER YEAR 2019-20**

**APPENDIX H**  
**FREE PRODUCTION ALLOWANCE FOR WATER YEAR 2018-19**  
**AND**  
**PROPOSED FREE PRODUCTION ALLOWANCE FOR WATER YEAR 2019-20**  
**(ALL AMOUNTS IN ACRE-FEET)**  
**ESTE SUBAREA**

**REVISED**  
**by Court Order**  
**of July 23, 2019**

PRODUCER	BASE ANNUAL PRODUCTION	2018-19 FREE PRODUCTION ALLOWANCE <sup>1</sup>				2019-20 FREE PRODUCTION ALLOWANCE <sup>2</sup>	
		CARRYOVER FROM PREVIOUS YEAR	FREE PRODUCTION ALLOWANCE		TOTAL	ACRE-FEET	PERCENTAGE OF BAP
			ACRE-FEET	PERCENTAGE OF BAP			
ABDUL, HARRY AND ANITA	194	156	156	80%	312	146	75%
ABSHIRE, DAVID V.	24	20	20	80%	40	18	75%
AHN REVOCABLE LIVING TRUST	0	0	0	80%	0	0	75%
AHN REVOCABLE TRUST	28	23	23	80%	46	21	75%
AHN, CHUN SOO AND DAVID	400	320	320	80%	640	300	75%
ANDERSON, ROSS C. AND BETTY J.	34	28	28	80%	56	26	75%
AVILA, ANGEL AND EVALIA	573	459	459	80%	918	430	75%
BAR H MUTUAL WATER COMPANY	53	43	43	80%	86	40	75%
BELL, CHUCK	494	396	396	80%	792	371	75%
BRACHT, WILLIAM F. AND ALEXANDER, ALICIA M.	50	21	40	80%	61	38	75%
CASA COLINA FOUNDATION	90	72	72	80%	144	68	75%
CENTER WATER COMPANY	40	32	32	80%	64	30	75%
CHUNG, ET AL.	0	0	0	80%	0	0	75%
CLUB VIEW PARTNERS	1,276	1,021	1,021	80%	2,042	957	75%
CROSS, SHARON I.	23	19	19	80%	38	18	75%
DACOSTA, DEAN EDWARD	56	45	45	80%	90	42	75%
DAHLQUIST, GEORGE R.	594	476	476	80%	952	446	75%
DESERT DAWN MUTUAL WATER COMPANY	15	0	12	80%	12	12	75%
DESERT SPRINGS MUTUAL WATER COMPANY	78	63	63	80%	126	59	75%
DJC CORPORATION	66	53	53	80%	106	50	75%
GABRYCH, EUGENE	2,201	1,761	1,761	80%	3,522	1,651	75%
GAETA, MIGUEL AND MARIA	1,500	1,200	1,200	80%	2,400	1,125	75%
GAETA, TRINIDAD	512	410	410	80%	820	384	75%
GARDENA MISSION CHURCH, INC.	0	0	0	80%	0	0	75%
GAYJIKIAN, SAMUEL AND HAZEL	102	82	82	80%	164	77	75%
GOLDEN STATE WATER COMPANY	178	143	143	80%	286	134	75%
GORDON ACRES WATER COMPANY	54	44	44	80%	88	41	75%
GUBLER, HANS	30	24	24	80%	48	23	75%



**APPENDIX H**

JULY 23, 2019

**FREE PRODUCTION ALLOWANCE FOR WATER YEAR 2018-19  
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(ALL AMOUNTS IN ACRE-FEET)**

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by Court Order  
of July 23, 2019**

PRODUCER	BASE ANNUAL PRODUCTION	2018-19 FREE PRODUCTION ALLOWANCE <sup>1</sup>				2019-20 FREE PRODUCTION ALLOWANCE <sup>2</sup>	
		CARRYOVER FROM PREVIOUS YEAR	FREE PRODUCTION ALLOWANCE		TOTAL	ACRE-FEET	PERCENTAGE OF BAP
			ACRE-FEET	PERCENTAGE OF BAP			
HAL-DOR LTD.	23	19	19	80%	38	18	75%
HARVEY, LISA M.	300	240	240	80%	480	225	75%
HERT, SCOTT	276	221	221	80%	442	207	75%
HI-GRADE MATERIALS COMPANY	442	354	354	80%	708	332	75%
HITCHIN LUCERNE, INC.	16	13	13	80%	26	12	75%
JUBILEE MUTUAL WATER COMPANY	142	45	114	80%	159	107	75%
JUNIPER RIVIERA COUNTY WATER DISTRICT	37	6	30	80%	36	28	75%
KIM, JU SANG	30	24	24	80%	48	23	75%
LEE, ANNA K. AND ESHBAN K.	33	27	27	80%	54	25	75%
LEE, DOO HWAN	78	63	63	80%	126	59	75%
LOPEZ, BALTAZAR	385	308	308	80%	616	289	75%
LUA, MICHAEL T. AND DONNA S.	348	279	279	80%	558	261	75%
LUCERNE VALLEY MUTUAL WATER COMPANY	54	44	44	80%	88	41	75%
LUCERNE VALLEY PARTNERS	1,213	971	971	80%	1,942	910	75%
LUCERNE VISTA MUTUAL WATER COMPANY	21	15	17	80%	32	16	75%
M.B. LANDSCAPING AND NURSERY, INC.	1,773	1,419	1,419	80%	2,838	1,330	75%
MITSUBISHI CEMENT CORPORATION	1,395	1,116	1,116	80%	2,232	1,047	75%
MONACO INVESTMENT COMPANY	70	56	56	80%	112	53	75%
MOSS, LAWRENCE W. AND HELEN J.	43	35	35	80%	70	33	75%
NORRIS TRUST, MARY ANN	73	59	59	80%	118	55	75%
OASIS WORLD MISSION	0	0	0	80%	0	0	75%
OMYA CALIFORNIA, INC.	23	0	19	80%	19	18	75%
PAK, KAE SOO AND MYONG HUI KANG	247	198	198	80%	396	186	75%
PETTIGREW, DAN	22	18	18	80%	36	17	75%
PETTIGREW, JAMES AND CHERLYN	500	400	400	80%	800	375	75%
REED, MIKE	58	47	47	80%	94	44	75%
RHEE, ANDREW N.	0	0	0	80%	0	0	75%
ROBERTSON'S READY MIX	0	0	0	80%	0	0	75%

**APPENDIX H**

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**FREE PRODUCTION ALLOWANCE FOR WATER YEAR 2018-19  
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**ESTE SUBAREA**

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PRODUCER	BASE ANNUAL PRODUCTION	2018-19 FREE PRODUCTION ALLOWANCE <sup>1</sup>				2019-20 FREE PRODUCTION ALLOWANCE <sup>2</sup>	
		CARRYOVER FROM PREVIOUS YEAR	FREE PRODUCTION ALLOWANCE		TOTAL	ACRE-FEET	PERCENTAGE OF BAP
			ACRE-FEET	PERCENTAGE OF BAP			
ROYAL WAY	200	160	160	80%	320	150	75%
S AND E 786 ENTERPRISES, LLC	597	478	478	80%	956	448	75%
SABA, SABA A. AND SHIRLEY L.	1,120	896	896	80%	1,792	840	75%
SAN BERNARDINO COUNTY SERVICE AREA 29	40	0	32	80%	32	30	75%
SON'S RANCH	140	112	112	80%	224	105	75%
SPECIALTY MINERALS, INC.	42	0	34	80%	34	32	75%
SPILLMAN, JAMES R. AND NANCY J.	23	19	19	80%	38	18	75%
THE CUSHENBURY TRUST, C/O SPECIALTY MINERALS, INC.	10	8	8	80%	16	8	75%
WEISER, ET AL.	90	0	72	80%	72	68	75%
WEST END MUTUAL WATER COMPANY	30	23	24	80%	47	23	75%
WILSHIRE ROAD PARTNERS	692	554	554	80%	1,108	519	75%
<b>TOTAL</b>	<b>19,251</b>	<b>15,138</b>	<b>15,422</b>		<b>30,560</b>	<b>14,459</b>	

**APPENDIX H**

JULY 23, 2019

**FREE PRODUCTION ALLOWANCE FOR WATER YEAR 2018-19  
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**OESTE SUBAREA**

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PRODUCER	BASE ANNUAL PRODUCTION	2018-19 FREE PRODUCTION ALLOWANCE <sup>1</sup>				2019-20 FREE PRODUCTION ALLOWANCE <sup>2</sup>	
		CARRYOVER FROM PREVIOUS YEAR	FREE PRODUCTION ALLOWANCE		TOTAL	ACRE-FEET	PERCENTAGE OF BAP
			ACRE-FEET	PERCENTAGE OF BAP			
AEROCHEM, INC.	660	328	528	80%	856	495	75%
BROWN, SUE AND DOUG	46	37	37	80%	74	35	75%
CHAMISAL MUTUAL WATER COMPANY	96	5	77	80%	82	72	75%
HANDRINOS, NICOLE A.	7	6	6	80%	12	6	75%
HETTINGA REVOCABLE TRUST	1,256	301	1,005	80%	1,306	942	75%
PHELAN PIÑON HILLS COMMUNITY SERVICES DISTRICT (SEE NOTE 3)	4,680	3,744	3,744	80%	7,488	3,510	75%
TROEGER FAMILY TRUST, RICHARD H.	112	90	90	80%	180	84	75%
<b>TOTAL</b>	<b>6,857</b>	<b>4,511</b>	<b>5,487</b>		<b>9,998</b>	<b>5,144</b>	

**APPENDIX H**

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**ALTO SUBAREA**

PRODUCER	BASE ANNUAL PRODUCTION	2018-19 FREE PRODUCTION ALLOWANCE <sup>1</sup>				2019-20 FREE PRODUCTION ALLOWANCE <sup>2</sup>	
		CARRYOVER FROM PREVIOUS YEAR	FREE PRODUCTION ALLOWANCE		TOTAL	ACRE-FEET	PERCENTAGE OF BAP
			ACRE-FEET	PERCENTAGE OF BAP			
ADELANTO, CITY OF	5,182	0	3,110	60%	3,110	2,851	55%
ADES, JOHN AND DEVON	37	24	30	80%	54	28	75%
AGCON, INC.	384	0	231	60%	231	212	55%
AMERICAN STATES WATER COMPANY	1,000	600	600	60%	1,200	550	55%
APPLE VALLEY FOOTHILL COUNTY WATER DISTRICT	167	11	101	60%	112	92	55%
APPLE VALLEY HEIGHTS COUNTY WATER DISTRICT	125	0	75	60%	75	69	55%
APPLE VALLEY UNIFIED SCHOOL DISTRICT	0	0	0	60%	0	0	55%
APPLE VALLEY VIEW MUTUAL WATER COMPANY	36	0	22	60%	22	20	55%
APPLE VALLEY, TOWN OF	1,082	563	650	60%	1,213	596	55%
AQUA CAPITAL MANAGEMENT, LP-AGRICULTURE	72	0	58	80%	58	54	75%
AQUA CAPITAL MANAGEMENT, LP-INDUSTRIAL	185	0	111	60%	111	102	55%
BASS TRUST, NEWTON T.	514	410	412	80%	822	386	75%
BASTIANON REVOCABLE TRUST	77	61	62	80%	123	58	75%
BEEBE, ROBERT W. AND DOROTHY K.	6	5	5	80%	10	5	75%
BEINSCHROTH FAMILY TRUST	800	593	640	80%	1,233	600	75%
BOX, GEARY S. AND LAURA (FORMERLY: PEARSON, DERYL B.)	22	18	18	80%	36	17	75%
BROWN, BOBBY G. AND VALERIA R.	42	33	34	80%	67	32	75%
BROWN, JENNIFER	41	29	33	80%	62	31	75%
BRUNEAU, KAREN	10	8	8	80%	16	8	75%
BRYANT, IAN	29	24	24	80%	48	22	75%
BUNNELL, DICK	24	18	20	80%	38	18	75%
CALMAT COMPANY	25	11	15	60%	26	14	55%
CALPORTLAND COMPANY - AGRICULTURE	643	515	515	80%	1,030	483	75%
CALPORTLAND COMPANY - ORO GRANDE PLANT	2,809	1,127	1,686	60%	2,813	1,545	55%
CDFW - MOJAVE NARROWS REGIONAL PARK	2,107	0	1,265	60%	1,265	1,159	55%
CDFW - MOJAVE RIVER FISH HATCHERY	20	0	16	80%	16	15	75%
CEMEX, INC.	1,499	0	900	60%	900	825	55%

**APPENDIX H**

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		CARRYOVER FROM PREVIOUS YEAR	FREE PRODUCTION ALLOWANCE		TOTAL	ACRE-FEET	PERCENTAGE OF BAP
			ACRE-FEET	PERCENTAGE OF BAP			
DOLCH, ROBERT AND JUDY	100	76	80	80%	156	75	75%
DORA LAND, INC.	15	12	12	80%	24	12	75%
EAST DESERT LAND COMPANY, LLC (SEE NOTE 4)	0						
EVENSON, EDWIN H. AND JOYCELAINE C.	70	56	56	80%	112	53	75%
FEDERAL BUREAU OF PRISONS, VICTORVILLE	686	0	412	60%	412	378	55%
FISCHER REVOCABLE LIVING TRUST	36	28	29	80%	57	27	75%
FISHER TRUST, JEROME R.	633	507	507	80%	1,014	475	75%
FITZWATER, R. E. (SEE NOTE 4)	291						
FRAZIER, ET AL.	50	40	40	80%	80	38	75%
GOLDEN STATE WATER COMPANY	940	0	564	60%	564	517	55%
GREEN ACRES ESTATES	25	15	15	60%	30	14	55%
GULBRANSON, MERLIN	5	4	4	80%	8	4	75%
HAAS, BRYAN C. AND HINKLE, MARY H.	9	8	8	80%	16	7	75%
HALANNA EQUITIES III	19	10	16	80%	26	15	75%
HAMILTON FAMILY TRUST	108	72	87	80%	159	81	75%
HELENDALE COMMUNITY SERVICES DISTRICT	3,707	686	2,225	60%	2,911	2,039	55%
HELENDALE SCHOOL DISTRICT	18	11	11	60%	22	10	55%
HESPERIA - GOLF COURSE, CITY OF	678	0	407	60%	407	373	55%
HESPERIA VENTURE I, LLC	0	0	0	80%	0	0	75%
HESPERIA WATER DISTRICT	13,914	0	8,349	60%	8,349	7,653	55%
HESPERIA, CITY OF	6,736	4,042	4,042	60%	8,084	3,705	55%
HI-GRADE MATERIALS COMPANY	149	72	90	60%	162	82	55%
HOLWAY JEFFREY R AND PATRICIA GAGE	8	7	7	80%	14	6	75%
HOLWAY, JEFFREY R	11	9	9	80%	18	9	75%
HUNT, CONNIE	66	53	53	80%	106	50	75%
JAMBOREE HOUSING CORPORATION	0	0	0	60%	0	0	55%
JESS RANCH WATER COMPANY	7,230	3,679	4,338	60%	8,017	3,977	55%

**APPENDIX H**  
**FREE PRODUCTION ALLOWANCE FOR WATER YEAR 2018-19**  
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**ALTO SUBAREA**

**REVISED**  
**by Court Order**  
**of July 23, 2019**

PRODUCER	BASE ANNUAL PRODUCTION	2018-19 FREE PRODUCTION ALLOWANCE <sup>1</sup>				2019-20 FREE PRODUCTION ALLOWANCE <sup>2</sup>	
		CARRYOVER FROM PREVIOUS YEAR	FREE PRODUCTION ALLOWANCE		TOTAL	ACRE-FEET	PERCENTAGE OF BAP
			ACRE-FEET	PERCENTAGE OF BAP			
JOHNSON, CARLEAN	23	3	19	80%	22	18	75%
JOHNSON, RONALD	31	25	25	80%	50	24	75%
JOHNSTON, HARRIET AND JOHNSTON, LAWRENCE W.	127	98	102	80%	200	96	75%
KANESAKA, KENJI AND YUKARI	0	0	0	80%	0	0	75%
KEMPER CAMPBELL RANCH	473	236	379	80%	615	355	75%
LAGUNA WATER II, LTD. (FORMERLY: AQUA CAPITAL MANGEMENT, LP - AGRICULTURE)	200	0	160	80%	160	150	75%
LAKE ARROWHEAD COMMUNITY SERVICES DISTRICT	658	527	527	80%	1,054	494	75%
LANGLEY, JAMES	5	4	4	80%	8	4	75%
LANGLEY, JAMES - INDUSTRIAL	0	0	0	60%	0	0	55%
LAWSON, ERNEST AND BARBARA	15	11	12	80%	23	12	75%
LENHERT, RONALD AND TONI	37	30	30	80%	60	28	75%
LHC ALLIGATOR, LLC	498	399	399	80%	798	374	75%
LIBERTY UTILITIES (APPLE VALLEY RANCHOS WATER) CORP.	13,610	2,549	8,166	60%	10,715	7,486	55%
LOW, DEAN	199	160	160	80%	320	150	75%
LUCKEY 2010 REVOCABLE TRUST	300	239	240	80%	479	225	75%
MARIANA RANCHOS COUNTY WATER DISTRICT	245	0	147	60%	147	135	55%
MCINNIS, WILLIAM S.	30	17	24	80%	41	23	75%
MCKINNEY, PAULA	33	27	27	80%	54	25	75%
MLH, LLC	13	6	11	80%	17	10	75%
MOJAVE WATER AGENCY	0	0	0	60%	0	0	55%
NAVAJO MUTUAL WATER COMPANY	88	53	53	60%	106	49	55%
NUÑEZ, LUIS SEGUNDO	0	0	0	80%	0	0	75%
NUNN FAMILY TRUST	36	28	29	80%	57	27	75%
ORO GRANDE SCHOOL DISTRICT	107	65	65	60%	130	59	55%
PERRY REVOCABLE LIVING TRUST, THOMAS AND PATRICIA	0	0	0	80%	0	0	75%
PHELAN PIÑON HILLS COMMUNITY SERVICES DISTRICT	355	123	213	60%	336	196	55%
PITTMAN, LEROY W.	148	119	119	80%	238	111	75%

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ALTO SUBAREA**

**REVISED  
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PRODUCER	BASE ANNUAL PRODUCTION	2018-19 FREE PRODUCTION ALLOWANCE <sup>1</sup>				2019-20 FREE PRODUCTION ALLOWANCE <sup>2</sup>	
		CARRYOVER FROM PREVIOUS YEAR	FREE PRODUCTION ALLOWANCE		TOTAL	ACRE-FEET	PERCENTAGE OF BAP
			ACRE-FEET	PERCENTAGE OF BAP			
POLICH, DONNA	65	52	52	80%	104	49	75%
RANCHERITOS MUTUAL WATER COMPANY	169	0	102	60%	102	93	55%
RIM PROPERTIES, A GENERAL PARTNERSHIP	9	8	8	80%	16	7	75%
RUE RANCH	30	24	24	80%	48	23	75%
SAN BERNARDINO COUNTY - HIGH DESERT DETENTION CENTER	0	0	0	60%	0	0	55%
SAN BERNARDINO COUNTY SERVICE AREA 42	465	213	279	60%	492	256	55%
SAN BERNARDINO COUNTY SERVICE AREA 64	3,822	0	2,294	60%	2,294	2,103	55%
SAN BERNARDINO COUNTY SERVICE AREA 70J	1,015	0	609	60%	609	559	55%
SAPP, ROBERT D. AND LEE, TERESA J.	42	27	34	80%	61	32	75%
SCRAY, MICHELLE A. TRUST	15	11	12	80%	23	12	75%
SERVICE ROCK PRODUCTS CORPORATION	20	7	12	60%	19	11	55%
SHEEP CREEK WATER COMPANY	0	0	0	60%	0	0	55%
SILVER LAKES ASSOCIATION	4,987	0	2,993	60%	2,993	2,743	55%
SNOWBALL DEVELOPMENT, INC.	0	0	0	80%	0	0	75%
SPRING VALLEY LAKE ASSOCIATION	3,768	0	2,261	60%	2,261	2,073	55%
SPRING VALLEY LAKE COUNTRY CLUB	977	35	587	60%	622	538	55%
STORM, RANDALL	62	50	50	80%	100	47	75%
SUDMEIER, GLENN W.	20	15	16	80%	31	15	75%
SUMMIT VALLEY RANCH, LLC	57	27	46	80%	73	43	75%
THOMPSON LIVING TRUST, JAMES A. AND SULA B.	418	334	335	80%	669	314	75%
THOMPSON LIVING TRUST, R.L. AND R.A.	2	0	2	80%	2	2	75%
THRASHER, GARY	373	284	299	80%	583	280	75%
THUNDERBIRD COUNTY WATER DISTRICT	118	0	71	60%	71	65	55%
TRANSAMERICA FIN'L SVC - SPEARS, LARRY B. AND ERLINDA	26	21	21	80%	42	20	75%
VANHOOPS HOLDINGS, LP	360	288	288	80%	576	270	75%
VICTOR VALLEY COMMUNITY COLLEGE DISTRICT	240	0	144	60%	144	132	55%
VICTOR VALLEY MEMORIAL PARK	0	0	0	60%	0	0	55%
VICTORVILLE WATER DISTRICT, ID#1	23,020	0	13,812	60%	13,812	12,661	55%

