



BUILDING A SUSTAINABLE WATER SUPPLY TO HELP OUR COMMUNITY THRIVE

**SPECIAL MEETING OF THE BOARD OF DIRECTORS
ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT**

849 ALLEN ROAD, BAKERSFIELD, CA 93314

AGENDA

**September 26, 2023
8:00 a.m.**

1. CALL TO ORDER / ROLL CALL

2. APPROVAL OF MINUTES *NO REPORT*

3. FINANCIAL REPORT

- a) Review of Proposed Water Charge Policies (TT)
- b) Presentation of Water Charge Study (AECOM)
- c) *Consideration of Resolution No. 535 – Proposed Water Charge – Procedures for A Majority Protest Hearing – Setting Date and Time of Public Hearing (DNR)*

4. OPERATIONS AND MAINTENANCE REPORT

- a) District Groundwater Levels (MN)

5. WATER RESOURCES REPORT

- a) 3RD Party Recharge and Storage Program (TT)

6. MANAGER'S REPORT *NO REPORT*

7. ENGINEER'S REPORT

- a) Onyx Ranch Project
 - i. Operations (DB)
 - ii. FEMA Disaster Relief Application (RE)

8. COMMITTEE/SPECIAL PROJECT ACTIVITIES

- a) Groundwater Banking Joint Powers Authority (DB & TT)
- b) Sustainable Groundwater Management Act (DB & TT)
 - i. GSA Formation and Withdrawal from KGA (DB)
 - ii. GSP Deficiency Resolution (DB & TT)

9. ATTORNEY'S REPORT

10. OLD OR NEW BUSINESS

11. CORRESPONDENCE

12. PUBLIC COMMENT

13. CLOSED SESSION

- a) Conference with legal counsel – Anticipated Litigation: Significant Exposure to Litigation – *Government Code Section 54956.9(d)(2)*: One (1) Matter
- b) Conference with legal counsel – Anticipated Litigation: Initiation of Litigation – *Government Code Section 54956.9(d)(4)*: One (1) Matter
- c) Conference with legal counsel – Pending Litigation – *Government Code Section 54956.9 (d)(1)*:
 - i. State Water Resources Control Board – Applications to Appropriate Kern River Water
 - ii. City of Bakersfield v. Rosedale-Rio Bravo Water Storage District (McAllister CEQA)
 - iii. Department of Water Resources v. All Persons Interested (Validation Action)
 - iv. Rosedale-Rio Bravo Water Storage District, et al. vs. Kern County Water Agency, et al. (CVC Litigation)
 - v. Buena Vista Water Storage District, et al. v. Rosedale-Rio Bravo Water Storage District (Three Separate Suits) (Onyx Ranch CEQA Litigation)
 - vi. Rosedale-Rio Bravo Water Storage District v. Buena Vista Water Storage District, et al. (Onyx Ranch Declaratory Relief Litigation)
 - vii. Bring Back the Kern, et al v. Rosedale-Rio Bravo Water Storage District, et al. (Kern River Public Trust Litigation)

14. ADJOURNMENT

DECLARATION OF POSTING: I, Rachele Echeverria, declare under penalty of perjury, that I am employed by the Rosedale-Rio Bravo Water Storage District and I posted the foregoing Agenda at the District Office and on the District's website (www.rrbwsd.com) on or before September 25, 2023. ***Requests for disability related modifications or accommodations, including auxiliary aids or services may be made by telephoning or contacting Megan Misuraca at mmisuraca@rrbwsd.com. Please attempt to make such requests known at least 24 hours before the scheduled meeting.***

TO: Rosedale-Rio Bravo Water Storage District Board of Directors
Agenda Item 3.a.

FROM: Trent Taylor

DATE: September 26, 2023

RE: Draft Board Policies for Water Charge Implementation for Water Year 2024

BACKGROUND

This memo describes various policies governing the terms and conditions under which the District could implement a proposed “Water Charge” for water usage above the amount of water that the District’s Conjunctive Use Project (Project Water) generates on a per acre basis. All lands within the District have access to Project Water; however, certain landowners utilize more than the available Project Water supplies (i.e. overdraft). In an effort to prevent groundwater overdraft and provide all landowners with a sustainable groundwater supply, and to meet the requirements of the Sustainable Groundwater Management Act, the District identified a Water Charge as a management action in the Rosedale-Rio Bravo Water Storage District Groundwater Sustainability Agency (RRBWSD GSA) Groundwater Sustainability Plan (GSP). The Water Charge is intended to provide funding for projects, operations, and other management actions identified in the RRBWSD GSA GSP that are intended to minimize (or eliminate) overdraft. It is also expected that a Water Charge will result in reduced demand. The Water Charge will be considered for adoption in late 2023 and may be implemented beginning January 1, 2024.