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**ALTO SUBAREA**

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PRODUCER	BASE ANNUAL PRODUCTION	2018-19 FREE PRODUCTION ALLOWANCE <sup>1</sup>				2019-20 FREE PRODUCTION ALLOWANCE <sup>2</sup>	
		CARRYOVER FROM PREVIOUS YEAR	FREE PRODUCTION ALLOWANCE		TOTAL	ACRE-FEET	PERCENTAGE OF BAP
			ACRE-FEET	PERCENTAGE OF BAP			
VICTORVILLE WATER DISTRICT, ID#2	2,932	0	1,760	60%	1,760	1,613	55%
VOGLER, ALBERT H.	62	49	50	80%	99	47	75%
WAGNER LIVING TRUST	1,224	980	980	80%	1,960	918	75%
WAKULA FAMILY TRUST	11	9	9	80%	18	9	75%
WARD, KEN AND BARBARA	65	36	52	80%	88	49	75%
WEST, HOWARD AND SUZY	72	58	58	80%	116	54	75%
WEST, JIMMIE E.	10	7	8	80%	15	8	75%
WESTERN RIVERS CONSERVANCY	10	7	8	80%	15	8	75%
WESTERN WATER COMPANY	15	12	12	80%	24	12	75%
WESTLAND INDUSTRIES, INC.	54	29	33	60%	62	30	55%
WIENER, MELVIN AND MARIAM S.	30	18	18	60%	36	17	55%
WOOD, MICHAEL AND DENISE	0	0	0	80%	0	0	75%
WYATT FAMILY TRUST	70	56	56	80%	112	53	75%
<b>TOTAL</b>	<b>114,308</b>	<b>20,813</b>	<b>70,308</b>		<b>91,121</b>	<b>64,609</b>	



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CENTRO SUBAREA**

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PRODUCER	BASE ANNUAL PRODUCTION	CARRYOVER FROM PREVIOUS YEAR	2018-19 FREE PRODUCTION ALLOWANCE <sup>1</sup>			2019-20 FREE PRODUCTION ALLOWANCE <sup>2</sup>	
			ACRE-FEET	PERCENTAGE OF BAP	TOTAL	ACRE-FEET	PERCENTAGE OF BAP
APPLE VALLEY HEIGHTS COUNTY WATER DISTRICT	29	24	24	80%	48	22	75%
AQUA CAPITAL MANAGEMENT, LP	2,336	1,869	1,869	80%	3,738	1,752	75%
ATCHISON, TOPEKA, SANTA FE RAILWAY COMPANY	120	50	96	80%	146	90	75%
BAR-LEN MUTUAL WATER COMPANY	48	33	39	80%	72	36	75%
BARSTOW COMMUNITY DEVELOPERS, LLC	0	0	0	80%	0	0	75%
BEST, BYRON L.	21	17	17	80%	34	16	75%
BROMMER FAMILY TRUST	361	259	289	80%	548	271	75%
CHAFAR, LARRY R. AND DELINDA C.	46	37	37	80%	74	35	75%
CHOI, YONG IL AND JOUNG AE	38	31	31	80%	62	29	75%
CHONG, JOAN	52	42	42	80%	84	39	75%
CHRISTISON, JOEL	75	60	60	80%	120	57	75%
CONTRATTO, ERSULA	151	120	121	80%	241	114	75%
DARR, JAMES S.	408	327	327	80%	654	306	75%
DE VRIES, NEIL AND MARY FAMILY TRUST	3,800	3,040	3,040	80%	6,080	2,850	75%
DORRANCE, DAVID W. AND TAMELA L.	19	0	16	80%	16	15	75%
EYGNOR, ROBERT E.	50	40	40	80%	80	38	75%
FEDERAL NATIONAL MORTGAGE ASSOCIATION - FANNIE MAE	30	24	24	80%	48	23	75%
FRATES, D. COLE	13	0	11	80%	11	10	75%
FRIEND, JOSEPH AND DEBORAH	60	48	48	80%	96	45	75%
GABRYCH, EUGENE	132	106	106	80%	212	99	75%
GAINES FAMILY TRUST, JACK AND MARY	92	74	74	80%	148	69	75%
GOLDEN STATE WATER COMPANY	14,407	11,526	11,526	80%	23,052	10,806	75%
GRILL, NICHOLAS P. AND MILLIE D.	0	0	0	80%	0	0	75%
GUTIERREZ, JOSE AND GLORIA	130	98	104	80%	202	98	75%
HANIFY, MICHAEL D., DBA - WHITE BEAR RANCH	152	10	122	80%	132	114	75%
HARMSSEN FAMILY TRUST	722	578	578	80%	1,156	542	75%
HARPER LAKE COMPANY VIII	1,433	1,030	1,147	80%	2,177	1,075	75%
HELENDAL COMMUNITY SERVICES DISTRICT	19	0	16	80%	16	15	75%

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PRODUCER	BASE ANNUAL PRODUCTION	2018-19 FREE PRODUCTION ALLOWANCE <sup>1</sup>				2019-20 FREE PRODUCTION ALLOWANCE <sup>2</sup>	
		CARRYOVER FROM PREVIOUS YEAR	FREE PRODUCTION ALLOWANCE		TOTAL	ACRE-FEET	PERCENTAGE OF BAP
			ACRE-FEET	PERCENTAGE OF BAP			
HENSLEY, MARK P.	27	22	22	80%	44	21	75%
HI DESERT MUTUAL WATER COMPANY	34	27	28	80%	55	26	75%
HIGH DESERT ASSOCIATES, INC.	513	411	411	80%	822	385	75%
HILL FAMILY TRUST AND HILL'S RANCH, INC.	2,335	1,868	1,868	80%	3,736	1,752	75%
HOWARD, ET AL.	43	35	35	80%	70	33	75%
HUERTA, HECTOR	656	525	525	80%	1,050	492	75%
JONES, JOETTE	22	18	18	80%	36	17	75%
JORDAN FAMILY TRUST	460	364	368	80%	732	345	75%
KASNER FAMILY LIMITED PARTNERSHIP	421	337	337	80%	674	316	75%
KIM, JIN S. AND HYUN H.	190	152	152	80%	304	143	75%
LEE, ET AL., SEPOONG AND WOO POONG	77	62	62	80%	124	58	75%
LEYERLY, GENEVA (SEE NOTE 4)	65						
MCCOLLUM, CHARLES L.	115	92	92	80%	184	87	75%
MEAD FAMILY TRUST	115	92	92	80%	184	87	75%
MOJAVE SOLAR, LLC	5,239	4,192	4,192	80%	8,384	3,930	75%
MOST FAMILY TRUST	56	45	45	80%	90	42	75%
ODESSA WATER DISTRICT	299	240	240	80%	480	225	75%
OHAI, REYNOLDS AND DOROTHY	137	110	110	80%	220	103	75%
OSTERKAMP, GEROLD (SEE NOTE 4)	260						
PACIFIC GAS AND ELECTRIC COMPANY	4,474	3,580	3,580	80%	7,160	3,356	75%
RIOS, MARIANO V.	8	6	7	80%	13	6	75%
RIVERO, FIDEL V.	20	16	16	80%	32	15	75%
RUISCH TRUST, DALE W. AND NELLIE H.	650	281	520	80%	801	488	75%
RUISCH, ET AL. (SEE NOTE 4)	862						
SERVICE ROCK PRODUCTS CORPORATION	766	613	613	80%	1,226	575	75%
SEXTON, RODNEY A. AND SEXTON, DEREK R.	232	186	186	80%	372	174	75%

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		CARRYOVER FROM PREVIOUS YEAR	FREE PRODUCTION ALLOWANCE		TOTAL	ACRE-FEET	PERCENTAGE OF BAP
			ACRE-FEET	PERCENTAGE OF BAP			
SOPPELAND REVOCABLE TRUST	478	382	383	80%	765	359	75%
SYNAGROW-WWT, INC. (DBA NURSURY PRODUCTS, LLC) (FORMERLY: NURSURY PRODUCTS, LLC)	0	0	0	80%	0	0	75%
TALLAKSON FAMILY REVOCABLE TRUST	17	14	14	80%	28	13	75%
VALENTI, VITO	17	14	14	80%	28	13	75%
VAN DAM REVOCABLE TRUST, E AND S	722	578	578	80%	1,156	542	75%
VAN LEEUWEN, JOHN	1,465	1,052	1,172	80%	2,224	1,099	75%
VERNOLA TRUST, PAT AND MARY ANN	3,116	2,493	2,493	80%	4,986	2,337	75%
VICTORVILLE WATER DISTRICT, ID#1	796	0	637	80%	637	597	75%
WERNER, ANDREW J.	18	0	15	80%	15	14	75%
WESTERN DEVELOPMENT AND STORAGE, LLC	6	0	5	80%	5	5	75%
WITHEY, CONNIE	22	18	18	80%	36	17	75%
<b>TOTAL</b>	<b>49,477</b>	<b>37,268</b>	<b>38,652</b>		<b>75,920</b>	<b>36,238</b>	

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**BAJA SUBAREA**

PRODUCER	BASE ANNUAL PRODUCTION	2018-19 FREE PRODUCTION ALLOWANCE <sup>1</sup>				2019-20 FREE PRODUCTION ALLOWANCE <sup>2</sup>	
		CARRYOVER FROM PREVIOUS YEAR	FREE PRODUCTION ALLOWANCE		TOTAL	ACRE-FEET	PERCENTAGE OF BAP
			ACRE-FEET	PERCENTAGE OF BAP			
35250 YERMO, LLC	24	5	9	35%	14	8	30%
AHN, CHUN SOO AND WHA JA	50	20	18	35%	38	15	30%
AKE, CHARLES J. AND MARJORIE M.	23	10	9	35%	19	7	30%
ARCHIBEK, ERIC	0	0	0	35%	0	0	30%
ARGUELLES, ALFREDO	647	259	227	35%	486	195	30%
ATCHISON, TOPEKA, SANTA FE RAILWAY COMPANY	80	0	28	35%	28	24	30%
BAILEY 2007 LIVING REVOCABLE TRUST, SHERÉ R.	27	11	10	35%	21	9	30%
BARBER, JAMES B.	167	32	59	35%	91	51	30%
BARON, SUSAN AND PALMER, CURTIS	26	11	10	35%	21	8	30%
BENDER TRUST, DOLORES M.	0	0	0	35%	0	0	30%
BORGOGNO REVOCABLE LIVING TRUST	1,844	736	646	35%	1,382	554	30%
BORJA, LEONIL T. AND TITAL L.	20	8	7	35%	15	6	30%
BREDELIS, RONALD C. AND JEAN	64	26	23	35%	49	20	30%
BROWN, RONALD A.	1,080	420	378	35%	798	324	30%
BUBIER, DIANE GAIL (FORMERLY: SHORT, CHARLES H REVOCABLE TRUST)	54	22	19	35%	41	17	30%
BUDGET FINANCE COMPANY	32	13	12	35%	25	10	30%
BUSH, KEVIN	0	0	0	35%	0	0	30%
CALICO JUNCTION	20	8	7	35%	15	6	30%
CALICO LAKES HOMEOWNERS ASSOCIATION	1,293	518	453	35%	971	388	30%
CALIFORNIA DEPARTMENT OF TRANSPORTATION	71	29	25	35%	54	22	30%
CALMAT COMPANY	0	0	0	35%	0	0	30%
CAMANGA, TONY AND MARIETTA	47	19	17	35%	36	15	30%
CAMPBELL, M. A. AND DIANNE	22	9	8	35%	17	7	30%
CARLTON, SUSAN	155	62	55	35%	117	47	30%
CDFW - CAMP CADY	921	369	323	35%	692	277	30%
CF PROPERTIES, LLC	845	338	296	35%	634	254	30%
CHEYENNE LAKE, INC.	522	209	183	35%	392	157	30%

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PRODUCER	BASE ANNUAL PRODUCTION	2018-19 FREE PRODUCTION ALLOWANCE <sup>1</sup>				2019-20 FREE PRODUCTION ALLOWANCE <sup>2</sup>	
		CARRYOVER FROM PREVIOUS YEAR	FREE PRODUCTION ALLOWANCE		TOTAL	ACRE-FEET	PERCENTAGE OF BAP
			ACRE-FEET	PERCENTAGE OF BAP			
CLARK, ARTHUR	50	20	18	35%	38	15	30%
CONNER, WILLIAM H.	25	10	9	35%	19	8	30%
CORBRIDGE, LINDA S.	32	13	12	35%	25	10	30%
CROSS, FRANCIS AND BEVERLY	40	16	14	35%	30	12	30%
CRYSTAL LAKES PROPERTY OWNERS ASSOCIATION	701	281	246	35%	527	211	30%
DAGGETT COMMUNITY SERVICES DISTRICT	304	0	107	35%	107	92	30%
DAGGETT RANCH, LLC	76	29	27	35%	56	23	30%
DE JONG FAMILY TRUST	3,131	1,253	1,096	35%	2,349	940	30%
DENNISON, QUENTIN D. - CLEGG, FRIZELL AND JOKE	29	12	11	35%	23	9	30%
DOCIMO LIVING TRUST, ALLEN LEE	109	28	39	35%	67	33	30%
DONALDSON, JERRY AND BEVERLY	90	36	32	35%	68	27	30%
DOWELL, LEONARD	23	10	9	35%	19	7	30%
EVERT FAMILY TRUST	173	41	61	35%	102	52	30%
FEJFAR, MONICA KAY	20	8	7	35%	15	6	30%
FERNANDEZ, ARTURO	76	31	27	35%	58	23	30%
FERRO, DENNIS AND NORMA	32	13	12	35%	25	10	30%
FIRST CPA LLC	57	14	20	35%	34	18	30%
FUNDAMENTAL CHRISTIAN ENDEAVORS, INC.	425	170	149	35%	319	128	30%
GABRYCH, EUGENE	1,637	511	573	35%	1,084	492	30%
GARCIA, DANIEL	23	10	9	35%	19	7	30%
GARG, OM P.	483	194	170	35%	364	145	30%
GENON ENERGY, INC.	7,194	2,124	2,518	35%	4,642	2,159	30%
GRAY, GEORGE F. AND BETTY E.	94	38	33	35%	71	29	30%
HACKBARTH, EDWARD E.	1,517	441	531	35%	972	456	30%
HANSON AGGREGATES WRP, INC.	31	13	11	35%	24	10	30%
HARESON, NICHOLAS AND MARY	8	4	3	35%	7	3	30%
HARTER, JOE AND SUE	5,234	1,868	1,832	35%	3,700	1,571	30%
HASS, PAULINE L.	35	14	13	35%	27	11	30%

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		CARRYOVER FROM PREVIOUS YEAR	FREE PRODUCTION ALLOWANCE		TOTAL	ACRE-FEET	PERCENTAGE OF BAP
			ACRE-FEET	PERCENTAGE OF BAP			
HAWKINS, JAMES B. (FORMERLY: WESTERN HERITAGE, INC.)	854	342	299	35%	641	257	30%
HENDLEY, RICK AND BARBARA	48	20	17	35%	37	15	30%
HIETT, HARRY L.	29	12	11	35%	23	9	30%
HILARIDES 1998 REVOCABLE FAMILY TRUST	303	121	107	35%	228	91	30%
HO, TING-SENG AND AH-GIT	300	120	105	35%	225	90	30%
HOLLISTER, ROBERT H. AND RUTH M.	44	18	16	35%	34	14	30%
HONG, PAUL B. AND MAY	85	34	30	35%	64	26	30%
HOOD FAMILY TRUST	41	17	15	35%	32	13	30%
HORTON, JOHN	242	97	85	35%	182	73	30%
HORTON'S CHILDREN'S TRUST	199	0	70	35%	70	60	30%
HUBBARD, ESTER AND MIZUNO, ARLEAN	28	12	10	35%	22	9	30%
HUNT, RALPH M. AND LILLIAN F.	51	21	18	35%	39	16	30%
HYATT, JAMES AND BRENDA	210	84	74	35%	158	63	30%
IM, NICHOLAS NAK-KYUN	150	60	53	35%	113	45	30%
IRVIN, BERTRAND W.	29	12	11	35%	23	9	30%
ITALMOOD INC., ET. AL.	190	76	67	35%	143	57	30%
JACKS, JAMES F.	10	4	4	35%	8	3	30%
JACKSON, JAMES N. JR REVOCABLE LIVING TRUST	54	22	19	35%	41	17	30%
JACKSON, RAY REVOCABLE TRUST NO. 45801	1	1	1	35%	2	1	30%
JOHNSON, JAMES R. AND ELLEN	247	73	87	35%	160	75	30%
KARIMI, HOOSHANG	70	28	25	35%	53	21	30%
KASNER FAMILY LIMITED PARTNERSHIP	843	0	296	35%	296	253	30%
KASNER, ROBERT	5,713	1,682	2,000	35%	3,682	1,714	30%
KATCHER, AUGUST M. AND MARCELINE	23	10	9	35%	19	7	30%
KEMP, ROBERT AND ROSE	32	13	12	35%	25	10	30%
KIM, JOON HO AND MAL BOON REVOCABLE TRUST	764	306	268	35%	574	230	30%
KIM, SEON JA	50	20	18	35%	38	15	30%

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**BAJA SUBAREA**

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		CARRYOVER FROM PREVIOUS YEAR	FREE PRODUCTION ALLOWANCE		TOTAL	ACRE-FEET	PERCENTAGE OF BAP
			ACRE-FEET	PERCENTAGE OF BAP			
KOEGLER, RONALD R. AND CAROLYN V.	26	9	10	35%	19	8	30%
KOERING, RICHARD AND KOERING, DONNA	20	8	7	35%	15	6	30%
KOROGHLIAN, TED AND NAJWA	15	1	6	35%	7	5	30%
KOSHAREK, JOHN AND JOANN	54	22	19	35%	41	17	30%
LAKE JODIE PROPERTY OWNERS ASSOCIATION	311	125	109	35%	234	94	30%
LAKE WAIKIKI	98	40	35	35%	75	30	30%
LAKE WAINANI OWNERS ASSOCIATION	938	298	329	35%	627	282	30%
LAM, PHILLIP	105	42	37	35%	79	32	30%
LANGLEY, MICHAEL R. AND SHARON	20	3	7	35%	10	6	30%
LAVANH, ET AL.	24	10	9	35%	19	8	30%
LAWRENCE, WILLIAM W.	45	18	16	35%	34	14	30%
LEE, VIN JANG T.	630	252	221	35%	473	189	30%
LEM, HOY	32	13	12	35%	25	10	30%
LIANG, YUAN - I AND TZU - MEI CHEN	200	80	70	35%	150	60	30%
LIBERTY UTILITIES (APPLE VALLEY RANCHOS WATER) CORP.	453	182	159	35%	341	136	30%
LIN, KUAN JUNG AND CHUNG, DER-BING	451	181	158	35%	339	136	30%
LO, ET AL.	59	0	21	35%	21	18	30%
M BIRD CONSTRUCTION	41	17	15	35%	32	13	30%
MAHJOUBI, AFSAR S.	63	26	23	35%	49	19	30%
MALONEY, JANICE	36	15	13	35%	28	11	30%
MANNING, SHARON S.	63	0	23	35%	23	19	30%
MARCROFT, JAMES A. AND JOAN	38	2	14	35%	16	12	30%
MARSHALL, CHARLES	20	8	7	35%	15	6	30%
MARTIN, MICHAEL D. AND ARLENE D.	63	0	23	35%	23	19	30%
MILBRAT, IRVING H.	73	30	26	35%	56	22	30%
MILLER LIVING TRUST	18	8	7	35%	15	6	30%
MIZRAHIE, ET AL.	145	58	51	35%	109	44	30%
MORRIS TRUST, JULIA V.	304	122	107	35%	229	92	30%

**APPENDIX H**  
**FREE PRODUCTION ALLOWANCE FOR WATER YEAR 2018-19**  
**AND**  
**PROPOSED FREE PRODUCTION ALLOWANCE FOR WATER YEAR 2019-20**  
**(ALL AMOUNTS IN ACRE-FEET)**

**BAJA SUBAREA**

**REVISED**  
**by Court Order**  
**of July 23, 2019**

PRODUCER	BASE ANNUAL PRODUCTION	2018-19 FREE PRODUCTION ALLOWANCE <sup>1</sup>				2019-20 FREE PRODUCTION ALLOWANCE <sup>2</sup>	
		CARRYOVER FROM PREVIOUS YEAR	FREE PRODUCTION ALLOWANCE		TOTAL	ACRE-FEET	PERCENTAGE OF BAP
			ACRE-FEET	PERCENTAGE OF BAP			
MULLIGAN, ROBERT AND INEZ	35	14	13	35%	27	11	30%
MURPHY, JEAN	24	10	9	35%	19	8	30%
NEW SPRINGS LIMITED PARTNERSHIP	2,329	732	816	35%	1,548	699	30%
NEWBERRY COMMUNITY SERVICES DISTRICT	23	3	9	35%	12	7	30%
NEWBERRY SPRINGS RECREATIONAL LAKES ASSOCIATION	5	2	2	35%	4	2	30%
O. F. D. L., INC.	300	120	105	35%	225	90	30%
P AND H ENGINEERING AND DEVELOPMENT CORPORATION	667	267	234	35%	501	201	30%
PATINO, JOSÉ	22	9	8	35%	17	7	30%
PEARCE, CRAIG L.	150	60	53	35%	113	45	30%
PERKO, BERT K.	132	53	47	35%	100	40	30%
POLAND, JOHN R. AND KATHLEEN A.	92	37	33	35%	70	28	30%
PORTER, TIMOTHY M.	30	12	11	35%	23	9	30%
POZZATO PARTNERS, LIMITED	54	0	19	35%	19	17	30%
PRICE, DONALD AND RUTH	42	17	15	35%	32	13	30%
PRUETT, ANDREA	36	15	13	35%	28	11	30%
QUAKENBUSH, SAMUEL R. (FORMERLY: SMITH, WILLIAM E. AND PATRICIA A.)	19	8	7	35%	15	6	30%
QUIROS, FRANSISCO J. AND HERRMANN, RONALD	38	0	14	35%	14	12	30%
RICE, HENRY C. AND DIANA	24	10	9	35%	19	8	30%
RIZVI, S.R ALI	27	11	10	35%	21	9	30%
ROSSI, JAMES L. AND NAOMI I.	614	108	215	35%	323	185	30%
S AND B BROTHERS, LLC	221	89	78	35%	167	67	30%
SAGABEAN-BARKER, KANOELOKELANI L.	34	14	12	35%	26	11	30%
SAMRA, JAGTAR S.	30	12	11	35%	23	9	30%
SAN BERNARDINO CO BARSTOW - DAGGETT AIRPORT	168	68	59	35%	127	51	30%
SERVICE ROCK PRODUCTS CORPORATION	0	0	0	35%	0	0	30%
SHAW, ROBERT M. AND LORI A. SLATER-SHAW	43	18	16	35%	34	13	30%
SHENG, JEN	33	14	12	35%	26	10	30%



**APPENDIX H**

JULY 23, 2019

**FREE PRODUCTION ALLOWANCE FOR WATER YEAR 2018-19  
AND  
PROPOSED FREE PRODUCTION ALLOWANCE FOR WATER YEAR 2019-20  
(ALL AMOUNTS IN ACRE-FEET)**

**REVISED  
by Court Order  
of July 23, 2019**

**BAJA SUBAREA**

PRODUCER	BASE ANNUAL PRODUCTION	2018-19 FREE PRODUCTION ALLOWANCE <sup>1</sup>				2019-20 FREE PRODUCTION ALLOWANCE <sup>2</sup>	
		CARRYOVER FROM PREVIOUS YEAR	FREE PRODUCTION ALLOWANCE		TOTAL	ACRE-FEET	PERCENTAGE OF BAP
			ACRE-FEET	PERCENTAGE OF BAP			
SHEPPARD, THOMAS AND GLORIA	217	87	76	35%	163	66	30%
SHORT, JEROME E.	30	7	11	35%	18	9	30%
SINGH, ET AL.	31	13	11	35%	24	10	30%
SMITH, DENISE DBA AMEREQUINE BEAUTY, INC	0	0	0	35%	0	0	30%
SMITH, PORTER AND ANITA	25	10	9	35%	19	8	30%
SOUTHERN CALIFORNIA EDISON COMPANY	600	240	210	35%	450	180	30%
SOUTHERN CALIFORNIA GAS COMPANY	98	40	35	35%	75	30	30%
SPERRY, WESLEY	4	2	2	35%	4	2	30%
ST. ANTONY COPTIC ORTHODOX MONASTERY	130	249	46	35%	295	39	30%
STARKE, GEORGE A. AND JAYNE E.	23	10	9	35%	19	7	30%
SUNDOWN LAKES, INC.	420	168	147	35%	315	126	30%
SUNRAY LAND COMPANY, LLC	63	26	23	35%	49	19	30%
SZYNKOWSKI, RUTH J.	29	12	11	35%	23	9	30%
TAPIE, RAYMOND L.	18	8	7	35%	15	6	30%
TEISAN, JERRY	96	39	34	35%	73	29	30%
THAYER, SHARON	97	39	34	35%	73	30	30%
THOMAS, STEPHEN AND LORI	49	20	18	35%	38	15	30%
TRIPLE H PARTNERSHIP	218	88	77	35%	165	66	30%
TURNER, TERRY	30	12	11	35%	23	9	30%
UNION PACIFIC RAILROAD COMPANY	249	100	88	35%	188	75	30%
VACA, ANDY AND TERESITA S.	20	6	7	35%	13	6	30%
VAN BASTELAAR, ALPHONSE	78	0	28	35%	28	24	30%
VAN DAM FAMILY TRUST, GLEN AND JENNIFER	5,430	1,482	1,901	35%	3,383	1,629	30%
VAN LEEUWEN, JOHN	2,018	649	707	35%	1,356	606	30%
VANDER DUSSEN TRUST, AGNES AND EDWARD	1,792	443	628	35%	1,071	538	30%
WANG, STEVEN	10	4	4	35%	8	3	30%
WARD, RAYMOND	105	0	37	35%	37	32	30%
WEEMS, LIZZIE	53	22	19	35%	41	16	30%

**APPENDIX H**

JULY 23, 2019

**FREE PRODUCTION ALLOWANCE FOR WATER YEAR 2018-19  
AND  
PROPOSED FREE PRODUCTION ALLOWANCE FOR WATER YEAR 2019-20  
(ALL AMOUNTS IN ACRE-FEET)**

**BAJA SUBAREA**

**REVISED  
by Court Order  
of July 23, 2019**

PRODUCER	BASE ANNUAL PRODUCTION	2018-19 FREE PRODUCTION ALLOWANCE <sup>1</sup>				2019-20 FREE PRODUCTION ALLOWANCE <sup>2</sup>	
		CARRYOVER FROM PREVIOUS YEAR	FREE PRODUCTION ALLOWANCE		TOTAL	ACRE-FEET	PERCENTAGE OF BAP
			ACRE-FEET	PERCENTAGE OF BAP			
WEERAISINGHE, MAITHRI N.	15	6	6	35%	12	5	30%
WESTERN HORIZON ASSOCIATES, INC.	1,363	180	478	35%	658	409	30%
WET SET, INC.	404	89	142	35%	231	122	30%
WITTE, E. DANIEL AND MARCIA	27	11	10	35%	21	9	30%
WLSR, INC.	328	132	115	35%	247	99	30%
WORSEY, JOSEPH A. AND REVAE	29	12	11	35%	23	9	30%
<b>TOTAL</b>	<b>63,929</b>	<b>21,020</b>	<b>22,454</b>		<b>43,474</b>	<b>19,246</b>	

**NOTES FOR APPENDIX H**

**REVISED  
by Court Order  
of July 23, 2019**

- 1 FREE PRODUCTION ALLOWANCE IS EQUAL TO 80% OF BASE ANNUAL PRODUCTION FOR THE ESTE, OESTE AND CENTRO SUBAREAS AND 35% OF BASE ANNUAL PRODUCTION FOR THE BAJA SUBAREA FOR 2018-19 BASED ON THE COURT ORDER DATED JULY 13, 2018. FREE PRODUCTION ALLOWANCE IS EQUAL TO 80% OF BASE ANNUAL PRODUCTION FOR AGRICULTURAL PRODUCERS AND 60% OF BASE ANNUAL PRODUCTION FOR ALL OTHER PRODUCERS IN THE ALTO SUBAREA. AGRICULTURAL PRODUCERS INCLUDE THOSE PRODUCING WATER FOR THE IRRIGATION OF CROPS SUCH AS ALFALFA, GRAINS, NUT TREES OR ORCHARD, DAIRIES AND LIVESTOCK AND GENERALLY ALL OTHER INCIDENTAL USES INCLUDING SMALL DOMESTIC OR AS OTHERWISE DETERMINED BY WATERMASTER.
- 2 FREE PRODUCTION ALLOWANCE FOR 2019-20 (PURSUANT TO COURT ORDER DATED JULY 23, 2019).  
  
ESTE SUBAREA: FREE PRODUCTION ALLOWANCE IS EQUAL 75% OF BASE ANNUAL PRODUCTION FOR THE 2019-20 WATER YEAR.  
  
OESTE SUBAREA: FREE PRODUCTION ALLOWANCE IS EQUAL 75% OF BASE ANNUAL PRODUCTION FOR THE 2019-20 WATER YEAR.  
  
ALTO SUBAREA: FREE PRODUCTION ALLOWANCE IS EQUAL 75% OF BASE ANNUAL PRODUCTION FOR AGRICULTURAL PRODUCERS AND 55% OF BASE ANNUAL PRODUCTION FOR ALL OTHER PRODUCERS IN THE ALTO SUBAREA FOR THE 2019-20 WATER YEAR, CONSISTENT WITH DIRECTION FROM THE COURT. AGRICULTURAL PRODUCERS INCLUDE THOSE PRODUCING WATER FOR THE IRRIGATION OF CROPS SUCH AS ALFALFA, GRAINS, NUT TREES OR ORCHARD, DAIRIES AND LIVESTOCK AND GENERALLY ALL OTHER INCIDENTAL USES INCLUDING SMALL DOMESTIC OR AS OTHERWISE DETERMINED BY WATERMASTER.  
  
CENTRO SUBAREA: FREE PRODUCTION ALLOWANCE IS EQUAL 75% OF BASE ANNUAL PRODUCTION FOR THE 2019-20 WATER YEAR.  
  
BAJA SUBAREA: FREE PRODUCTION ALLOWANCE IS EQUAL TO 30% OF BASE ANNUAL PRODUCTION FOR THE 2019-20 WATER YEAR.
- 3 PHELAN PIÑON HILLS CSD'S WELL #14 IS NOT INCLUDED IN THE TOTAL VERIFIED PRODUCTION. THE MATTER OF PUMPING FROM WELL #14, LOCATED IN LA COUNTY, IS STILL UNRESOLVED AND MAY AFFECT FUTURE OBLIGATIONS UNDER THE JUDGMENT.
- 4 APPELLANTS NOT SUBJECT TO THE JUDGMENT AFTER TRIAL PURSUANT TO SUPREME COURT DECISION DATED AUGUST 21, 2000. THE AGGREGATE BASE ANNUAL PRODUCTION OF THESE PARTIES WAS DETERMINED PRIOR TO TRIAL AND CONSISTS OF 291 ACRE FEET IN THE ALTO SUBAREA AND 1,187 ACRE FEET IN THE CENTRO SUBAREA.

**APPENDIX I**

**AMENDED APPENDIX B FOR WATER YEAR 2016-17**

**RECONCILED FOR CARRYOVER TRANSFERS IN LIEU OF**

**PAYMENT OF REPLACEMENT AND MAKEUP WATER ASSESSMENTS**

**AND ALL OTHER ERRATA**

APPENDIX I

MARCH 27, 2019

AMENDED APPENDIX B FOR WATER YEAR 2016-17  
RECONCILED FOR CARRYOVER TRANSFERS IN LIEU OF PAYMENT OF REPLACEMENT AND MAKEUP WATER ASSESSMENTS  
AND ALL OTHER ERRATA

(UNLESS OTHERWISE NOTED ALL AMOUNTS SHOWN ARE IN ACRE-FEET)

ESTE SUBAREA

PRODUCER	2016-17 FREE PRODUCTION ALLOWANCE						PRODUCTION			ASSESSMENTS DUE BY JULY 1, 2018 (AMOUNTS IN DOLLARS)				
	BASE ANNUAL PRODUCTION	BASE FREE PRODUCTION ALLOWANCE <sup>1</sup>	CARRYOVER FROM PREVIOUS YEAR <sup>2</sup>	TRANSFERS + OR (-)		TOTAL <sup>5</sup>	2016-17 VERIFIED PRODUCTION <sup>6</sup>	UNUSED FPA <sup>7</sup>	REPLACEMENT WATER OBLIGATION <sup>8</sup>	SUBJECT TO MAKEUP OBLIGATION <sup>9</sup>	MAKEUP WATER OBLIGATION	REPLACEMENT WATER \$556.00/AF	MAKEUP WATER N/A	TOTAL
				2015-16 <sup>3</sup>	2016-17 <sup>4</sup>									
				CARRYOVER <sup>3</sup>	FPA <sup>4</sup>									
ABDUL, HARRY AND ANITA	194	156	156	0	0	312	7	156	0	7	0.00	0.00	0.00	0.00
ABSHIRE, DAVID V.	24	20	20	0	0	40	0	20	0	0	0.00	0.00	0.00	0.00
AHN REVOCABLE LIVING TRUST	0	0	0	0	58	58	58	0	0	0	0.00	0.00	0.00	0.00
AHN REVOCABLE TRUST	28	23	21	0	0	44	17	23	0	17	0.00	0.00	0.00	0.00
AHN, CHUN SOO AND DAVID	400	320	320	(57)	(102)	481	0	218	0	0	0.00	0.00	0.00	0.00
ANDERSON, ROSS C. AND BETTY J.	34	28	28	0	0	56	0	28	0	0	0.00	0.00	0.00	0.00
AVILA, ANGEL AND EVALIA	573	459	459	0	(30)	888	56	429	0	56	0.00	0.00	0.00	0.00
BAR H MUTUAL WATER COMPANY	53	43	43	0	0	86	26	43	0	26	0.00	0.00	0.00	0.00
BELL, CHUCK	494	396	396	0	0	792	299	396	0	299	0.00	0.00	0.00	0.00
BRACHT, WILLIAM F. AND ALEXANDER, ALICIA M.	50	40	40	0	0	80	46	34	0	46	0.00	0.00	0.00	0.00
CASA COLINA FOUNDATION	90	72	51	0	0	123	52	71	0	52	0.00	0.00	0.00	0.00
CENTER WATER COMPANY	40	32	32	0	0	64	23	32	0	23	0.00	0.00	0.00	0.00
CHUNG, ET AL.	0	0	0	0	30	30	23	7	0	23	0.00	0.00	0.00	0.00
CLUB VIEW PARTNERS	1,276	1,021	1,021	(26)	(19)	1,997	0	1,002	0	0	0.00	0.00	0.00	0.00
CROSS, SHARON I.	23	19	19	0	0	38	1	19	0	1	0.00	0.00	0.00	0.00
DACOSTA, DEAN EDWARD	56	45	45	0	0	90	1	45	0	1	0.00	0.00	0.00	0.00
DAHLQUIST, GEORGE R.	594	476	476	0	0	952	0	476	0	0	0.00	0.00	0.00	0.00
DESERT DAWN MUTUAL WATER COMPANY	15	12	0	0	12	24	24	0	0	12	0.00	0.00	0.00	0.00
DESERT SPRINGS MUTUAL WATER COMPANY	78	63	63	0	0	126	47	63	0	47	0.00	0.00	0.00	0.00
DJC CORPORATION	66	53	53	0	0	106	0	53	0	0	0.00	0.00	0.00	0.00
GABRYCH, EUGENE	2,201	1,761	1,761	0	0	3,522	0	1,761	0	0	0.00	0.00	0.00	0.00
GAETA, MIGUEL AND MARIA	1,500	1,200	1,200	0	(30)	2,370	485	1,170	0	485	0.00	0.00	0.00	0.00
GAETA, TRINIDAD	512	410	410	0	0	820	91	410	0	91	0.00	0.00	0.00	0.00
GARDENA MISSION CHURCH, INC.	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00
GAYJIKIAN, SAMUEL AND HAZEL	102	82	82	0	0	164	1	82	0	1	0.00	0.00	0.00	0.00
GOLDEN STATE WATER COMPANY	178	143	143	0	0	286	117	143	0	117	0.00	0.00	0.00	0.00
GORDON ACRES WATER COMPANY	54	44	44	0	0	88	15	44	0	15	0.00	0.00	0.00	0.00
GUBLER, HANS	30	24	24	0	0	48	10	24	0	10	0.00	0.00	0.00	0.00
HAL-DOR LTD.	23	19	19	0	0	38	16	19	0	16	0.00	0.00	0.00	0.00
HARVEY, LISA M.	300	240	240	0	0	480	1	240	0	1	0.00	0.00	0.00	0.00
HERT, SCOTT	276	221	221	0	0	442	178	221	0	178	0.00	0.00	0.00	0.00
HI-GRADE MATERIALS COMPANY	442	354	354	0	0	708	144	354	0	144	0.00	0.00	0.00	0.00
HITCHIN LUCERNE, INC.	16	13	13	0	0	26	10	13	0	10	0.00	0.00	0.00	0.00
JUBILEE MUTUAL WATER COMPANY	142	114	36	(10)	0	140	109	31	0	109	0.00	0.00	0.00	0.00
JUNIPER RIVIERA COUNTY WATER DISTRICT	37	30	0	6	30	66	66	0	0	36	0.00	0.00	0.00	0.00
KIM, JU SANG	30	24	24	0	0	48	1	24	0	1	0.00	0.00	0.00	0.00

**AMENDED APPENDIX B FOR WATER YEAR 2016-17  
RECONCILED FOR CARRYOVER TRANSFERS IN LIEU OF PAYMENT OF REPLACEMENT AND MAKEUP WATER ASSESSMENTS  
AND ALL OTHER ERRATA**

(UNLESS OTHERWISE NOTED ALL AMOUNTS SHOWN ARE IN ACRE-FEET)

**ESTE SUBAREA**

PRODUCER	2016-17 FREE PRODUCTION ALLOWANCE						PRODUCTION						ASSESSMENTS DUE BY JULY 1, 2018 (AMOUNTS IN DOLLARS)		
	BASE ANNUAL PRODUCTION	BASE FREE PRODUCTION ALLOWANCE <sup>1</sup>	CARRYOVER FROM PREVIOUS YEAR <sup>2</sup>	TRANSFERS + OR (-)		TOTAL <sup>5</sup>	2016-17 VERIFIED PRODUCTION <sup>6</sup>	UNUSED FPA <sup>7</sup>	REPLACEMENT WATER OBLIGATION <sup>8</sup>	SUBJECT TO MAKEUP OBLIGATION <sup>9</sup>	MAKEUP WATER OBLIGATION	REPLACEMENT	MAKEUP	TOTAL	
				2015-16 CARRYOVER <sup>3</sup>	2016-17 FPA <sup>4</sup>							WATER	WATER		
												\$556.00/AF	N/A		
LEE, ANNA K. AND ESHBAN K. (FORMERLY: SEALS TIBBETT, ET AL.)	33	27	0	0	0	27	0	27	0	0	0.00	0.00	0.00	0.00	
LEE, DOO HWAN	78	63	63	0	0	126	0	63	0	0	0.00	0.00	0.00	0.00	
LOPEZ, BALTAZAR	385	308	308	0	0	616	0	308	0	0	0.00	0.00	0.00	0.00	
LUA, MICHAEL T. AND DONNA S.	348	279	279	0	0	558	0	279	0	0	0.00	0.00	0.00	0.00	
LUCERNE VALLEY MUTUAL WATER COMPANY	54	44	44	0	0	88	27	44	0	27	0.00	0.00	0.00	0.00	
LUCERNE VALLEY PARTNERS	1,213	971	971	0	0	1,942	0	971	0	0	0.00	0.00	0.00	0.00	
LUCERNE VISTA MUTUAL WATER COMPANY	21	17	13	0	0	30	14	16	0	14	0.00	0.00	0.00	0.00	
M.B. LANDSCAPING AND NURSERY, INC.	1,773	1,419	1,351	(71)	(71)	2,628	1,253	1,348	0	1,253	0.00	0.00	0.00	0.00	
MITSUBISHI CEMENT CORPORATION	1,395	1,116	1,116	(77)	(78)	2,077	326	1,038	0	326	0.00	0.00	0.00	0.00	
MONACO INVESTMENT COMPANY	70	56	56	0	0	112	0	56	0	0	0.00	0.00	0.00	0.00	
MOSS, LAWRENCE W. AND HELEN J.	43	35	35	0	0	70	32	35	0	32	0.00	0.00	0.00	0.00	
NORRIS TRUST, MARY ANN	73	59	59	0	0	118	1	59	0	1	0.00	0.00	0.00	0.00	
OASIS WORLD MISSION	0	0	0	0	44	44	44	0	0	0	0.00	0.00	0.00	0.00	
OMYA CALIFORNIA, INC.	23	19	3	0	0	22	23	0	1	22	0.00	556.00	0.00	556.00	
PAK, KAE SOO AND MYONG HUI KANG	247	198	198	0	0	396	56	198	0	56	0.00	0.00	0.00	0.00	
PETTIGREW, DAN	22	18	18	0	0	36	0	18	0	0	0.00	0.00	0.00	0.00	
PETTIGREW, JAMES AND CHERLYN	500	400	400	0	0	800	88	400	0	88	0.00	0.00	0.00	0.00	
REED, MIKE	58	47	47	0	0	94	1	47	0	1	0.00	0.00	0.00	0.00	
ROBERTSON'S READY MIX	0	0	0	0	78	78	78	0	0	0	0.00	0.00	0.00	0.00	
ROYAL WAY	200	160	160	0	0	320	50	160	0	50	0.00	0.00	0.00	0.00	
S AND E 786 ENTERPRISES, LLC	597	478	478	0	0	956	0	478	0	0	0.00	0.00	0.00	0.00	
SABA, SABA A. AND SHIRLEY L.	1,120	896	896	0	0	1,792	0	896	0	0	0.00	0.00	0.00	0.00	
SAN BERNARDINO COUNTY SERVICE AREA 29	40	32	0	0	19	51	51	0	0	32	0.00	0.00	0.00	0.00	
SEALS TIBBETT, ET AL.	0	0	27	0	0	27	0	0	0	0	0.00	0.00	0.00	0.00	
SON'S RANCH	140	112	112	0	0	224	53	112	0	53	0.00	0.00	0.00	0.00	
SPECIALTY MINERALS, INC.	42	34	0	0	0	34	53	0	19	34	0.00	10,564.00	0.00	10,564.00	
SPILLMAN, JAMES R. AND NANCY J.	23	19	19	0	0	38	5	19	0	5	0.00	0.00	0.00	0.00	
THE CUSHENBURY TRUST, C/O SPECIALTY MINERALS, INC.	10	8	8	(4)	0	12	0	8	0	0	0.00	0.00	0.00	0.00	
WEISER, ET AL.	90	72	0	0	71	143	143	0	0	72	0.00	0.00	0.00	0.00	
WEST END MUTUAL WATER COMPANY	30	24	24	(6)	(12)	30	11	12	0	11	0.00	0.00	0.00	0.00	
WILSHIRE ROAD PARTNERS	692	554	554	0	0	1,108	0	554	0	0	0.00	0.00	0.00	0.00	
TOTAL	19,251	15,422	15,053	(245)	0	30,230	4,233	14,797	20	3,901	0.00	11,120.00	0.00	11,120.00	