WATER CHARGE POLICIES

DEFINITIONS

- Farming Unit – A group of APN’s within RRBWSD that are zoned/used for agricultural purposes and are grouped together by a landowner (by ownership or contract) for the benefit of combining the water supply (Project Water and Native Yield) for Water Charge purposes within the District water budget accounting platform.
- Demand – The amount of consumptive-use (total evapotranspiration) from a Farming Unit as calculated by the District’s technical services provider, currently LandIQ. No manual adjustments by staff will be made. Demand on lands used for Landowner Banking Programs will not be included.
- Precipitation – Precipitation is based upon the prior year’s precipitation (currently calculated at .42 acre-feet based upon average of 2005 – 2015 precipitation). This amount

will fluctuate annually based upon actual precipitation. Precipitation will not be transferable to other lands and will only apply to the land(s) on which it fell.

- Native Yield – The amount of “native” groundwater available to a landowner for overlying use within a Farming Unit. Rosedale’s initial estimate of Native Yield is 0.15 AF/Acre and may be revised in the future as studies are completed; coordination with other GSA’s in the basin on the development/refinement of native yield is expected.
- Project Water – The amount of available surface water supplies that have been recharged by Rosedale into the groundwater basin for the benefit of its landowners. The amount is determined by taking the average annual net recharge attributable to the Rosedale Project, less 3rd party obligations, over a running 20-year period. Project Water is allocated proportional to acreage within Rosedale. Project Water must be utilized within the calendar year it is allocated and will not be carried over to future years.
- Stored Water - The amount of water supplies that have been accounted to Rosedale within the groundwater basin for the benefit of specific landowner(s) by agreement with Rosedale. Stored Water is generally either landowner supplies that were recharged in District facilities or District supplies that were recharged in landowner facilities.
- Water Charge Acreage Size – The Water Charge will apply to agricultural parcels 9.5 acres or greater in size and those parcels less than 9.5 acres but larger than 4.7 acres (nominal 5-acre parcels) when located adjacent to other parcels owned/controlled by the same landowner and/or collectively developed to irrigated agricultural use.
- Water Charge Quantity – The amount of consumptive-use above the allowable water supply (Precipitation, Native Yield, Project Water, and Stored Water) that will be subject to the Water Charge Rate.
- Water Charge Rate – The rate adopted by the Rosedale Board of Directors each year is developed by calculating the projected expenses applicable to the Water Charge divided by the projected annual demand subject to the estimated Water Charge Quantity. The maximum rate will be set through a rate study and protest hearing.

FARMING UNITS

Annually, the District will initially group APN’s into a Farming Unit within the District water budget accounting platform by name for all parcels that are listed as owned under the same exact name as determined by the Kern County Assessor’s tax roll. APN’s may be added to a Farming Unit for the benefit of combining the water supply (Project Water, Stored Water, and Native Yield) with notice to Rosedale. APN’s to be added should be submitted by November 30 for the upcoming calendar year for ease of administration. Changes will be allowed throughout the year and up until March 15 of the following calendar year. Both landowners must submit written notification to Rosedale regarding any Farming Unit changes.

WATER CHARGE CALCULATION

Water Charge Quantity will be determined utilizing the following calculation:

Water Charge Quantity =

Demand (Consumptive Use) – Precipitation – Native Yield – Project Water – Stored Water*

*The amount of stored water used in a particular year will be subject to the discretion of the landowner in accordance with the landowner's agreement with the District.

Water Charge Rate =

Water Charge Quantity x Water Charge Rate

WATER MARKET AND TRANSFERS

The District will provide the Final Water Charge Quantities for the calendar year (January 1 through December 31) on or around February 15th of the following year. By no later than March 15th, each Farming Unit may transfer APN's or Project Water for the applicable water year to and from other Farming Units with written notice to the District. The District will need to receive written verification of each transaction, including signatures/acknowledgements from both Farming Units, prior to March 15th.

The District will move the Project Water between Farming Unit accounts and prepare Water Charge Quantity Invoices, which will be sent to all applicable Farming Units by April 15.

Project Water may only be utilized within the calendar year it is provided and may not be transferred or carried over for future year use. Project Water may only be transferred within District boundaries and will not be allowed to be transferred to undistricted lands (i.e., "White Lands") or to any other property outside of District boundaries.

Stored Water may only be transferred consistent with the conditions of the applicable Board policy terms and/or agreements with the District.

WATER BUDGET ACCOUNTING PLATFORM

The District water budget accounting platform provides all landowners and/or Farming Units with access to their water supply and total demand. Consumptive use demand metrics are uploaded to the platform monthly and reflect the preceding month's demand data. By way of example, May demand will be uploaded by the end of June.