APPENDIX I

MARCH 27, 2019

AMENDED APPENDIX B FOR WATER YEAR 2016-17  
RECONCILED FOR CARRYOVER TRANSFERS IN LIEU OF PAYMENT OF REPLACEMENT AND MAKEUP WATER ASSESSMENTS  
AND ALL OTHER ERRATA

(UNLESS OTHERWISE NOTED ALL AMOUNTS SHOWN ARE IN ACRE-FEET)

OESTE SUBAREA

PRODUCER	2016-17 FREE PRODUCTION ALLOWANCE						PRODUCTION					ASSESSMENTS DUE BY JULY 1, 2018 (AMOUNTS IN DOLLARS)		
	BASE ANNUAL PRODUCTION	BASE FREE PRODUCTION ALLOWANCE <sup>1</sup>	CARRYOVER FROM PREVIOUS YEAR <sup>2</sup>	TRANSFERS + OR (-)		TOTAL <sup>5</sup>	2016-17 VERIFIED PRODUCTION <sup>6</sup>	UNUSED <sup>7</sup> FPA	REPLACEMENT WATER OBLIGATION <sup>8</sup>	SUBJECT TO MAKEUP OBLIGATION <sup>9</sup>	MAKEUP WATER OBLIGATION	REPLACEMENT	MAKEUP	TOTAL
				2015-16 CARRYOVER <sup>3</sup>	2016-17 FPA <sup>4</sup>							WATER	WATER	
												\$556.00/AF	N/A	
AEROCHEM, INC.	660	528	528	(528)	(500)	28	11	17	0	11	0.00	0.00	0.00	0.00
BROWN, SUE AND DOUG	46	37	37	0	0	74	0	37	0	0	0.00	0.00	0.00	0.00
CHAMISAL MUTUAL WATER COMPANY	96	77	77	(77)	(37)	40	32	8	0	32	0.00	0.00	0.00	0.00
DOSSEY, D. A.	7	6	6	0	0	12	0	6	0	0	0.00	0.00	0.00	0.00
HANDRINOS, NICOLE A.	7	6	6	0	0	12	1	6	0	1	0.00	0.00	0.00	0.00
HETTINGA, HEIN AND ELLEN	1,249	1,000	0	19	537	1,556	1,308	248	0	1,308	0.00	0.00	0.00	0.00
PHELAN PIÑON HILLS COMMUNITY SERVICES DISTRICT (SEE NOTE 10)	4,680	3,744	3,744	0	0	7,488	1,834	3,744	0	1,834	0.00	0.00	0.00	0.00
THORESON-SLATTERY REVOCABLE LIVING TRUST	0	0	32	(32)	0	0	0	0	0	0	0.00	0.00	0.00	0.00
TROEGER FAMILY TRUST, RICHARD H.	112	90	90	0	0	180	8	90	0	8	0.00	0.00	0.00	0.00
TOTAL	6,857	5,488	4,520	(618)	0	9,390	3,194	4,156	0	3,194	0.00	0.00	0.00	0.00

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PRODUCER	2016-17 FREE PRODUCTION ALLOWANCE						PRODUCTION						ASSESSMENTS DUE BY JULY 1, 2018 (AMOUNTS IN DOLLARS)		
	BASE ANNUAL PRODUCTION	BASE FREE PRODUCTION ALLOWANCE <sup>1</sup>	CARRYOVER FROM PREVIOUS YEAR <sup>2</sup>	TRANSFERS + OR (-)		TOTAL <sup>5</sup>	2016-17 VERIFIED PRODUCTION <sup>6</sup>	UNUSED FPA <sup>7</sup>	REPLACEMENT WATER OBLIGATION <sup>8</sup>	SUBJECT TO MAKEUP OBLIGATION <sup>9</sup>	MAKEUP WATER OBLIGATION	REPLACEMENT WATER \$556.00/AF	MAKEUP WATER \$556.00/AF	TOTAL	
				2015-16 CARRYOVER <sup>3</sup>	2016-17 FPA <sup>4</sup>										
ABBOTT, CARRON	0	0	10	(10)	0	0	0	0	0	0	0.00	0.00	0.00	0.00	
ADELANTO, CITY OF	4,366	2,620	0	0	1,034	3,654	3,654	0	0	3,378	0.00	0.00	0.00	0.00	
ADES, JOHN AND DEVON	37	30	30	(30)	(25)	5	5	0	0	5	0.23	0.00	127.88	127.88	
AGCON, INC.	384	231	77	(77)	0	231	174	57	0	174	0.00	0.00	0.00	0.00	
AMERICAN STATES WATER COMPANY	1,000	600	596	(596)	(26)	574	0	574	0	0	0.00	0.00	0.00	0.00	
APPLE VALLEY FOOTHILL COUNTY WATER DISTRICT	167	101	25	(24)	0	102	85	17	0	85	0.00	0.00	0.00	0.00	
APPLE VALLEY HEIGHTS COUNTY WATER DISTRICT	125	75	0	9	12	96	96	0	0	84	0.00	0.00	0.00	0.00	
APPLE VALLEY UNIFIED SCHOOL DISTRICT	0	0	0	0	54	54	54	0	0	0	0.00	0.00	0.00	0.00	
APPLE VALLEY VIEW MUTUAL WATER COMPANY	36	22	0	0	1	23	23	0	0	22	0.00	0.00	0.00	0.00	
APPLE VALLEY, TOWN OF	1,082	650	273	0	0	923	502	421	0	502	0.00	0.00	0.00	0.00	
AQUA CAPITAL MANAGEMENT, LP-AGRICULTURE	1,077	862	0	0	(862)	0	0	0	0	0	0.00	0.00	0.00	0.00	
AQUA CAPITAL MANAGEMENT, LP-INDUSTRIAL	185	111	0	0	(111)	0	0	0	0	0	0.00	0.00	0.00	0.00	
BASS TRUST, NEWTON T.	514	412	412	(410)	(412)	2	2	0	0	2	0.09	0.00	50.04	50.04	
BASTIANON REVOCABLE TRUST	77	62	61	(61)	(61)	1	1	0	0	1	0.05	0.00	27.80	27.80	
BEEBE, ROBERT W. AND DOROTHY K.	6	5	5	0	0	10	0	5	0	0	0.00	0.00	0.00	0.00	
BEINSCHROTH FAMILY TRUST	800	640	614	(614)	(611)	29	29	0	0	29	0.00	0.00	0.00	0.00	
BROWN, BOBBY G. AND VALERIA R.	42	34	32	(30)	(34)	2	1	0	0	1	0.05	0.00	27.80	27.80	
BROWN, JENNIFER	41	33	28	(28)	(24)	9	9	0	0	9	0.00	0.00	0.00	0.00	
BRUNEAU, KAREN	10	8	8	0	0	16	2	8	0	2	0.09	0.00	50.04	50.04	
BRYANT, IAN	29	24	24	(24)	(24)	0	0	0	0	0	0.00	0.00	0.00	0.00	
BUNNELL, DICK	24	20	18	(18)	(18)	2	2	0	0	2	0.09	0.00	50.04	50.04	
CALMAT COMPANY	25	15	11	(11)	0	15	4	11	0	4	0.18	0.00	100.08	100.08	
CALPORTLAND COMPANY - AGRICULTURE	643	515	419	(419)	0	515	0	515	0	0	0.00	0.00	0.00	0.00	
CALPORTLAND COMPANY - ORO GRANDE PLANT	2,809	1,686	1,382	(1,382)	0	1,686	447	1,239	0	447	0.00	0.00	0.00	0.00	
CDFW - MOJAVE NARROWS REGIONAL PARK	2,107	1,265	0	0	384	1,649	1,649	0	0	1,265	0.00	0.00	0.00	0.00	
CDFW - MOJAVE RIVER FISH HATCHERY (SEE NOTE 11)	20	16	0	0	0	16	20	0	0	0	0.00	0.00	0.00	0.00	
CEMEX, INC.	1,499	900	0	0	273	1,173	1,173	0	0	900	0.00	0.00	0.00	0.00	
CUNNINGHAM, JERRY	10	8	12	(12)	(8)	0	0	0	0	0	0.00	0.00	0.00	0.00	
DOLCH, ROBERT AND JUDY	100	80	76	(76)	(76)	4	4	0	0	4	0.00	0.00	0.00	0.00	
DORA LAND, INC.	15	12	12	(12)	(12)	0	0	0	0	0	0.00	0.00	0.00	0.00	
EAST DESERT LAND COMPANY, LLC (SEE NOTE 12)	0						908								
EVENSON, EDWIN H. AND JOYCELAINE C.	70	56	56	0	0	112	1	56	0	1	0.05	0.00	27.80	27.80	
FEDERAL BUREAU OF PRISONS, VICTORVILLE	686	412	0	0	(412)	0	0	0	0	0	0.00	0.00	0.00	0.00	
FISCHER REVOCABLE LIVING TRUST	36	29	28	(28)	(28)	1	1	0	0	1	0.05	0.00	27.80	27.80	
FISHER TRUST, JEROME R.	633	507	507	(507)	(507)	0	0	0	0	0	0.00	0.00	0.00	0.00	



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	BASE ANNUAL PRODUCTION	BASE FREE PRODUCTION ALLOWANCE <sup>1</sup>	CARRYOVER FROM PREVIOUS YEAR <sup>2</sup>	TRANSFERS + OR (-)		TOTAL <sup>5</sup>	2016-17 VERIFIED PRODUCTION <sup>6</sup>	UNUSED <sup>7</sup> FPA	REPLACEMENT WATER OBLIGATION <sup>8</sup>	SUBJECT TO MAKEUP OBLIGATION <sup>9</sup>	MAKEUP WATER OBLIGATION	REPLACEMENT WATER \$556.00/AF	MAKEUP WATER \$556.00/AF	TOTAL
				2015-16 CARRYOVER <sup>3</sup>	2016-17 FPA <sup>4</sup>									
FITZWATER, R. E. (SEE NOTE 12)	291						1							
FRAZIER, ET AL.	50	40	40	(40)	(40)	0	0	0	0	0	0.00	0.00	0.00	0.00
GOLDEN STATE WATER COMPANY	940	564	0	293	20	877	877	0	0	857	0.00	0.00	0.00	0.00
GREEN ACRES ESTATES	25	15	15	0	0	30	4	15	0	4	0.18	0.00	100.08	100.08
GULBRANSON, MERLIN	5	4	4	0	0	8	0	4	0	0	0.00	0.00	0.00	0.00
HAAS, BRYAN C. AND HINKLE, MARY H.	9	8	8	(8)	(8)	0	0	0	0	0	0.00	0.00	0.00	0.00
HALANNA EQUITIES III	19	16	8	(8)	(10)	6	6	0	0	6	0.27	0.00	150.12	150.12
HAMILTON FAMILY TRUST	108	87	75	(75)	0	87	14	73	0	14	0.63	0.00	350.28	350.28
HELENDALE COMMUNITY SERVICES DISTRICT	3,707	2,225	494	(494)	(705)	1,520	1,520	0	0	1,520	0.00	0.00	0.00	0.00
HELENDALE SCHOOL DISTRICT	18	11	11	0	0	22	6	11	0	6	0.27	0.00	150.12	150.12
HESPERIA - GOLF COURSE, CITY OF	678	407	0	0	73	480	480	0	0	407	0.00	0.00	0.00	0.00
HESPERIA VENTURE I, LLC	0	0	0	0	0	0	1	0	1	0	0.00	556.00	0.00	556.00
HESPERIA WATER DISTRICT	13,904	8,343	0	634	4,653	13,630	13,630	0	0	8,977	0.00	0.00	0.00	0.00
HESPERIA, CITY OF	6,736	4,042	4,042	(4,042)	(4,042)	0	0	0	0	0	0.00	0.00	0.00	0.00
HI-GRADE MATERIALS COMPANY	149	90	76	(76)	0	90	18	72	0	18	0.00	0.00	0.00	0.00
HOLWAY JEFFREY R AND PATRICIA GAGE	8	7	7	(7)	0	7	0	7	0	0	0.00	0.00	0.00	0.00
HOLWAY, JEFFREY R	11	9	9	(9)	0	9	0	9	0	0	0.00	0.00	0.00	0.00
HUNT, CONNIE	66	53	53	(53)	0	53	0	53	0	0	0.00	0.00	0.00	0.00
JAMBOREE HOUSING CORPORATION	0	0	0	56	0	56	45	0	0	45	2.03	0.00	1,128.68	1,128.68
JESS RANCH WATER COMPANY	7,230	4,338	3,659	(2,800)	(3,011)	2,186	1,418	768	0	1,418	0.05	0.00	27.80	27.80
JOHNSON, CARLEAN	23	19	6	0	0	25	19	6	0	19	0.00	0.00	0.00	0.00
JOHNSON, RONALD	31	25	25	(25)	0	25	0	25	0	0	0.00	0.00	0.00	0.00
JOHNSTON, HARRIET AND JOHNSTON, LAWRENCE W.	127	102	100	(100)	0	102	2	100	0	2	0.09	0.00	50.04	50.04
KANESAKA, KENJI AND YUKARI	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00
KEMPER CAMPBELL RANCH	473	379	58	(58)	0	379	20	359	0	20	0.00	0.00	0.00	0.00
LAKE ARROWHEAD COMMUNITY SERVICES DISTRICT	658	527	527	(527)	(527)	0	0	0	0	0	0.00	0.00	0.00	0.00
LANGLEY, JAMES	5	4	4	(4)	(4)	0	0	0	0	0	0.00	0.00	0.00	0.00
LANGLEY, JAMES - INDUSTRIAL	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00
LAWSON, ERNEST AND BARBARA	15	12	12	(11)	(12)	1	1	0	0	1	0.05	0.00	27.80	27.80
LENHERT, RONALD AND TONI	37	30	30	0	0	60	7	30	0	7	0.32	0.00	177.92	177.92
LHC ALLIGATOR, LLC	498	399	399	(399)	0	399	0	399	0	0	0.00	0.00	0.00	0.00
LIBERTY UTILITIES (APPLE VALLEY RANCHOS WATER) CORP. (SEE NOTE 13)	13,610	8,166	2,349	0	0	10,515	7,856	2,659	0	7,856	0.00	0.00	0.00	0.00
LOUNSBURY, CAROLYN JOY	0	0	145	(145)	0	0	0	0	0	0	0.00	0.00	0.00	0.00
LOW, DEAN	199	160	160	(160)	(107)	53	0	53	0	0	0.00	0.00	0.00	0.00
LUCKEY 2010 REVOCABLE TRUST	300	240	239	(239)	(239)	1	1	0	0	1	0.05	0.00	27.80	27.80

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				2015-16 CARRYOVER <sup>3</sup>	2016-17 FPA <sup>4</sup>							WATER	WATER		
												\$556.00/AF	\$556.00/AF		
MARIANA RANCHOS COUNTY WATER DISTRICT	245	147	0	0	51	198	198	0	0	147	0.00	0.00	0.00	0.00	
MCINNIS, WILLIAM S.	30	24	18	0	(16)	26	6	8	0	6	0.00	0.00	0.00	0.00	
MCKINNEY, PAULA	33	27	27	(27)	0	27	0	27	0	0	0.00	0.00	0.00	0.00	
MLH, LLC	13	11	3	(3)	0	11	8	3	0	8	0.36	0.00	200.16	200.16	
MOJAVE WATER AGENCY (SEE NOTE 14)	0	0	0	0	0	0	50	0	50	0	0.00	27,800.00	0.00	27,800.00	
NAVAJO MUTUAL WATER COMPANY	88	53	53	0	0	106	30	53	0	30	0.00	0.00	0.00	0.00	
NUÑEZ, LUIS SEGUNDO	0	0	0	0	0	0	1	0	1	0	0.00	556.00	0.00	556.00	
NUNN FAMILY TRUST	36	29	28	(28)	(28)	1	1	0	0	1	0.05	0.00	27.80	27.80	
ORO GRANDE SCHOOL DISTRICT	107	65	65	0	0	130	65	65	0	65	2.94	0.00	1,634.64	1,634.64	
PEARSON, DERYL B.	22	18	18	0	0	36	0	18	0	0	0.00	0.00	0.00	0.00	
PERRY REVOCABLE LIVING TRUST, THOMAS AND PATRICIA	0	0	0	0	1	1	1	0	0	0	0.00	0.00	0.00	0.00	
PHELAN PIÑON HILLS COMMUNITY SERVICES DISTRICT	355	213	95	0	0	308	237	71	0	237	0.00	0.00	0.00	0.00	
PITTMAN, LEROY W.	148	119	119	0	0	238	1	119	0	1	0.05	0.00	27.80	27.80	
POLICH, LEE AND DONNA	65	52	52	(52)	0	52	0	52	0	0	0.00	0.00	0.00	0.00	
RANCHERITOS MUTUAL WATER COMPANY	169	102	0	0	0	102	108	0	6	102	0.00	3,336.00	0.00	3,336.00	
RIM PROPERTIES, A GENERAL PARTNERSHIP	9	8	8	(8)	(8)	0	0	0	0	0	0.00	0.00	0.00	0.00	
RUE RANCH	30	24	13	(13)	0	24	9	15	0	9	0.41	0.00	227.96	227.96	
SAN BERNARDINO COUNTY - HIGH DESERT DETENTION CENT	0	0	0	0	95	95	95	0	0	0	0.00	0.00	0.00	0.00	
SAN BERNARDINO COUNTY SERVICE AREA 42	465	279	214	(214)	(23)	256	70	186	0	70	0.00	0.00	0.00	0.00	
SAN BERNARDINO COUNTY SERVICE AREA 64	3,822	2,294	707	0	0	3,001	2,622	379	0	2,622	0.00	0.00	0.00	0.00	
SAN BERNARDINO COUNTY SERVICE AREA 70J	1,015	609	0	915	23	1,547	1,547	0	0	1,524	0.00	0.00	0.00	0.00	
SAPP, ROBERT D. AND LEE, TERESA J.	42	34	27	(27)	(26)	8	8	0	0	8	0.00	0.00	0.00	0.00	
SCRAY, MICHELLE A. TRUST	15	12	11	(11)	0	12	1	11	0	1	0.05	0.00	27.80	27.80	
SERVICE ROCK PRODUCTS CORPORATION	20	12	0	0	0	12	9	3	0	9	0.41	0.00	227.96	227.96	
SILVER LAKES ASSOCIATION	4,987	2,993	916	0	0	3,909	3,254	655	0	3,254	0.00	0.00	0.00	0.00	
SPRING VALLEY LAKE ASSOCIATION	3,768	2,261	0	0	273	2,534	2,534	0	0	2,261	0.00	0.00	0.00	0.00	
SPRING VALLEY LAKE COUNTRY CLUB	977	587	0	100	4	691	691	0	0	687	0.00	0.00	0.00	0.00	
STORM, RANDALL	62	50	50	(50)	(50)	0	0	0	0	0	0.00	0.00	0.00	0.00	
SUDMEIER, GLENN W.	20	16	15	(15)	0	16	1	15	0	1	0.05	0.00	27.80	27.80	
SUMMIT VALLEY RANCH, LLC	57	46	38	(38)	(15)	31	31	0	0	31	1.40	0.00	778.40	778.40	
THOMPSON LIVING TRUST, JAMES A. AND SULA B.	418	335	330	(330)	(331)	4	4	0	0	4	0.00	0.00	0.00	0.00	
THOMPSON LIVING TRUST, R.L. AND R.A.	13	11	6	(6)	(7)	4	4	0	0	4	0.00	0.00	0.00	0.00	
THRASHER, GARY	373	299	171	(171)	(280)	19	19	0	0	19	0.00	0.00	0.00	0.00	
THUNDERBIRD COUNTY WATER DISTRICT	118	71	0	0	35	106	106	0	0	71	0.00	0.00	0.00	0.00	
TRANSAMERICA FIN'L SVC - SPEARS, LARRY B. AND ERLINDA	26	21	21	0	0	42	0	21	0	0	0.00	0.00	0.00	0.00	
VANHOOPS HOLDINGS, LP	360	288	288	(288)	(288)	0	0	0	0	0	0.00	0.00	0.00	0.00	

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				2015-16 CARRYOVER <sup>3</sup>	2016-17 FPA <sup>4</sup>									
VICTOR VALLEY COMMUNITY COLLEGE DISTRICT	240	144	0	0	214	358	358	0	0	144	0.00	0.00	0.00	0.00
VICTOR VALLEY MEMORIAL PARK	0	0	0	0	40	40	40	0	0	0	0.00	0.00	0.00	0.00
VICTORVILLE WATER DISTRICT, ID#1 (SEE NOTE 13)	23,020	13,812	0	0	3,465	17,277	18,504	0	1,227	14,224	0.00	682,212.00	0.00	682,212.00
VICTORVILLE WATER DISTRICT, ID#2 (SEE NOTE 13)	2,932	1,760	0	0	3,037	4,797	4,797	0	0	1,760	0.00	0.00	0.00	0.00
VOGLER, ALBERT H.	62	50	49	(49)	(49)	1	1	0	0	1	0.05	0.00	27.80	27.80
WAGNER LIVING TRUST	1,224	980	980	(980)	(980)	0	0	0	0	0	0.00	0.00	0.00	0.00
WAKULA FAMILY TRUST	11	9	9	0	0	18	1	9	0	1	0.05	0.00	27.80	27.80
WARD, KEN AND BARBARA	65	52	22	(22)	0	52	31	21	0	31	0.00	0.00	0.00	0.00
WEST, HOWARD AND SUZY	72	58	58	(58)	0	58	0	58	0	0	0.00	0.00	0.00	0.00
WEST, JIMMIE E.	10	8	7	(7)	(7)	1	1	0	0	1	0.05	0.00	27.80	27.80
WESTERN RIVERS CONSERVANCY	10	8	7	(7)	(7)	1	1	0	0	1	0.05	0.00	27.80	27.80
WESTERN WATER COMPANY	15	12	12	0	0	24	0	12	0	0	0.00	0.00	0.00	0.00
WESTLAND INDUSTRIES, INC.	54	33	20	0	0	53	29	24	0	29	0.00	0.00	0.00	0.00
WIENER, MELVIN AND MARIAM S.	30	18	18	0	0	36	0	18	0	0	0.00	0.00	0.00	0.00
WOOD, MICHAEL AND DENISE	0	0	0	0	35	35	35	0	0	0	0.00	0.00	0.00	0.00
WYATT FAMILY TRUST	70	56	56	(56)	(56)	0	0	0	0	0	0.00	0.00	0.00	0.00
TOTAL	114,308	70,473	21,802	(14,102)	(350)	77,823	64,955	9,389	1,285	55,460	10.74	714,460.00	5,971.44	720,431.44

AMENDED APPENDIX B FOR WATER YEAR 2016-17  
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CENTRO SUBAREA

PRODUCER	2016-17 FREE PRODUCTION ALLOWANCE						PRODUCTION						ASSESSMENTS DUE BY JULY 1, 2018 (AMOUNTS IN DOLLARS)		
	BASE ANNUAL PRODUCTION	BASE FREE PRODUCTION ALLOWANCE <sup>1</sup>	CARRYOVER FROM PREVIOUS YEAR <sup>2</sup>	TRANSFERS + OR (-)		TOTAL <sup>5</sup>	2016-17 VERIFIED PRODUCTION <sup>6</sup>	UNUSED FPA <sup>7</sup>	REPLACEMENT WATER OBLIGATION <sup>8</sup>	SUBJECT TO MAKEUP OBLIGATION <sup>9</sup>	MAKEUP WATER OBLIGATION	REPLACEMENT	MAKEUP	TOTAL	
				2015-16 CARRYOVER <sup>3</sup>	2016-17 FPA <sup>4</sup>							WATER	WATER		
												\$556.00/AF	N/A		
APPLE VALLEY HEIGHTS COUNTY WATER DISTRICT	29	24	24	(24)	(19)	5	0	5	0	0	0.00	0.00	0.00	0.00	
AQUA CAPITAL MANAGEMENT, LP	2,336	1,869	1,869	(1,425)	(1,834)	479	0	35	0	0	0.00	0.00	0.00	0.00	
ATCHISON, TOPEKA, SANTA FE RAILWAY COMPANY	120	96	64	(56)	(96)	8	0	0	0	0	0.00	0.00	0.00	0.00	
BAR-LEN MUTUAL WATER COMPANY	48	39	1	0	0	40	17	23	0	17	0.00	0.00	0.00	0.00	
BARSTOW COMMUNITY DEVELOPERS, LLC	0	0	0	0	11	11	11	0	0	0	0.00	0.00	0.00	0.00	
BEST, BYRON L.	21	17	17	0	0	34	0	17	0	0	0.00	0.00	0.00	0.00	
BROMMER FAMILY TRUST	361	289	289	(289)	(289)	0	0	0	0	0	0.00	0.00	0.00	0.00	
CHAFAR, LARRY R. AND DELINDA C.	46	37	37	0	0	74	1	37	0	1	0.00	0.00	0.00	0.00	
CHOI, YONG IL AND JOUNG AE	38	31	31	0	0	62	0	31	0	0	0.00	0.00	0.00	0.00	
CHONG, JOAN	52	42	42	0	0	84	28	42	0	28	0.00	0.00	0.00	0.00	
CHRISTISON, JOEL	75	60	60	0	0	120	1	60	0	1	0.00	0.00	0.00	0.00	
CONTRATTO, ERSULA	151	121	117	(101)	(121)	16	1	0	0	1	0.00	0.00	0.00	0.00	
DARR, JAMES S.	408	327	327	0	0	654	20	327	0	20	0.00	0.00	0.00	0.00	
DE VRIES, NEIL AND MARY FAMILY TRUST	3,800	3,040	3,040	0	0	6,080	1	3,040	0	1	0.00	0.00	0.00	0.00	
DORRANCE, DAVID W. AND TAMELA L.	19	16	0	0	(16)	0	0	0	0	0	0.00	0.00	0.00	0.00	
EYGNOR, ROBERT E. AND PATSY C.	50	40	40	0	(40)	40	0	0	0	0	0.00	0.00	0.00	0.00	
FEDERAL NATIONAL MORTGAGE ASSOCIATION - FANNIE MAE	30	24	24	0	0	48	0	24	0	0	0.00	0.00	0.00	0.00	
FRATES, D. COLE	13	11	0	0	(11)	0	0	0	0	0	0.00	0.00	0.00	0.00	
FRIEND, JOSEPH AND DEBORAH	60	48	48	0	0	96	10	48	0	10	0.00	0.00	0.00	0.00	
GABRYCH, EUGENE	132	106	106	0	0	212	0	106	0	0	0.00	0.00	0.00	0.00	
GAINES FAMILY TRUST, JACK AND MARY	92	74	74	0	0	148	0	74	0	0	0.00	0.00	0.00	0.00	
GOLDEN STATE WATER COMPANY	14,407	11,526	11,526	(2,764)	(965)	19,323	5,373	10,561	0	5,373	0.00	0.00	0.00	0.00	
GRILL, NICHOLAS P. AND MILLIE D. (SEE NOTE 15)	0	0	0	0	129	129	82	0	0	0	0.00	0.00	0.00	0.00	
GUTIERREZ, JOSE AND GLORIA	130	104	86	0	0	190	101	89	0	101	0.00	0.00	0.00	0.00	
HANIFY, MICHAEL D., DBA - WHITE BEAR RANCH	152	122	122	(122)	(122)	0	0	0	0	0	0.00	0.00	0.00	0.00	
HARMSER FAMILY TRUST	722	578	483	0	0	1,061	275	578	0	275	0.00	0.00	0.00	0.00	
HARPER LAKE COMPANY VIII	1,433	1,147	805	0	0	1,952	995	957	0	995	0.00	0.00	0.00	0.00	
HELENDALE COMMUNITY SERVICES DISTRICT	19	16	0	0	(16)	0	0	0	0	0	0.00	0.00	0.00	0.00	
HENSLEY, MARK P.	27	22	22	0	0	44	22	22	0	22	0.00	0.00	0.00	0.00	
HI DESERT MUTUAL WATER COMPANY	34	28	8	0	0	36	17	19	0	17	0.00	0.00	0.00	0.00	
HIGH DESERT ASSOCIATES, INC.	513	411	411	0	0	822	0	411	0	0	0.00	0.00	0.00	0.00	
HILL FAMILY TRUST AND HILL'S RANCH, INC. (SEE NOTE 15)	2,335	1,868	1,868	(274)	(338)	3,124	41	1,530	0	41	0.00	0.00	0.00	0.00	
HOWARD, ET AL.	43	35	35	0	0	70	0	35	0	0	0.00	0.00	0.00	0.00	
HUERTA, HECTOR	656	525	525	800	0	1,850	818	525	0	818	0.00	0.00	0.00	0.00	
JONES, JOETTE	22	18	18	0	0	36	0	18	0	0	0.00	0.00	0.00	0.00	

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CENTRO SUBAREA

PRODUCER	2016-17 FREE PRODUCTION ALLOWANCE						PRODUCTION			ASSESSMENTS DUE BY JULY 1, 2018 (AMOUNTS IN DOLLARS)				
	BASE ANNUAL PRODUCTION	BASE FREE PRODUCTION ALLOWANCE <sup>1</sup>	CARRYOVER FROM PREVIOUS YEAR <sup>2</sup>	TRANSFERS + OR (-)		TOTAL <sup>5</sup>	2016-17 VERIFIED PRODUCTION <sup>6</sup>	UNUSED FPA <sup>7</sup>	REPLACEMENT WATER OBLIGATION <sup>8</sup>	SUBJECT TO MAKEUP OBLIGATION <sup>9</sup>	MAKEUP WATER OBLIGATION	REPLACEMENT	MAKEUP	TOTAL
				2015-16 CARRYOVER <sup>3</sup>	2016-17 FPA <sup>4</sup>							WATER	WATER	
												\$556.00/AF	N/A	
JORDAN FAMILY TRUST	460	368	368	(307)	(368)	61	4	0	0	4	0.00	0.00	0.00	0.00
KASNER FAMILY LIMITED PARTNERSHIP (SEE NOTE 15)	421	337	337	0	0	674	7	337	0	7	0.00	0.00	0.00	0.00
KIM, JIN S. AND HYUN H.	190	152	152	(152)	(152)	0	0	0	0	0	0.00	0.00	0.00	0.00
LEE, ET AL., SEPOONG AND WOO POONG	77	62	62	0	0	124	1	62	0	1	0.00	0.00	0.00	0.00
LEYERLY, GENEVA (SEE NOTE 12)	65						4							
MCCOLLUM, CHARLES L.	115	92	92	0	0	184	0	92	0	0	0.00	0.00	0.00	0.00
MEAD FAMILY TRUST	115	92	92	0	0	184	1	92	0	1	0.00	0.00	0.00	0.00
MOJAVE SOLAR, LLC	5,239	4,192	4,192	0	0	8,384	1,506	4,192	0	1,506	0.00	0.00	0.00	0.00
MOST FAMILY TRUST	56	45	45	0	0	90	0	45	0	0	0.00	0.00	0.00	0.00
NURSERY PRODUCTS LLC	0	0	0	0	12	12	12	0	0	0	0.00	6,672.00	0.00	6,672.00
ODESSA WATER DISTRICT	299	240	240	0	0	480	0	240	0	0	0.00	0.00	0.00	0.00
OHAI, REYNOLDS AND DOROTHY	137	110	110	0	0	220	1	110	0	1	0.00	0.00	0.00	0.00
OSTERKAMP, GEROLD (SEE NOTE 12)	260						125							
PACIFIC GAS AND ELECTRIC COMPANY	4,474	3,580	3,580	0	0	7,160	2,593	3,580	0	2,593	0.00	0.00	0.00	0.00
RIOS, MARIANO V.	8	7	4	0	0	11	6	5	0	6	0.00	0.00	0.00	0.00
RIVERO, FIDEL V.	20	16	16	0	0	32	1	16	0	1	0.00	0.00	0.00	0.00
RUISCH TRUST, DALE W. AND NELLIE H.	650	520	385	0	0	905	646	259	0	646	0.00	0.00	0.00	0.00
RUISCH, ET AL. (SEE NOTE 12)	862						594							
SERVICE ROCK PRODUCTS CORPORATION	766	613	613	0	0	1,226	77	613	0	77	0.00	0.00	0.00	0.00
SEXTON, RODNEY A. AND SEXTON, DEREK R.	232	186	186	0	0	372	0	186	0	0	0.00	0.00	0.00	0.00
SOPPELAND REVOCABLE TRUST	478	383	383	(383)	(376)	7	7	0	0	7	0.00	0.00	0.00	0.00
TALLAKSON FAMILY REVOCABLE TRUST	17	14	14	0	0	28	6	14	0	6	0.00	0.00	0.00	0.00
VALENTI, VITO	17	14	14	0	0	28	1	14	0	1	0.00	0.00	0.00	0.00
VAN DAM REVOCABLE TRUST, E AND S	722	578	578	(385)	(129)	642	168	449	0	168	0.00	0.00	0.00	0.00
VAN LEEUWEN, JOHN	1,465	1,172	1,111	0	0	2,283	1,049	1,172	0	1,049	0.00	0.00	0.00	0.00
VERNOLA TRUST, PAT AND MARY ANN	3,116	2,493	2,493	1,600	0	6,586	3,281	2,493	0	3,281	0.00	0.00	0.00	0.00
VICTORVILLE WATER DISTRICT, ID#1	796	637	161	(161)	(637)	0	0	0	0	0	0.00	0.00	0.00	0.00
WERNER, ANDREW J.	18	15	0	0	(15)	0	0	0	0	0	0.00	0.00	0.00	0.00
WESTERN DEVELOPMENT AND STORAGE, LLC	6	5	0	0	(5)	0	0	0	0	0	0.00	0.00	0.00	0.00
WITHEY, CONNIE	22	18	18	0	0	36	1	18	0	1	0.00	0.00	0.00	0.00
TOTAL	49,477	38,652	37,365	(4,043)	(5,397)	66,577	17,905	32,603	0	17,077	0.00	6,672.00	0.00	6,672.00

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## BAJA SUBAREA

PRODUCER	2016-17 FREE PRODUCTION ALLOWANCE						PRODUCTION						ASSESSMENTS DUE BY JULY 1, 2018 (AMOUNTS IN DOLLARS)		
	BASE ANNUAL PRODUCTION	BASE FREE PRODUCTION ALLOWANCE <sup>1</sup>	CARRYOVER FROM PREVIOUS YEAR <sup>2</sup>	TRANSFERS + OR (-)		TOTAL <sup>5</sup>	2016-17 VERIFIED PRODUCTION <sup>6</sup>	UNUSED FPA <sup>7</sup>	REPLACEMENT WATER OBLIGATION <sup>8</sup>	SUBJECT TO MAKEUP OBLIGATION <sup>9</sup>	MAKEUP WATER OBLIGATION	REPLACEMENT	MAKEUP	TOTAL	
				2015-16 CARRYOVER <sup>3</sup>	2016-17 FPA <sup>4</sup>							WATER	WATER		
												\$556.00/AF	N/A		
35250 YERMO, LLC	24	11	12	0	0	23	14	9	0	14	0.00	0.00	0.00	0.00	
AHN, CHUN SOO AND WHA JA	50	23	25	0	0	48	1	23	0	1	0.00	0.00	0.00	0.00	
AKE, CHARLES J. AND MARJORIE M.	23	11	12	0	0	23	0	11	0	0	0.00	0.00	0.00	0.00	
ARCHIBEK, ERIC	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	
ARGUELLES, ALFREDO	647	292	324	0	0	616	233	292	0	233	0.00	0.00	0.00	0.00	
ATCHISON, TOPEKA, SANTA FE RAILWAY COMPANY	80	36	4	0	0	40	56	0	16	40	0.00	8,896.00	0.00	8,896.00	
BAILEY 2007 LIVING REVOCABLE TRUST, SHERÉ R.	27	13	14	0	0	27	0	13	0	0	0.00	0.00	0.00	0.00	
BARBER, JAMES B.	167	76	39	0	0	115	37	76	0	37	0.00	0.00	0.00	0.00	
BARON, SUSAN AND PALMER, CURTIS	26	12	13	0	0	25	0	12	0	0	0.00	0.00	0.00	0.00	
BENDER TRUST, DOLORES M.	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	
BORGOGNO REVOCABLE LIVING TRUST	1,844	830	595	0	0	1,425	1,056	369	0	1,056	0.00	0.00	0.00	0.00	
BORJA, LEONIL T. AND TITAL L.	20	9	10	0	0	19	0	9	0	0	0.00	0.00	0.00	0.00	
BOWMAN FAMILY TRUST	0	0	6	(6)	0	0	0	0	0	0	0.00	0.00	0.00	0.00	
BREDELIS, RONALD C. AND JEAN	64	29	31	0	0	60	24	29	0	24	0.00	0.00	0.00	0.00	
BROWN, RONALD A.	1,080	486	0	0	0	486	324	162	0	324	0.00	0.00	0.00	0.00	
BUDGET FINANCE COMPANY	32	15	16	0	0	31	0	15	0	0	0.00	0.00	0.00	0.00	
BUSH, KEVIN	0	0	55	(55)	0	0	0	0	0	0	0.00	0.00	0.00	0.00	
CALICO JUNCTION	20	9	10	0	0	19	0	9	0	0	0.00	0.00	0.00	0.00	
CALICO LAKES HOMEOWNERS ASSOCIATION	1,293	582	313	0	0	895	259	525	0	259	0.00	0.00	0.00	0.00	
CALIFORNIA DEPARTMENT OF TRANSPORTATION	71	32	36	0	0	68	17	32	0	17	0.00	0.00	0.00	0.00	
CALMAT COMPANY	0	0	0	0	18	18	9	0	0	0	0.00	0.00	0.00	0.00	
CAMANGA, TONY AND MARIETTA	47	22	24	0	0	46	1	22	0	1	0.00	0.00	0.00	0.00	
CAMPBELL, M. A. AND DIANNE	22	10	11	0	0	21	0	10	0	0	0.00	0.00	0.00	0.00	
CARLTON, SUSAN	155	70	78	0	0	148	2	70	0	2	0.00	0.00	0.00	0.00	
CDFW - CAMP CADY	921	415	461	0	0	876	84	415	0	84	0.00	0.00	0.00	0.00	
CF PROPERTIES, LLC	845	381	289	0	0	670	280	381	0	280	0.00	0.00	0.00	0.00	
CHEYENNE LAKE, INC.	444	200	213	18	0	431	193	197	0	193	0.00	0.00	0.00	0.00	
CLARK, ARTHUR	50	23	25	0	0	48	0	23	0	0	0.00	0.00	0.00	0.00	
CONNER, WILLIAM H.	25	12	13	0	0	25	0	12	0	0	0.00	0.00	0.00	0.00	
CORBRIDGE, LINDA S.	32	15	16	0	0	31	6	15	0	6	0.00	0.00	0.00	0.00	
CRANDALL, ESTHER	0	0	3	(3)	0	0	0	0	0	0	0.00	0.00	0.00	0.00	
CROSS, FRANCIS AND BEVERLY	40	18	20	0	0	38	0	18	0	0	0.00	0.00	0.00	0.00	
CRYSTAL LAKES PROPERTY OWNERS ASSOCIATION	701	316	227	232	0	775	430	316	0	430	0.00	0.00	0.00	0.00	
DAGGETT COMMUNITY SERVICES DISTRICT	304	137	0	0	86	223	223	0	0	137	0.00	0.00	0.00	0.00	
DAGGETT RANCH, LLC	76	35	38	0	0	73	36	35	0	36	0.00	0.00	0.00	0.00	
DE JONG FAMILY TRUST	3,131	1,409	1,526	653	0	3,588	2,134	1,409	0	2,134	0.00	0.00	0.00	0.00	
DENNISON, QUENTIN D. - CLEGG, FRIZELL AND JOKE	29	14	15	0	0	29	0	14	0	0	0.00	0.00	0.00	0.00	

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PRODUCER	2016-17 FREE PRODUCTION ALLOWANCE						ASSESSMENTS DUE BY JULY 1, 2018 (AMOUNTS IN DOLLARS)							
	BASE ANNUAL PRODUCTION	BASE FREE PRODUCTION ALLOWANCE <sup>1</sup>	CARRYOVER FROM PREVIOUS YEAR <sup>2</sup>	TRANSFERS + OR (-)		TOTAL <sup>5</sup>	2016-17 VERIFIED PRODUCTION <sup>6</sup>	UNUSED FPA <sup>7</sup>	REPLACEMENT WATER OBLIGATION <sup>8</sup>	PRODUCTION SUBJECT TO MAKEUP OBLIGATION <sup>9</sup>	MAKEUP WATER OBLIGATION	REPLACEMENT WATER \$556.00/AF	MAKEUP WATER N/A	TOTAL
				2015-16 CARRYOVER <sup>3</sup>	2016-17 FPA <sup>4</sup>									