Landowners and Farming Units can track all APN and supply changes through this system as they happen and when they occur. The District will send alerts/statements to Farming Units periodically

to the email addresses associated with each individual account. Landowners may contact the District at any time with questions or to request changes to the accounting platform accounts.

PAYMENT TERMS

On approximately May 15, Water Charge invoices will be due following the previous Water Charge calendar year. Delinquent invoices will be assessed a 10% penalty and bear interest at 12% a year. At each June Board Meeting, the Board will consider delinquencies (if any) and choose one of the following actions:

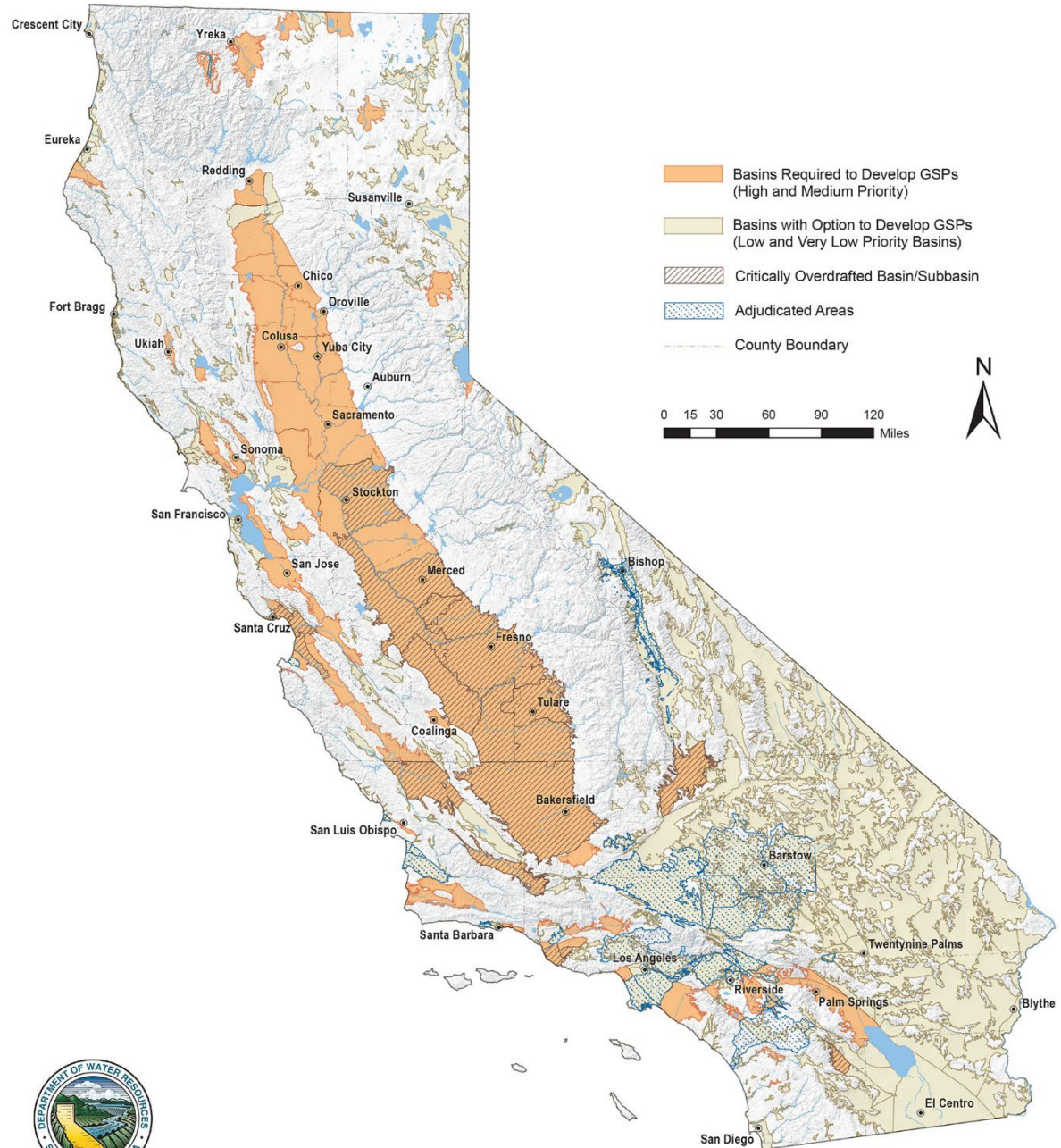
1. Record a list of delinquencies, which will become a lien on the listed APN's; or
2. Bring suit against the delinquent landowner(s) to collect.