DOCIMO LIVING TRUST, ALLEN LEE	109	50	48	0	0	98	65	33	0	65	0.00	0.00	0.00	0.00
DONALDSON, JERRY AND BEVERLY	90	41	45	0	0	86	1	41	0	1	0.00	0.00	0.00	0.00
DOWELL, LEONARD	23	11	12	0	0	23	0	11	0	0	0.00	0.00	0.00	0.00
EVERT FAMILY TRUST	73	33	0	0	0	33	26	7	0	26	0.00	0.00	0.00	0.00
FEJFAR, MONICA KAY	20	9	10	0	0	19	0	9	0	0	0.00	0.00	0.00	0.00
FERNANDEZ, ARTURO	76	35	38	0	0	73	0	35	0	0	0.00	0.00	0.00	0.00
FERRO, DENNIS AND NORMA	32	15	16	0	0	31	0	15	0	0	0.00	0.00	0.00	0.00
FIRST CPA LLC	57	26	29	0	0	55	31	24	0	31	0.00	0.00	0.00	0.00
FUNDAMENTAL CHRISTIAN ENDEAVORS, INC.	425	192	213	0	0	405	141	192	0	141	0.00	0.00	0.00	0.00
GABRYCH, EUGENE	1,637	737	793	0	0	1,530	851	679	0	851	0.00	0.00	0.00	0.00
GARCIA, DANIEL	23	11	12	0	0	23	2	11	0	2	0.00	0.00	0.00	0.00
GARG, OM P.	483	218	231	(81)	0	368	4	218	0	4	0.00	0.00	0.00	0.00
GENON ENERGY, INC.	7,194	3,238	3,597	(3,000)	(6)	3,829	580	3,232	0	580	0.00	0.00	0.00	0.00
GRAY, GEORGE F. AND BETTY E.	94	43	47	0	0	90	0	43	0	0	0.00	0.00	0.00	0.00
HACKBARTH, EDWARD E.	1,517	683	182	151	0	1,016	876	140	0	876	0.00	0.00	0.00	0.00
HANSON AGGREGATES WRP, INC.	31	14	16	0	0	30	0	14	0	0	0.00	0.00	0.00	0.00
HARESON, NICHOLAS AND MARY	8	4	4	0	0	8	0	4	0	0	0.00	0.00	0.00	0.00
HARTER, JOE AND SUE	5,234	2,356	2,558	0	0	4,914	2,361	2,356	0	2,361	0.00	0.00	0.00	0.00
HASS, PAULINE L.	35	16	17	(17)	0	16	1	15	0	1	0.00	0.00	0.00	0.00
HENDLEY, RICK AND BARBARA	48	22	24	0	0	46	6	22	0	6	0.00	0.00	0.00	0.00
HIETT, HARRY L.	29	14	15	0	0	29	2	14	0	2	0.00	0.00	0.00	0.00
HILARIDES 1998 REVOCABLE FAMILY TRUST	303	137	151	(151)	0	137	1	136	0	1	0.00	0.00	0.00	0.00
HO, TING-SENG AND AH-GIT	300	135	150	0	0	285	0	135	0	0	0.00	0.00	0.00	0.00
HOLLISTER, ROBERT H. AND RUTH M.	44	20	22	0	0	42	7	20	0	7	0.00	0.00	0.00	0.00
HONG, PAUL B. AND MAY	85	39	43	0	0	82	0	39	0	0	0.00	0.00	0.00	0.00
HOOD FAMILY TRUST	41	19	21	0	0	40	2	19	0	2	0.00	0.00	0.00	0.00
HORTON, JOHN	242	109	121	(80)	(97)	53	15	12	0	15	0.00	0.00	0.00	0.00
HORTON'S CHILDREN'S TRUST	199	90	0	0	49	139	128	0	0	90	0.00	0.00	0.00	0.00
HUBBARD, ESTER AND MIZUNO, ARLEAN	28	13	14	0	0	27	0	13	0	0	0.00	0.00	0.00	0.00
HUNT, RALPH M. AND LILLIAN F.	51	23	26	0	0	49	3	23	0	3	0.00	0.00	0.00	0.00
HUTCHISON TRUST, WILLIAM O.	0	0	184	(179)	0	5	0	0	0	0	0.00	0.00	0.00	0.00
HYATT, JAMES AND BRENDA	210	95	105	(19)	0	181	17	95	0	17	0.00	0.00	0.00	0.00
IM, NICHOLAS NAK-KYUN	150	68	0	102	0	170	78	68	0	78	0.00	0.00	0.00	0.00
IRVIN, BERTRAND W.	29	14	15	10	0	39	20	14	0	20	0.00	0.00	0.00	0.00
ITALMOOD INC., ET. AL.	190	86	95	0	0	181	65	86	0	65	0.00	0.00	0.00	0.00
JACKS, JAMES F.	10	5	4	0	0	9	1	5	0	1	0.00	0.00	0.00	0.00
JACKSON, JAMES N. JR REVOCABLE LIVING TRUST	54	25	27	(10)	0	42	0	25	0	0	0.00	0.00	0.00	0.00

AMENDED APPENDIX B FOR WATER YEAR 2016-17  
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AND ALL OTHER ERRATA

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BAJA SUBAREA

PRODUCER	2016-17 FREE PRODUCTION ALLOWANCE						PRODUCTION						ASSESSMENTS DUE BY JULY 1, 2018 (AMOUNTS IN DOLLARS)		
	BASE ANNUAL PRODUCTION	BASE FREE PRODUCTION ALLOWANCE <sup>1</sup>	CARRYOVER FROM PREVIOUS YEAR <sup>2</sup>	TRANSFERS + OR (-)		TOTAL <sup>5</sup>	2016-17 VERIFIED PRODUCTION <sup>6</sup>	UNUSED FPA <sup>7</sup>	REPLACEMENT WATER OBLIGATION <sup>8</sup>	SUBJECT TO MAKEUP OBLIGATION <sup>9</sup>	MAKEUP WATER OBLIGATION	REPLACEMENT	MAKEUP	TOTAL	
				2015-16 CARRYOVER <sup>3</sup>	2016-17 FPA <sup>4</sup>							WATER	WATER		
												\$556.00/AF	N/A		
JACKSON, RAY REVOCABLE TRUST NO. 45801	1	1	10	0	0	11	0	1	0	0	0.00	0.00	0.00	0.00	
JOHNSON, JAMES R. AND ELLEN	247	112	105	(105)	0	112	23	89	0	23	0.00	0.00	0.00	0.00	
KARIMI, HOOSHANG	70	32	35	0	0	67	0	32	0	0	0.00	0.00	0.00	0.00	
KASNER FAMILY LIMITED PARTNERSHIP	843	380	371	(247)	876	1,380	1,380	0	0	504	0.00	0.00	0.00	0.00	
KASNER, ROBERT (SEE NOTE 15)	5,713	2,571	0	1,931	(876)	3,626	3,486	117	0	3,486	0.00	0.00	0.00	0.00	
KATCHER, AUGUST M. AND MARCELINE	23	11	12	0	0	23	1	11	0	1	0.00	0.00	0.00	0.00	
KEMP, ROBERT AND ROSE	32	15	16	0	0	31	0	15	0	0	0.00	0.00	0.00	0.00	
KIM, JOON HO AND MAL BOON REVOCABLE TRUST	764	344	382	(79)	0	647	304	343	0	304	0.00	0.00	0.00	0.00	
KIM, SEON JA	50	23	25	0	0	48	1	23	0	1	0.00	0.00	0.00	0.00	
KOEGLER, RONALD R. AND CAROLYN V.	26	12	13	0	0	25	11	12	0	11	0.00	0.00	0.00	0.00	
KOERING, RICHARD AND KOERING, DONNA	20	9	10	0	0	19	1	9	0	1	0.00	0.00	0.00	0.00	
KOROGHLIAN, TED AND NAJWA	15	7	1	0	0	8	6	2	0	6	0.00	0.00	0.00	0.00	
KOSHAREK, JOHN AND JOANN	54	25	27	0	0	52	12	25	0	12	0.00	0.00	0.00	0.00	
LAKE JODIE PROPERTY OWNERS ASSOCIATION	311	140	47	254	0	441	291	140	0	291	0.00	0.00	0.00	0.00	
LAKE WAIKIKI	98	45	49	0	0	94	0	45	0	0	0.00	0.00	0.00	0.00	
LAKE WAINANI OWNERS ASSOCIATION	860	387	142	0	0	529	203	230	0	203	0.00	0.00	0.00	0.00	
LAM, PHILLIP	105	48	53	0	0	101	4	48	0	4	0.00	0.00	0.00	0.00	
LANGLEY, MICHAEL R. AND SHARON	20	9	7	0	0	16	9	7	0	9	0.00	0.00	0.00	0.00	
LAVANH, ET AL.	24	11	12	0	0	23	1	11	0	1	0.00	0.00	0.00	0.00	
LAWRENCE, WILLIAM W.	45	21	23	0	0	44	1	21	0	1	0.00	0.00	0.00	0.00	
LEE, VIN JANG T.	630	284	315	0	0	599	0	284	0	0	0.00	0.00	0.00	0.00	
LEM, HOY	32	15	16	0	0	31	0	15	0	0	0.00	0.00	0.00	0.00	
LIANG, YUAN - I AND TZU - MEI CHEN	200	90	100	0	0	190	0	90	0	0	0.00	0.00	0.00	0.00	
LIBERTY UTILITIES (APPLE VALLEY RANCHOS WATER) CORP.	453	204	226	(51)	0	379	135	204	0	135	0.00	0.00	0.00	0.00	
LIN, KUAN JUNG AND CHUNG, DER-BING	451	203	226	0	0	429	0	203	0	0	0.00	0.00	0.00	0.00	
LO, ET AL.	59	27	30	0	0	57	55	2	0	55	0.00	0.00	0.00	0.00	
M BIRD CONSTRUCTION	41	19	21	0	0	40	0	19	0	0	0.00	0.00	0.00	0.00	
MAHJOUBI, AFSAR S.	63	29	32	0	0	61	0	29	0	0	0.00	0.00	0.00	0.00	
MALONEY, JANICE	36	17	18	0	0	35	2	17	0	2	0.00	0.00	0.00	0.00	
MANNING, SHARON S.	63	29	8	0	6	43	43	0	0	37	0.00	0.00	0.00	0.00	
MARCROFT, JAMES A. AND JOAN	38	18	19	0	0	37	24	13	0	24	0.00	0.00	0.00	0.00	
MARSHALL, CHARLES	20	9	10	0	0	19	0	9	0	0	0.00	0.00	0.00	0.00	
MARTIN, MICHAEL D. AND ARLENE D.	63	29	10	0	0	39	42	0	3	39	0.00	1,668.00	0.00	1,668.00	
MILBRAT, IRVING H.	73	33	37	0	0	70	30	33	0	30	0.00	0.00	0.00	0.00	
MILLER LIVING TRUST	18	9	9	0	0	18	0	9	0	0	0.00	0.00	0.00	0.00	
MIZRAHIE, ET AL.	145	66	73	0	0	139	0	66	0	0	0.00	0.00	0.00	0.00	



AMENDED APPENDIX B FOR WATER YEAR 2016-17  
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BAJA SUBAREA

PRODUCER	2016-17 FREE PRODUCTION ALLOWANCE						ASSESSMENTS DUE BY JULY 1, 2018 (AMOUNTS IN DOLLARS)								
	BASE ANNUAL PRODUCTION	BASE FREE PRODUCTION ALLOWANCE <sup>1</sup>	CARRYOVER FROM PREVIOUS YEAR <sup>2</sup>	TRANSFERS + OR (-)		TOTAL <sup>5</sup>	2016-17 VERIFIED PRODUCTION <sup>6</sup>	UNUSED FPA <sup>7</sup>	REPLACEMENT WATER OBLIGATION <sup>8</sup>	PRODUCTION SUBJECT TO MAKEUP OBLIGATION <sup>9</sup>	MAKEUP WATER OBLIGATION	REPLACEMENT	MAKEUP	TOTAL	
				2015-16 CARRYOVER <sup>3</sup>	2016-17 FPA <sup>4</sup>							WATER	WATER		
												\$556.00/AF	N/A		
MORRIS TRUST, JULIA V.	304	137	152	(152)	0	137	1	136	0	1	0.00	0.00	0.00	0.00	
MULLIGAN, ROBERT AND INEZ	35	16	18	0	0	34	10	16	0	10	0.00	0.00	0.00	0.00	
MURPHY, JEAN	24	11	12	0	0	23	4	11	0	4	0.00	0.00	0.00	0.00	
NEW SPRINGS LIMITED PARTNERSHIP	2,329	1,049	915	(49)	(375)	1,540	0	674	0	0	0.00	0.00	0.00	0.00	
NEWBERRY COMMUNITY SERVICES DISTRICT	23	11	3	0	0	14	10	4	0	10	0.00	0.00	0.00	0.00	
NEWBERRY SPRINGS RECREATIONAL LAKES ASSOCIATION	1	1	2	(2)	0	1	0	1	0	0	0.00	0.00	0.00	0.00	
O. F. D. L., INC.	222	100	99	68	0	267	169	98	0	169	0.00	0.00	0.00	0.00	
P AND H ENGINEERING AND DEVELOPMENT CORPORATION	667	301	334	0	0	635	0	301	0	0	0.00	0.00	0.00	0.00	
PATINO, JOSÉ	22	10	11	0	0	21	1	10	0	1	0.00	0.00	0.00	0.00	
PEARCE, CRAIG L.	150	68	75	0	0	143	3	68	0	3	0.00	0.00	0.00	0.00	
PERKO, BERT K.	132	60	66	0	0	126	45	60	0	45	0.00	0.00	0.00	0.00	
POLAND, JOHN R. AND KATHLEEN A.	92	42	46	0	0	88	11	42	0	11	0.00	0.00	0.00	0.00	
PORTER, TIMOTHY M.	30	14	15	0	0	29	0	14	0	0	0.00	0.00	0.00	0.00	
POZZATO PARTNERS, LIMITED (FORMERLY: D'SILVA, MELANIE)	54	25	0	0	0	25	33	0	8	25	0.00	4,448.00	0.00	4,448.00	
PRICE, DONALD AND RUTH	42	19	21	0	0	40	1	19	0	1	0.00	0.00	0.00	0.00	
PRUETT, ANDREA	36	17	18	0	0	35	0	17	0	0	0.00	0.00	0.00	0.00	
QUIROS, FRANCISCO J. AND HERRMANN, RONALD	38	18	19	0	0	37	31	6	0	31	0.00	0.00	0.00	0.00	
RICE, HENRY C. AND DIANA	24	11	12	0	0	23	1	11	0	1	0.00	0.00	0.00	0.00	
RIZVI, S.R ALI	27	13	14	0	0	27	0	13	0	0	0.00	0.00	0.00	0.00	
ROSSI, JAMES L. AND NAOMI I.	614	277	104	0	0	381	198	183	0	198	0.00	0.00	0.00	0.00	
S AND B BROTHERS, LLC	221	100	106	0	0	206	91	65	0	91	0.00	0.00	0.00	0.00	
SAGABEAN-BARKER, KANOELOKELANI L.	34	16	17	0	0	33	14	16	0	14	0.00	0.00	0.00	0.00	
SAMRA, JAGTAR S.	30	14	12	0	0	26	10	14	0	10	0.00	0.00	0.00	0.00	
SAN BERNARDINO CO BARSTOW - DAGGETT AIRPORT	168	76	84	0	0	160	33	76	0	33	0.00	0.00	0.00	0.00	
SERVICE ROCK PRODUCTS CORPORATION	0	0	0	0	0	0	1	0	1	0	0.00	556.00	0.00	556.00	
SHAW, ROBERT M. AND LORI A. SLATER-SHAW	43	20	22	0	0	42	11	20	0	11	0.00	0.00	0.00	0.00	
SHENG, JEN	33	15	17	0	0	32	3	15	0	3	0.00	0.00	0.00	0.00	
SHEPPARD, THOMAS AND GLORIA	217	98	109	0	0	207	13	98	0	13	0.00	0.00	0.00	0.00	
SHORT, CHARLES AND MARGARET	54	25	27	0	0	52	13	25	0	13	0.00	0.00	0.00	0.00	
SHORT, JEROME E.	30	14	15	0	0	29	17	12	0	17	0.00	0.00	0.00	0.00	
SINGH, ET AL.	31	14	16	0	0	30	0	14	0	0	0.00	0.00	0.00	0.00	
SMITH, DENISE DBA AMEREQUINE BEAUTY, INC	0	0	0	0	113	113	113	0	0	0	0.00	0.00	0.00	0.00	
SMITH, PORTER AND ANITA	25	12	13	0	0	25	0	12	0	0	0.00	0.00	0.00	0.00	
SMITH, WILLIAM E. AND PATRICIA A.	19	9	10	0	0	19	5	9	0	5	0.00	0.00	0.00	0.00	
SOUTHERN CALIFORNIA EDISON COMPANY	600	270	300	0	0	570	0	270	0	0	0.00	0.00	0.00	0.00	
SOUTHERN CALIFORNIA GAS COMPANY	98	45	49	0	0	94	7	45	0	7	0.00	0.00	0.00	0.00	

AMENDED APPENDIX B FOR WATER YEAR 2016-17  
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BAJA SUBAREA

PRODUCER	2016-17 FREE PRODUCTION ALLOWANCE						ASSESSMENTS DUE BY JULY 1, 2018 (AMOUNTS IN DOLLARS)								
	BASE ANNUAL PRODUCTION	BASE FREE PRODUCTION ALLOWANCE <sup>1</sup>	CARRYOVER FROM PREVIOUS YEAR <sup>2</sup>	TRANSFERS + OR (-)		TOTAL <sup>5</sup>	2016-17 VERIFIED PRODUCTION <sup>6</sup>	UNUSED FPA <sup>7</sup>	REPLACEMENT WATER OBLIGATION <sup>8</sup>	PRODUCTION SUBJECT TO MAKEUP OBLIGATION <sup>9</sup>	MAKEUP WATER OBLIGATION	REPLACEMENT	MAKEUP	TOTAL	
				2015-16 CARRYOVER <sup>3</sup>	2016-17 FPA <sup>4</sup>							WATER	WATER		
												\$556.00/AF	N/A		
SPERRY, WESLEY	104	47	52	0	0	99	0	47	0	0	0.00	0.00	0.00	0.00	
ST. ANTONY COPTIC ORTHODOX MONASTERY	130	59	270	0	200	529	324	205	0	324	0.00	0.00	0.00	0.00	
STARKE, GEORGE A. AND JAYNE E.	23	11	12	0	0	23	0	11	0	0	0.00	0.00	0.00	0.00	
SUNDOWN LAKES, INC.	342	154	10	172	0	336	168	154	0	168	0.00	0.00	0.00	0.00	
SUNRAY ENERGY, INC.	0	0	32	(32)	0	0	0	0	0	0	0.00	0.00	0.00	0.00	
SUNRAY LAND COMPANY, LLC (FORMERLY: SUNRAY ENERGY, INC)	63	29	0	32	0	61	14	29	0	14	0.00	0.00	0.00	0.00	
SZYNKOWSKI, RUTH J.	29	14	15	0	0	29	2	14	0	2	0.00	0.00	0.00	0.00	
TAPIE, RAYMOND L.	18	9	9	0	0	18	1	9	0	1	0.00	0.00	0.00	0.00	
TEISAN, JERRY	96	44	48	0	0	92	0	44	0	0	0.00	0.00	0.00	0.00	
THAYER, SHARON	97	44	49	0	0	93	30	44	0	30	0.00	0.00	0.00	0.00	
THOMAS, STEPHEN AND LORI	49	23	25	0	0	48	5	23	0	5	0.00	0.00	0.00	0.00	
TRIPLE H PARTNERSHIP	218	99	109	0	0	208	69	99	0	69	0.00	0.00	0.00	0.00	
TSUI, RICHARD	472	213	236	(236)	0	213	0	213	0	0	0.00	0.00	0.00	0.00	
TURNER, TERRY	30	14	15	0	0	29	1	14	0	1	0.00	0.00	0.00	0.00	
UNION PACIFIC RAILROAD COMPANY	249	113	125	0	0	238	54	113	0	54	0.00	0.00	0.00	0.00	
VACA, ANDY AND TERESITA S.	20	9	9	0	0	18	11	7	0	11	0.00	0.00	0.00	0.00	
VAN BASTELAAR, ALPHONSE	78	36	0	0	44	80	80	0	0	36	0.00	0.00	0.00	0.00	
VAN DAM FAMILY TRUST, GLEN AND JENNIFER	5,430	2,444	2,491	0	0	4,935	2,215	2,444	0	2,215	0.00	0.00	0.00	0.00	
VAN LEEUWEN, JOHN	2,018	909	1,009	0	0	1,918	1,050	868	0	1,050	0.00	0.00	0.00	0.00	
VANDER DUSSEN TRUST, AGNES AND EDWARD	1,792	807	864	0	0	1,671	1,106	565	0	1,106	0.00	0.00	0.00	0.00	
WANG, STEVEN	10	5	5	0	0	10	0	5	0	0	0.00	0.00	0.00	0.00	
WARD, RAYMOND	105	48	19	0	0	67	91	0	24	67	0.00	13,344.00	0.00	13,344.00	
WEEMS, LIZZIE	53	24	27	0	0	51	8	24	0	8	0.00	0.00	0.00	0.00	
WEERAISINGHE, MAITHRI N.	15	7	8	0	0	15	1	7	0	1	0.00	0.00	0.00	0.00	
WESTERN HERITAGE, INC.	854	385	427	0	0	812	0	385	0	0	0.00	0.00	0.00	0.00	
WESTERN HORIZON ASSOCIATES, INC.	1,363	614	209	(48)	(86)	689	576	113	0	576	0.00	0.00	0.00	0.00	
WET SET, INC.	326	147	65	70	0	282	134	114	0	134	0.00	0.00	0.00	0.00	
WITTE, E. DANIEL AND MARCIA	27	13	14	0	0	27	1	13	0	1	0.00	0.00	0.00	0.00	
WLSR, INC.	250	113	78	84	0	275	133	113	0	133	0.00	0.00	0.00	0.00	
WORSEY, JOSEPH A. AND REVAE	29	14	15	0	0	29	0	14	0	0	0.00	0.00	0.00	0.00	
TOTAL	63,929	28,849	24,829	(825)	(48)	52,805	23,691	22,568	52	22,467	0.00	28,912.00	0.00	28,912.00	

APPENDIX I - SUMMARY

MARCH 27, 2019

AMENDED APPENDIX B FOR WATER YEAR 2016-17  
RECONCILED FOR CARRYOVER TRANSFERS IN LIEU OF PAYMENT OF REPLACEMENT AND MAKEUP WATER ASSESSMENTS  
AND ALL OTHER ERRATA

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SUBAREA	2016-17 FREE PRODUCTION ALLOWANCE						PRODUCTION					ASSESSMENTS DUE BY JULY 1, 2018 (AMOUNTS IN DOLLARS)		
	BASE ANNUAL PRODUCTION	BASE FREE PRODUCTION ALLOWANCE <sup>1</sup>	CARRYOVER FROM PREVIOUS YEAR <sup>2</sup>	TRANSFERS + OR (-)		TOTAL <sup>5</sup>	2016-17 VERIFIED PRODUCTION <sup>6</sup>	UNUSED <sup>7</sup> FPA	REPLACEMENT WATER OBLIGATION <sup>8</sup>	PRODUCTION SUBJECT TO MAKEUP OBLIGATION <sup>9</sup>	MAKEUP WATER OBLIGATION	REPLACEMENT WATER	MAKEUP WATER	TOTAL
				2015-16 CARRYOVER <sup>3</sup>	2016-17 FPA <sup>4</sup>									
ESTE	19,251	15,422	15,053	(245)	0	30,230	4,233	14,797	20	3,901	0.00	11,120.00	0.00	11,120.00
OESTE	6,857	5,488	4,520	(618)	0	9,390	3,194	4,156	0	3,194	0.00	0.00	0.00	0.00
ALTO	114,308	70,473	21,802	(14,102)	(350)	77,823	70,281	9,389	1,285	55,460	10.74	714,460.00	5,971.44	720,431.44
CENTRO	49,477	38,652	37,365	(4,043)	(5,397)	66,577	17,905	32,603	0	17,077	0.00	6,672.00	0.00	6,672.00
BAJA	63,929	28,849	24,829	(825)	(48)	52,805	23,691	22,568	52	22,467	0.00	28,912.00	0.00	28,912.00
GRAND TOTAL	253,822	158,884	103,569	(19,833)	(5,795)	236,825	119,304	83,513	1,357	102,099	10.74	761,164.00	5,971.44	767,135.44

## NOTES FOR APPENDIX I

- 1 EQUAL TO 80% OF BASE ANNUAL PRODUCTION IN THE ESTE, OESTE AND CENTRO SUBAREAS AND FOR THE AGRICULTURAL PRODUCERS IN THE ALTO SUBAREA. EQUAL TO 60% OF BASE ANNUAL PRODUCTION FOR THE MUNICIPAL AND INDUSTRIAL PRODUCERS IN THE ALTO SUBAREA. EQUAL TO 45% OF BASE ANNUAL PRODUCTION IN THE BAJA SUBAREA.
- 2 UNUSED FPA FROM 2015-16 NET OF ANY TRANSFERS DURING 2015-16.
- 3 TRANSFERS OF 2015-16 UNUSED FPA FOR USE DURING 2016-17. AMOUNTS SOLD OR OTHERWISE RELINQUISHED ARE SHOWN IN PARENTHESIS. SEE APPENDIX E.
- 4 TRANSFERS OF 2016-17 BASE FREE PRODUCTION ALLOWANCE. AMOUNTS SOLD OR OTHERWISE RELINQUISHED ARE SHOWN IN PARENTHESIS. SEE APPENDIX E.
- 5 TOTAL FREE PRODUCTION ALLOWANCE FOR 2016-17 IS EQUAL TO THE SUM OF BASE FREE PRODUCTION ALLOWANCE, CARRYOVER AND TRANSFERS.
- 6 2016-17 VERIFIED PRODUCTION.
- 7 UNUSED FPA IS EQUAL TO THE TOTAL FPA MINUS TOTAL VERIFIED PRODUCTION, BUT NOT GREATER THAN THE SUM OF BASE FREE PRODUCTION ALLOWANCE AND 2016-17 FPA TRANSFERS.
- 8 WATER PRODUCTION IN EXCESS OF TOTAL FREE PRODUCTION ALLOWANCE.
- 9 PRODUCTION SUBJECT TO MAKEUP OBLIGATION IS EQUAL TO THE TOTAL VERIFIED PRODUCTION NOT TO EXCEED THE TOTAL FREE PRODUCTION ALLOWANCE.
- 10 PHELAN PIÑON HILLS CSD'S WELL #14 IS NOT INCLUDED IN THE TOTAL VERIFIED PRODUCTION. THE MATTER OF PUMPING FROM WELL #14, LOCATED IN LA COUNTY, IS STILL UNRESOLVED AND MAY AFFECT FUTURE OBLIGATIONS UNDER THE JUDGMENT.
- 11 CDFW - MOJAVE RIVER FISH HATCHERY IS EXEMPT FROM ASSESSMENTS PURSUANT TO THE PROVISIONS OF EXHIBIT F OF THE JUDGMENT AFTER TRIAL, DATED JANUARY 10, 1996.
- 12 APPELLANTS NOT SUBJECT TO THE JUDGMENT AFTER TRIAL PURSUANT TO SUPREME COURT DECISION DATED AUGUST 21, 2000. THE AGGREGATE BASE ANNUAL PRODUCTION OF THESE PARTIES WAS DETERMINED PRIOR TO TRIAL AND CONSISTS OF 291 ACRE-FEET IN THE ALTO SUBAREA AND 1,187 ACRE-FEET IN THE CENTRO SUBAREA. THE VERIFIED PRODUCTION WAS ESTIMATED BY WATERMASTER FOR 2016-17 AND CONSISTS OF 909 ACRE-FEET IN THE ALTO SUBAREA AND 723 ACRE-FEET IN THE CENTRO SUBAREA.
- 13 THE VERIFIED PRODUCTION SHOWN INCLUDES MWA DELIVERIES THROUGH THE REGIONAL, RECHARGE AND RECOVERY PROJECT. DELIVERIES FOR 2016-17 WATER YEAR INCLUDE 560 ACRE-FEET FOR LIBERTY UTILITIES (APPLE VALLEY RANCHOS WATER) CORP., 1,313 ACRE-FEET FOR VICTORVILLE WATER DISTRICT, ID#1 AND 2,173 ACRE-FEET FOR VICTORVILLE WATER DISTRICT ID#2.
- 14 THE VERIFIED PRODUCTION SHOWN INCLUDES THE OPERATIONAL WATER USED FOR THE REGIONAL, RECHARGE AND RECOVERY PROJECT FROM THE 2012-13 WATER YEAR THROUGH THE CURRENT WATER YEAR.
- 15 THE FPA HAS BEEN ADJUSTED 2 FOR 1 FOR THE CHANGE IN CONSUMPTIVE USE PURSUANT TO EXHIBIT F OF THE JUDGMENT.

## **APPENDIX J**

### **MOJAVE BASIN AREA WATERMASTER**

#### **NOTICE LIST**

# APPENDIX J

MARCH 27, 2019

## MOJAVE BASIN AREA WATERMASTER NOTICE LIST

OWNER	DESIGNEE	OWNER	DESIGNEE
35250 YERMO, LLC	ROBERTO MUNOZ	BROMMER FAMILY TRUST	MARVIN AND CARROLL BROMMER
ABDUL, HARRY AND ANITA	JACKIE MCEVOY	BROWN, BOBBY G. AND VALERIA R.	PAUL JOHNSON
ABSHIRE, DAVID V.	JOHN MCCALLUM	BROWN, JENNIFER	JENNIFER BROWN
ADELANTO, CITY OF	DEBORAH BUCKINGHAM	BROWN, RONALD A.	RONALD A. BROWN
ADES, JOHN AND DEVON	JOHN AND DEVON ADES	BROWN, SUE AND DOUG	SUE AND DOUG BROWN
AEROCHEM, INC.	KENT T. CHRISTENSEN	BRUNEAU, KAREN	KAREN BRUNEAU
AGCON, INC.	LORI CLIFTON	BRYANT, IAN	IAN BRYANT
AHN REVOCABLE LIVING TRUST	CHUN SOO AND WHA JA AHN	BUBIER, DIANE GAIL	
AHN REVOCABLE TRUST	SIMON AHN	BUDGET FINANCE COMPANY	NOAH FURIE
AHN, CHUN SOO AND DAVID	DAVID AHN	BUNNELL, DICK	DICK BUNNELL
AHN, CHUN SOO AND WHA JA	CHUN SOO AHN	BUSH, KEVIN	KEVIN BUSH
AKE, CHARLES J. AND MARJORIE M.	CHARLES J. AND MARJORIE M. AKE	CALICO JUNCTION	HARVEY J. WALKER JR.
AMERICAN STATES WATER COMPANY	ANA CHAVEZ	CALICO LAKES HOMEOWNERS ASSOCIATION	JASON KRATZ
ANDERSON, ROSS C. AND BETTY J.	ROSS C. AND BETTY J. ANDERSON	CALIFORNIA DEPARTMENT OF TRANSPORTATION	MICHAEL P. NAZE
APPLE VALLEY FOOTHILL COUNTY WATER DISTRICT	DANIEL B. SMITH	CALMAT COMPANY	ROBERT W. BOWCOCK
APPLE VALLEY HEIGHTS COUNTY WATER DISTRICT	MATTHEW PATTERSON	CALMAT COMPANY	ROBERT W. BOWCOCK
APPLE VALLEY UNIFIED SCHOOL DISTRICT	MATHEW SCHULENBERG	CALPORTLAND COMPANY - AGRICULTURE	JESSICA GAMMETT
APPLE VALLEY VIEW MUTUAL WATER COMPANY	EMELY AND JOE SALTMERIS	CALPORTLAND COMPANY - ORO GRANDE PLANT	JESSICA GAMMETT
APPLE VALLEY, TOWN OF	TINA KUHN	CAMANGA, TONY AND MARIETTA	TONY CAMANGA
AQUA CAPITAL MANAGEMENT, LP	DAVID L. PENRICE	CAMPBELL, M. A. AND DIANNE	M. A. AND DIANNE CAMPBELL
ARCHIBEK, ERIC	ERIC ARCHIBEK	CARLTON, SUSAN	SUSAN CARLTON
ARGUELLES, ALFREDO	ANGEL ARGUELLES	CASA COLINA FOUNDATION	KEVIN MANGOLD
ATCHISON, TOPEKA, SANTA FE RAILWAY COMPANY	DEAN FORSHEE	CDFW - CAMP CADY	EDDY KONNO
AVILA, ANGEL AND EVALIA	ANGEL AND EVALIA AVILA	CDFW - MOJAVE NARROWS REGIONAL PARK	JARED BEYELER
BAILEY 2007 LIVING REVOCABLE TRUST, SHERÉ R.	SHERÉ R. BAILEY	CDFW - MOJAVE RIVER FISH HATCHERY	FORREST WILLIAMS
BAR H MUTUAL WATER COMPANY	DANIEL SHAW	CEMEX, INC.	ALEJANDRA SILVA
BARBER, JAMES B.	JAMES B. BARBER	CENTER WATER COMPANY	ERIC RIDDLE
BAR-LEN MUTUAL WATER COMPANY	CASEY SLUSSER	CF PROPERTIES, LLC	CARIN MCKAY
BARON, SUSAN AND PALMER, CURTIS	CURTIS PALMER	CHAFAR, LARRY R. AND DELINDA C.	ALLENE ROZELL CHERIE KRACK
BARSTOW COMMUNITY DEVELOPERS, LLC	TEDDI MORAD	CHAMISAL MUTUAL WATER COMPANY	MARY M ROSS
BASS TRUST, NEWTON T.	BARBARA DAVISON	CHEYENNE LAKE, INC.	CARL PUGH
BASTIANON REVOCABLE TRUST	REMO E. BASTIANON	CHOI, YONG IL AND JOUNG AE	YONG IL AND JOUNG AE CHOI
BEEBE, ROBERT W. AND DOROTHY K.	ROBERT W. AND DOROTHY K. BEEBE	CHONG, JOAN	JOAN CHONG
BEINSCHROTH FAMILY TRUST	MIKE BEINSCHROTH	CHRISTISON, JOEL	JOEL CHRISTISON
BELL, CHUCK	CHUCK BELL	CHUNG, ET AL.	HWA-YONG CHUNG
BENDER TRUST, DOLORES M.	DOLORES M. BENDER	CLARK, ARTHUR	ARTHUR CLARK
BEST, BYRON L.	BYRON L. BEST	CLUB VIEW PARTNERS	MANOUCHER SARBAZ
BORGOGNO REVOCABLE LIVING TRUST	ROBERTA BORGOGNO	CONNER, WILLIAM H.	WILLIAM H. CONNER
BORJA, LEONIL T. AND TITAL L.	LEONIL T. AND TITAL L. BORJA	CONTRATTO, ERSULA	ERSULA CONTRATTO
BOX, GEARY S. AND LAURA	GEARY S. AND LAURA BOX	CORBRIDGE, LINDA S.	GEORGE STARKE
BRACHT, WILLIAM F. AND ALEXANDER, ALICIA M.	ALICIA ALEXANDER	CROSS, FRANCIS AND BEVERLY	FRANCIS AND BEVERLY CROSS
BREDELIS, RONALD C. AND JEAN	RONALD C. AND JEAN BREDELIS	CROSS, SHARON I.	SHARON I. CROSS

**APPENDIX J**

MARCH 27, 2019

**MOJAVE BASIN AREA WATERMASTER  
NOTICE LIST**

<b>OWNER</b>	<b>DESIGNEE</b>	<b>OWNER</b>	<b>DESIGNEE</b>
CRYSTAL LAKES PROPERTY OWNERS ASSOCIATION	ALESSIA MORRIS	GENON ENERGY, INC.	ERIC LEUZE
DACOSTA, DEAN EDWARD	DEAN EDWARD DACOSTA	GOLDEN STATE WATER COMPANY	NEREIDA GONZALEZ
DAGGETT COMMUNITY SERVICES DISTRICT	DANIEL LOWE	GORDON ACRES WATER COMPANY	DENISE JOHNSON
DAGGETT RANCH, LLC	STEVE AND DANA RIVETT	GRAY, GEORGE F. AND BETTY E.	GEORGE F. AND BETTY E. GRAY
DAHLQUIST, GEORGE R.	GEORGE R. DAHLQUIST	GREEN ACRES ESTATES	BRIAN E. BOLIN
DARR, JAMES S.	JAMES S. DARR	GRILL, NICHOLAS P. AND MILLIE D.	NICK GRILL
DE JONG FAMILY TRUST	ALAN L. DE JONG	GUBLER, HANS	HANS GUBLER
DE VRIES, NEIL AND MARY FAMILY TRUST	MARY DE VRIES	GULBRANSON, MERLIN	TAMARA J SKOGLUND
DENNISON, QUENTIN D. - CLEGG, FRIZELL AND JOKE	RANDY WAGNER	GUTIERREZ, JOSE AND GLORIA	JOSE AND GLORIA GUTIERREZ
DESERT DAWN MUTUAL WATER COMPANY	MARIE MCDANIEL	HAAS, BRYAN C. AND HINKLE, MARY H.	BRYAN C. HAAS AND MARY H. HINKLE
DESERT SPRINGS MUTUAL WATER COMPANY	DENISE COURTNEY	HACKBARTH, EDWARD E.	EDWARD E. HACKBARTH
DJC CORPORATION	MAGDALENA JONES	HALANNA EQUITIES III	ALEXANDRA LIOANAG
DOCIMO LIVING TRUST, ALLEN LEE	ALLEN LEE DOCIMO	HAL-DOR LTD.	MAGDALENA JONES
DOLCH, ROBERT AND JUDY	LARRY WARREN	HAMILTON FAMILY TRUST	DOUG AND CHERYL HAMILTON
DONALDSON, JERRY AND BEVERLY	JERRY AND BEVERLY DONALDSON	HANDRINOS, NICOLE A.	WILLIAM HANDRINOS
DORA LAND, INC.	JEFFERY LIDMAN	HANIFY, MICHAEL D., DBA - WHITE BEAR RANCH	DONALD F. HANIFY
DORRANCE, DAVID W. AND TAMELA L.	DAVID DORRANCE	HANSON AGGREGATES WRP, INC.	MATT WOOD
DOWELL, LEONARD	LEONARD DOWELL	HARESON, NICHOLAS AND MARY	MARY JANE HARESON
EVENSON, EDWIN H. AND JOYCELAINE C.	EDWIN H. AND JOYCELAINE C. EVENSON	HARMSEN FAMILY TRUST	KENNY HARMSEN
EVERT FAMILY TRUST	STEPHANIE L. EVERT	HARPER LAKE COMPANY VIII	JOSEPH FAUBUS
EYGNOR, ROBERT E.	ROBERT E. EYGNOR	HARTER, JOE AND SUE	JOE AND SUE HARTER
FEDERAL BUREAU OF PRISONS, VICTORVILLE	DAVID DITTENMORE	HARVEY, LISA M.	LISA M. HARVEY
FEDERAL NATIONAL MORTGAGE ASSOCIATION - FANNIE MAE	HEATHER M STERN	HASS, PAULINE L.	PAULINE L. HASS
FEJFAR, MONICA KAY	MONICA KAY FEJFAR	HAWKINS, JAMES B.	JAMES B. HAWKINS
FERNANDEZ, ARTURO	ARTURO FERNANDEZ	HELENDALE COMMUNITY SERVICES DISTRICT	CRAIG CARLSON
FERRO, DENNIS AND NORMA	DENNIS AND NORMA FERRO	HELENDALE COMMUNITY SERVICES DISTRICT	KIMBERLY COX
FIRST CPA LLC	ALEX AND JERRICA LIU	HELENDALE SCHOOL DISTRICT	DEANNA DIBBLE
FISCHER REVOCABLE LIVING TRUST	CARL FISCHER	HENDLEY, RICK AND BARBARA	JIM MARTIN
FISHER TRUST, JEROME R.	PAUL JOHNSON	HENSLEY, MARK P.	MARK P. HENSLEY
FRATES, D. COLE	D. COLE FRATES	HERT, SCOTT	SCOTT HERT
FRAZIER, ET AL.	MARTIN FRAZIER	HESPERIA - GOLF COURSE, CITY OF	JEREMY MCDONALD
FRIEND, JOSEPH AND DEBORAH	DEBORAH A. FRIEND	HESPERIA VENTURE I, LLC	JANIE MARTINEZ
FUNDAMENTAL CHRISTIAN ENDEAVORS, INC.	MARK ASAY	HESPERIA WATER DISTRICT	JEREMY MCDONALD
GABRYCH, EUGENE	EUGENE GABRYCH	HESPERIA, CITY OF	JEREMY MCDONALD
GABRYCH, EUGENE	MITCH HAMMACK	HETTINGA REVOCABLE TRUST	PATRICIA MOHR
GAETA, MIGUEL AND MARIA	MIGUEL AND MARIA GAETA	HI DESERT MUTUAL WATER COMPANY	ED KNAUFF
GAETA, TRINIDAD	JAY STORER	HIETT, HARRY L.	HARRY L. HIETT
GAINES FAMILY TRUST, JACK AND MARY	BRUCE GAINES	HIGH DESERT ASSOCIATES, INC.	ROBERT W. BOWCOCK
GARCIA, DANIEL	DANIEL GARCIA	HI-GRADE MATERIALS COMPANY	LORI CLIFTON
GARDENA MISSION CHURCH, INC.	SANG HWAL KIM	HI-GRADE MATERIALS COMPANY	LORI CLIFTON
GARG, OM P.	OM P. GARG	HILARIDES 1998 REVOCABLE FAMILY TRUST	FRANK HILARIDES
GAYJIKIAN, SAMUEL AND HAZEL	BRENT PETERSON	HILL FAMILY TRUST AND HILL'S RANCH, INC.	KATHERINE HILL

# APPENDIX J

MARCH 27, 2019

## MOJAVE BASIN AREA WATERMASTER NOTICE LIST

OWNER	DESIGNEE	OWNER	DESIGNEE
HITCHIN LUCERNE, INC.	MARY THOMAS	KIM, SEON JA	SEON JA KIM
HO, TING-SENG AND AH-GIT	TING-SENG AND AH-GIT HO	KOEGLER, RONALD R. AND CAROLYN V.	RONALD R. AND CAROLYN V. KOEGLER
HOLLISTER, ROBERT H. AND RUTH M.	JOAN ROHRER	KOERING, RICHARD AND KOERING, DONNA	RICHARD KOERING AND DONNA
HOLWAY JEFFREY R AND PATRICIA GAGE	JEFFREY R HOLWAY AND PATRICIA GAGE	KOROGHLIAN, TED AND NAJWA	TED AND NAJWA KOROGHLIAN
HOLWAY, JEFFREY R	JEFFREY R HOLWAY	KOSHAREK, JOHN AND JOANN	JOHN AND JOANN KOSHAREK
HONG, PAUL B. AND MAY	PAUL HONG	LAGUNA WATER II, LTD.	BRUCE H.C. HILL
HOOD FAMILY TRUST	SANDRA D. HOOD	LAKE ARROWHEAD COMMUNITY SERVICES DISTRICT	CATHERINE CERRI
HORTON, JOHN	GRETCHEN HORTON	LAKE JODIE PROPERTY OWNERS ASSOCIATION	DANIEL LINDENMAN
HORTON'S CHILDREN'S TRUST	GRETCHEN HORTON	LAKE WAIKIKI	NANCY LAN
HOWARD, ET AL.	NORMAN A. HOWARD	LAKE WAINANI OWNERS ASSOCIATION	RON BASBAS
HUBBARD, ESTER AND MIZUNO, ARLEAN	ESTER HUBBARD	LAM, PHILLIP	PHILLIP LAM
HUERTA, HECTOR	JOHN DRISCOLL	LANGLEY, JAMES	JAMES LANGLEY
HUNT, CONNIE	CONNIE HUNT	LANGLEY, JAMES - INDUSTRIAL	JAMES LANGLEY
HUNT, RALPH M. AND LILLIAN F.	RALPH HUNT	LANGLEY, MICHAEL R. AND SHARON	MICHAEL R. AND SHARON LANGLEY
HYATT, JAMES AND BRENDA	DANIEL AND KAREN GRAY	LAVANH, ET AL.	VANESSA LAOSY
IM, NICHOLAS NAK-KYUN	STEVE KIM	LAWRENCE, WILLIAM W.	ROBERT LAWRENCE JR.
IRVIN, BERTRAND W.	BERTRAND W. IRVIN	LAWSON, ERNEST AND BARBARA	ERNEST AND BARBARA LAWSON
ITALMOOD INC., ET. AL.	SEBASTIAN MARZARO	LEE, ANNA K. AND ESHBAN K.	ANNA K. LEE
JACKS, JAMES F.	JAMES F. JACKS	LEE, DOO HWAN	DOO HWAN LEE
JACKSON, JAMES N. JR REVOCABLE LIVING TRUST	JAMES JACKSON JR.	LEE, ET AL., SEPOONG AND WOO POONG	SEPOONG & WOO POONG LEE
JACKSON, RAY REVOCABLE TRUST NO. 45801	LAWRENCE DEAN	LEE, VIN JANG T.	ERIC ARCHIBEK
JAMBOREE HOUSING CORPORATION	LINDA RAINER	LEM, HOY	VIRGINIA JANOVSKY
JESS RANCH WATER COMPANY	GARY A. LEDFORD	LENHERT, RONALD AND TONI	RONALD AND TONI LENHERT
JOHNSON, CARLEAN	CARLEAN JOHNSON	LHC ALLIGATOR, LLC	BRAD FRANCKE
JOHNSON, JAMES R. AND ELLEN	JAMES R. AND ELLEN JOHNSON	LIANG, YUAN - I AND TZU - MEI CHEN	BILLY LIANG
JOHNSON, RONALD	RONALD JOHNSON	LIBERTY UTILITIES (APPLE VALLEY RANCHOS WATER) CORP.	ERIC LARSEN
JOHNSTON, HARRIET AND JOHNSTON, LAWRENCE W.	LAWRENCE W. JOHNSTON	LIBERTY UTILITIES (APPLE VALLEY RANCHOS WATER) CORP.	ERIC LARSEN
JONES, JOETTE	JOETTE JONES	LIN, KUAN JUNG AND CHUNG, DER-BING	JAMES LIN
JORDAN FAMILY TRUST	PAUL JORDAN	LO, ET AL.	MEI LI
JUBILEE MUTUAL WATER COMPANY	RAY GAGNE	LOPEZ, BALTAZAR	PATRICIA MIRANDA
JUNIPER RIVIERA COUNTY WATER DISTRICT	DENISE JOHNSON	LOW, DEAN	DEAN LOW
KANESAKA, KENJI AND YUKARI	KENJI AND YUKARI KANESAKA	LUA, MICHAEL T. AND DONNA S.	MICHAEL T. AND DONNA S. LUA
KARIMI, HOOSHANG	ASH KARIMI	LUCERNE VALLEY MUTUAL WATER COMPANY	GWEN L. BEDICS
KASNER FAMILY LIMITED PARTNERSHIP	ROBERT R. KASNER	LUCERNE VALLEY PARTNERS	MANOUCHER SARBAZ
KASNER FAMILY LIMITED PARTNERSHIP	ROBERT R. KASNER	LUCERNE VISTA MUTUAL WATER COMPANY	MARIAN VALENT
KASNER, ROBERT	ROBERT KASNER	LUCKEY 2010 REVOCABLE TRUST	CAROLYN LUCKY
KATCHER, AUGUST M. AND MARCELINE	AUGUST M. AND MARCELINE KATCHER	M BIRD CONSTRUCTION	EUGENE R. & VICKIE R. BIRD
KEMP, ROBERT AND ROSE	ROBERT AND ROSE KEMP	M.B. LANDSCAPING AND NURSERY, INC.	MARIA MARTINEZ
KEMPER CAMPBELL RANCH	PEGGY SHAUGHNESSY	MAHJOUBI, AFSAR S.	ROBERT SAIDI
KIM, JIN S. AND HYUN H.	JIN S. AND HYUN H. KIM	MALONEY, JANICE	JANICE MALONEY
KIM, JOON HO AND MAL BOON REVOCABLE TRUST	ALAN AND ANNETTE DE JONG	MANNING, SHARON S.	JIMMY BERRY
KIM, JU SANG	JU SANG KIM	MARCROFT, JAMES A. AND JOAN	ALLEN MARCROFT



**APPENDIX J**

MARCH 27, 2019

**MOJAVE BASIN AREA WATERMASTER  
NOTICE LIST**

<b>OWNER</b>	<b>DESIGNEE</b>	<b>OWNER</b>	<b>DESIGNEE</b>
MARIANA RANCHOS COUNTY WATER DISTRICT	JAMES M. HANSEN, JR.	PHELAN PIÑON HILLS COMMUNITY SERVICES DISTRICT	SEAN WRIGHT
MARSHALL, CHARLES	CHARLES MARSHALL	PITTMAN, LEROY W.	DIANA PITTMAN
MARTIN, MICHAEL D. AND ARLENE D.	MICHAEL D. AND ARLENE D. MARTIN	POLAND, JOHN R. AND KATHLEEN A.	JOHN POLAND
MCCOLLUM, CHARLES L.	ROD SEXTON	POLICH, DONNA	DONNA POLICH
MCINNIS, WILLIAM S.	WILLIAM S. MCINNIS	PORTER, TIMOTHY M.	TIMOTHY M. PORTER
MCKINNEY, PAULA	PAULA MCKINNEY	POZZATO PARTNERS, LIMITED	ALLEN YADGARI
MEAD FAMILY TRUST	OLIVIA L. MEAD	PRICE, DONALD AND RUTH	DONALD AND RUTH PRICE
MILBRAT, IRVING H.	DAVID I. MILBRAT	PRUETT, ANDREA	ANDREA PRUETT
MILLER LIVING TRUST	DONNA MILLER	QUAKENBUSH, SAMUEL R.	SAMUEL R. QUAKENBUSH
MITSUBISHI CEMENT CORPORATION	DAVID RIB	QUIROS, FRANSISCO J. AND HERRMANN, RONALD	RON HERRMANN
MIZRAHIE, ET AL.	PHILIP MIZRAHIE	RANCHERITOS MUTUAL WATER COMPANY	ELIZABETH MURENA
MLH, LLC	THOMAS A. HRUBIK	REED, MIKE	MIKE REED
MOJAVE SOLAR, LLC	JOSE MANUEL BRAVO	RHEE, ANDREW N.	ANDREW N. RHEE
MOJAVE WATER AGENCY	DOUG KERNS	RICE, HENRY C. AND DIANA	KELLY RICE
MONACO INVESTMENT COMPANY	MANOUCHER SARBAZ	RIM PROPERTIES, A GENERAL PARTNERSHIP	IAN BRYANT
MORRIS TRUST, JULIA V.	BILLIE ELLIOT	RIOS, MARIANO V.	JOSIE RIOS
MOSS, LAWRENCE W. AND HELEN J.	LAWRENCE W. AND HELEN J. MOSS	RIVERO, FIDEL V.	FIDEL V. RIVERO
MOST FAMILY TRUST	JENNIE MOST	RIZVI, S.R ALI	S.R ALI RIZVI
MULLIGAN, ROBERT AND INEZ	DENNIS HILLS	ROBERTSON'S READY MIX	JACKIE MCEVOY
MURPHY, JEAN	JEAN MURPHY	ROSSI, JAMES L. AND NAOMI I.	MITCH HAMMACK
NAVAJO MUTUAL WATER COMPANY	JAMES HANSEN	ROYAL WAY	JOHN D. ZEMANEK
NEW SPRINGS LIMITED PARTNERSHIP	BILLY LIANG	RUE RANCH	SAM MARICH
NEWBERRY COMMUNITY SERVICES DISTRICT	LE HAYES	RUISCH TRUST, DALE W. AND NELLIE H.	DALE W. RUISCH
NEWBERRY SPRINGS RECREATIONAL LAKES ASSOCIATION	JEFF GAASTRA	S AND B BROTHERS, LLC	SHERWIN SHORAKA
NORRIS TRUST, MARY ANN	MARY ANN NORRIS	S AND E 786 ENTERPRISES, LLC	JAFAR RASHID
NUÑEZ, LUIS SEGUNDO	LUIS SEGUNDO NUÑEZ	SABA, SABA A. AND SHIRLEY L.	SABA A. AND SHIRLEY L. SABA
NUNN FAMILY TRUST	PEARL OR GAIL NUNN	SAGABEAN-BARKER, KANOELOKELANI L.	KANOE BARKER
O. F. D. L., INC.	JEFF GAASTRA	SAMRA, JAGTAR S.	JAGTAR S. SAMRA
OASIS WORLD MISSION	CHUN SOO AHN	SAN BERNARDINO CO BARSTOW - DAGGETT AIRPORT	TINA ABARCA
ODESSA WATER DISTRICT	CURT MITCHELL	SAN BERNARDINO COUNTY - HIGH DESERT DETENTION CENTER	JARED BEYELER
OHAI, REYNOLDS AND DOROTHY	DOROTHY OHAI	SAN BERNARDINO COUNTY SERVICE AREA 29	REESE TROUBLEFIELD
OMYA CALIFORNIA, INC.	DIEGO TERAN	SAN BERNARDINO COUNTY SERVICE AREA 42	JARED BEYELER
ORO GRANDE SCHOOL DISTRICT	NICK HIGGS	SAN BERNARDINO COUNTY SERVICE AREA 64	JARED BEYELER
P AND H ENGINEERING AND DEVELOPMENT CORPORATION	M. T. SHORAKA	SAN BERNARDINO COUNTY SERVICE AREA 70J	JARED BEYELER
PACIFIC GAS AND ELECTRIC COMPANY	IAIN BAKER	SAPP, ROBERT D. AND LEE, TERESA J.	ROBERT AND TERESA SAPP
PAK, KAE SOO AND MYONG HUI KANG	KAE SOO AND MYONG HUI KANG PAK	SCRAY, MICHELLE A. TRUST	MICHELLE SCRAY
PATINO, JOSÉ	JOSÉ PATINO	SERVICE ROCK PRODUCTS CORPORATION	JACKIE MCEVOY
PEARCE, CRAIG L.	CRAIG L. PEARCE	SEXTON, RODNEY A. AND SEXTON, DEREK R.	ROD SEXTON
PERKO, BERT K.	BERT K. PERKO	SHAW, ROBERT M. AND LORI A. SLATER-SHAW	ROBERT M. SHAW
PERRY REVOCABLE LIVING TRUST, THOMAS AND PATRICIA	THOMAS PERRY	SHEEP CREEK WATER COMPANY	CHRIS CUMMINGS
PETTIGREW, DAN	DAN PETTIGREW	SHENG, JEN	JEN SHENG
PETTIGREW, JAMES AND CHERLYN	JAMES PETTIGREW	SHEPPARD, THOMAS AND GLORIA	THOMAS AND GLORIA SHEPPARD

**APPENDIX J**

MARCH 27, 2019

**MOJAVE BASIN AREA WATERMASTER  
NOTICE LIST**

<b>OWNER</b>	<b>DESIGNEE</b>	<b>OWNER</b>	<b>DESIGNEE</b>
SHORT, JEROME E.	JEROME E. SHORT	VAN DAM FAMILY TRUST, GLEN AND JENNIFER	GLEN AND JENNIFER VAN DAM
SILVER LAKES ASSOCIATION	WESTLY CAMPBELL	VAN DAM REVOCABLE TRUST, E AND S	ELBERT AND SUSAN VAN DAM
SINGH, ET AL.	NEPAL SINGH	VAN LEEUWEN, JOHN	JOHN VAN LEEUWEN
SMITH, DENISE DBA AMEREQUINE BEAUTY, INC	DENISE SMITH	VANDER DUSSEN TRUST, AGNES AND EDWARD	AGNES VANDER DUSSEN
SMITH, PORTER AND ANITA	PORTER AND ANITA SMITH	VANHOOPS HOLDINGS, LP	TRACI HOOPS
SNOWBALL DEVELOPMENT, INC.	STEVE KIM	VERNOLA TRUST, PAT AND MARY ANN	JOHN DRISCOLL
SON'S RANCH	CHAN KYUN SON	VICTOR VALLEY COMMUNITY COLLEGE DISTRICT	STEPHEN GARCIA
SOPPELAND REVOCABLE TRUST	JASON LAMOREAUX	VICTOR VALLEY MEMORIAL PARK	DEIDRA HITT
SOUTHERN CALIFORNIA EDISON COMPANY	ERIKA CLEMENT	VICTORVILLE WATER DISTRICT, ID#1	STEVE ASHTON
SOUTHERN CALIFORNIA GAS COMPANY	SCOTT BREWER	VICTORVILLE WATER DISTRICT, ID#2	STEVE ASHTON
SPECIALTY MINERALS, INC.	ROBB GRAVES	VOGLER, ALBERT H.	ALBERT H. VOGLER
SPERRY, WESLEY	WESLEY SPERRY	WAGNER LIVING TRUST	JOAN WAGNER
SPILLMAN, JAMES R. AND NANCY J.	JAMES R. AND NANCY J. SPILLMAN	WAKULA FAMILY TRUST	CHRISTIAN JOSEPH WAKULA
SPRING VALLEY LAKE ASSOCIATION	DENNIS TEECE	WANG, STEVEN	STEVEN WANG
SPRING VALLEY LAKE COUNTRY CLUB	MITCHELL BROWN	WARD, KEN AND BARBARA	BARBARA ALLARD-WARD
ST. ANTONY COPTIC ORTHODOX MONASTERY	FATHER JOSEPH	WARD, RAYMOND	RAYMOND WARD
STARKE, GEORGE A. AND JAYNE E.	GEORGE A. AND JAYNE E. STARKE	WEEMS, LIZZIE	LIZZIE WEEMS
STORM, RANDALL	RANDALL STORM	WEERARINGHE, MAITHRI N.	MAITHRI N. WEERARINGHE
SUDMEIER, GLENN W.	GLENN W. SUDMEIER	WEISER, ET AL.	ALEXANDER WEISER
SUMMIT VALLEY RANCH, LLC	ALEXANDRA LIOANAG	WERNER, ANDREW J.	ANDREW J. WERNER
SUNDOWN LAKES, INC.	MARK RICHARDSON	WEST END MUTUAL WATER COMPANY	JAMES WOODY
SUNRAY LAND COMPANY, LLC	MIKE ARENT	WEST, HOWARD AND SUZY	HOWARD AND SUZY WEST
SYNAGROW-WWT, INC. (DBA NURSURY PRODUCTS, LLC)	LAYNE BAROLDI	WEST, JIMMIE E.	JIMMIE E. WEST
SZYKOWSKI, RUTH J.	RUSSELL SZYKOWSKI	WESTERN DEVELOPMENT AND STORAGE, LLC	ANDREW WERNER
TALLAKSON FAMILY REVOCABLE TRUST	BILL AND ELIZABETH TALLAKSON	WESTERN HORIZON ASSOCIATES, INC.	CHUNG CHO GONG
TAPIE, RAYMOND L.	RAYMOND L. TAPIO	WESTERN RIVERS CONSERVANCY	PETER COLBY
TEISAN, JERRY	JERRY TEISAN	WESTERN WATER COMPANY	WILMA SILVERIA
THAYER, SHARON	SHARON THAYER	WESTLAND INDUSTRIES, INC.	ROBERTO RIVERA
THE CUSHENBURY TRUST, C/O SPECIALTY MINERALS, INC.	ROBB GRAVES	WET SET, INC.	THOMAS G. FERRUZZO
THOMAS, STEPHEN AND LORI	STEPHEN THOMAS	WIENER, MELVIN AND MARIAM S.	MELVIN AND MARIAM S. WIENER
THOMPSON LIVING TRUST, JAMES A. AND SULA B.	LYNNETTE L. THOMPSON	WILSHIRE ROAD PARTNERS	MANOUCHER SARBAZ
THOMPSON LIVING TRUST, R.L. AND R.A.	RODGER THOMPSON	WITHEY, CONNIE	CONNIE TAPIO
THRASHER, GARY	GARY THRASHER	WITTE, E. DANIEL AND MARCIA	E. DANIEL AND MARCIA WITTE
THUNDERBIRD COUNTY WATER DISTRICT	ROY SHULL	WLSR, INC.	MARK J. CLUFF
TRANSAMERICA FIN'L SVC - SPEARS, LARRY B. AND ERLINDA		WOOD, MICHAEL AND DENISE	MICHAEL AND DENISE WOOD
TRIPLE H PARTNERSHIP	JIM HOOVER	WORSEY, JOSEPH A. AND REVAE	DAVID A. WORSEY
TROEGER FAMILY TRUST, RICHARD H.	MIKE TROEGER	WYATT FAMILY TRUST	DEBBY WYATT
TURNER, TERRY	TERRY TURNER		
UNION PACIFIC RAILROAD COMPANY	AURELIO IBARRA		
VACA, ANDY AND TERESITA S.	ANDY AND TERESITA S. VACA		
VALENTI, VITO	VITO VALENTI		
VAN BASTELAAR, ALPHONSE	DEAN VAN BASTELAAR		

## **APPENDIX K**

### **PERMANENT TRANSFERS OF BASE ANNUAL PRODUCTION RIGHT**

**2017-18 WATER YEAR**

APPENDIX K

MARCH 27, 2019

PERMANENT TRANSFERS OF BASE ANNUAL PRODUCTION RIGHT  
WATER YEAR 2017-18  
(ALL AMOUNTS IN ACRE-FEET)

SUBAREA	TRANSFEROR	TRANSACTION						STATUS OF RIGHTS AFTER PERMANENT TRANSFER			
		VERIFIED BASE ANNUAL PRODUCTION	CURRENT BASE ANNUAL PRODUCTION RIGHT (PERCENT)	DATE PROCESSED BY WATERMASTER	TYPE OF TRANSACTION	TRANSFER AMOUNT	TRANSFeree	TRANSFeree		TRANSFEROR	
								VERIFIED BASE ANNUAL PRODUCTION	BASE ANNUAL PRODUCTION RIGHT (PERCENT)	VERIFIED BASE ANNUAL PRODUCTION	BASE ANNUAL PRODUCTION RIGHT (PERCENT)
ALTO	AQUA CAPITAL MANAGEMENT, LP-AGRICULTURE	1,077	0.9252	10/25/2017	SALE	200	LAGUNA WATER II, LTD.	200	0.1718	877	0.7534
OESTE	DOSSEY, D. A.	7	0.0987	02/28/2018	SALE	7	HETTINGA, HEIN AND ELLEN	1,256	17.7026	0	0.0000
ALTO	PEARSON, DERYL B.	22	0.0189	03/28/2018	SALE	22	BOX, GEARY S. AND LAURA	22	0.0189	0	0.0000
BAJA	WESTERN HERITAGE, INC.	854	1.2909	03/28/2018	SALE	854	HAWKINS, JAMES B.	854	1.2909	0	0.0000
BAJA	TSUI, RICHARD	472	0.7135	05/23/2018	SALE	472	NEWBERRY SPRINGS RECREATIONAL LAKES ASSOCIATION	473	0.7051	0	0.0000
BAJA	NEWBERRY SPRINGS RECREATIONAL LAKES ASSOCIATION	473	0.7150	05/23/2018	SALE	78	CHEYENNE LAKE, INC.	522	0.7890	395	0.5971
BAJA	NEWBERRY SPRINGS RECREATIONAL LAKES ASSOCIATION	395	0.5971	05/23/2018	SALE	78	LAKE WAINANI OWNERS ASSOCIATION	938	1.4178	317	0.4792
BAJA	NEWBERRY SPRINGS RECREATIONAL LAKES ASSOCIATION	317	0.4792	05/23/2018	SALE	78	O. F. D. L., INC.	300	0.4535	239	0.3613
BAJA	NEWBERRY SPRINGS RECREATIONAL LAKES ASSOCIATION	239	0.3613	05/23/2018	SALE	78	SUNDOWN LAKES, INC.	420	0.6349	161	0.2434
BAJA	NEWBERRY SPRINGS RECREATIONAL LAKES ASSOCIATION	161	0.2434	05/23/2018	SALE	78	WET SET, INC.	404	0.6107	83	0.1255
BAJA	NEWBERRY SPRINGS RECREATIONAL LAKES ASSOCIATION	83	0.1255	05/23/2018	SALE	78	WLSR, INC.	328	0.4958	5	0.0076
ALTO	CUNNINGHAM, JERRY	10	0.0086	07/25/2018	SALE	10	HESPERIA WATER DISTRICT	13,914	11.9524	0	0.0000
BAJA	SHORT, CHARLES H. REVOCABLE TRUST	54	0.0816	07/25/2018	SALE	54	BUBIER, DIANE GAIL	54	0.0816	0	0.0000
ALTO	AQUA CAPITAL MANAGEMENT, LP-AGRICULTURE	877	0.7534	09/26/2018	SALE	805	ADELANTO, CITY OF	5,171	4.4420	72	0.0618
BAJA	SMITH, WILLIAM E. AND PATRICIA A.	19	0.0287	09/26/2018	SALE	19	QUAKENBUSH, SAMUEL R.	19	0.0287	0	0.0000
BAJA	SPERRY, WESLEY	104	0.1572	09/26/2018	SALE	100	EVERT FAMILY TRUST	173	0.2615	4	0.0060
ALTO	THOMPSON LIVING TRUST, R.L. AND R.A.	13	0.0112	09/26/2018	SALE	11	ADELANTO, CITY OF	5,182	4.4514	2	0.0017