APPEAL PROCESS

Following issuance of the Water Charge invoices in April, a Farming Unit will have 30 days to submit a written protest. Staff will review the protest and information provided and other gathered information and make a recommendation to the Board at a public Board meeting; the landowner will be provided the opportunity to present relevant facts to the Board. The District Board will review and consider all data, evidence and Staff recommendations and make a final decision regarding the protest. Following the Board's recommendation and final decision, landowner will have a period of 30 days to submit final payment or be subject to the delinquency assessment for unpaid Water Charge invoices.

Need for Water Charge

- Driven by Sustainable Groundwater Management Act (SGMA) requirements
- Hydrology and regulatory conditions have resulted in reductions in water supply availability
- Water Charge would fund projects to increase supply or reduce demands to achieve sustainable groundwater conditions



Water Charge Methodology

- Establish in Proportion to Benefits Received
- Implement on a Per Acre-Foot basis to parcels using more than Historically Available Water Supplies
- Urban development generally uses less than Historically Available Water Supplies and is not subject to Water Charge

Estimated Historically Available Water Supplies = 2.12 AF/acre

- Native Yield – 0.15 AF/acre
(portion of unallocated groundwater recharge per GSP)
- Precipitation – 0.42 AF/acre
(based on average of 5.04 inches/year)
- Project Water – 1.55 AF/Acre
(based on average from 2002-2021)

Parcels Subject to Water Charge

- Parcels in Agricultural Use and 9.5 Acres or Larger
- Parcels in Agricultural Use less than 9.5 Acres but larger than 4.7 Acres (nominal 5 Acre Parcels) when located adjacent to other parcels owned/controlled by the same landowner and/or collectively developed in agricultural use.

Rationale:

For 540 parcels in agricultural use and less than 9.5 acres:

- 67 out of 540 parcels used more than Historically Available Supplies
- Total estimated use exceeding supplies = 90 AF (based on 2022 data)
- The minimal financial benefit of including these parcels is outweighed by the increased administrative costs of managing the accounts.

Projected Water Charge Revenue Needs

- Based on District's 10-Year Cash Flow Projections
- Includes expenses for implementation of projects and management actions to increase water supplies and reduce demand per District's Groundwater Sustainability Plan
- Planned Revenues and Expenses for the next 5 years were averaged
- The estimated annual expenses subject to the Water Charge is the difference between the average Revenues and Expenses for the 5-year period:

Average Annual Revenue = \$17.9 Million

Average Annual Expenses = \$22.8 Million

Estimated Annual Expenses Subject to Water Charge = \$4.9 Million

Water Demand Subject to Water Charge

- Consumptive use of water or evapotranspiration (ET) determined through the District's Water Accounting Platform – OpenET for 2022
- Includes both applied water and precipitation
- District is transitioning to LandIQ ET for greater accuracy
- Assumptions for the Water Charge Study:
 - Historically Available Water Supplies of 2.12 AF/Acre
 - Kern County Assessor parcel data
 - Reduction of water demands from OpenET by 10 percent (based on District comparisons of the two datasets)
 - Reduction of water demands by 5 percent in response to implementation of Water Charge (assumption from District's GSP)
 - 85 percent of available excess water supplies would be transferred to other landowner accounts (through an in District water market process)

Calculation for each parcel = (2.12 AF/Acre x Acres) - (2022 ET x .90 x .95)
Estimated Supply - Estimated Demand

Total Estimated Demand Subject to Water Charge = 19,200 AF

Proposed Water Charge Rate

- Projected Expenses Applicable to Water Charge = \$4.9 Million
- Project Demand Subject to Water Charge = 19,200 AF

Recommended Maximum Water Charge Rate = \$256/AF

- Recommendations:
 - Initial Water Charge rate of \$256/AF based on analysis in Water Charge Study
 - Periodically review Water Charge rate and adjust as necessary to reflect changing conditions
 - Adjust available water supply annually to account for actual precipitation and District Project Water supplies

**RESOLUTION OF THE
BOARD OF DIRECTORS OF THE
ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT
IN THE MATTER OF FIXING PROCEDURES FOR A
PROPOSITION 218 MAJORITY PROTEST HEARING REGARDING
THE WATER CHARGE**

RESOLUTION NO. 535

WHEREAS, Rosedale-Rio Bravo Water Storage District (“District”) is a California Water Storage District formed and existing under the California Water Storage District Law (Wat. Code, §§ 39000 *et seq.*).

WHEREAS, the District was organized and formed in 1959 to implement a plan for recharging the underlying groundwater with surplus surface supplies in order to alleviate groundwater level declines within its boundaries.

WHEREAS, the California legislature adopted and the Governor signed into law the Sustainable Groundwater Management Act (SGMA) (Water Code §§ 10720 *et seq.*) in 2014, which generally requires the management of the underlying groundwater reservoir in a sustainable manner.

WHEREAS, the District has elected to form the Rosedale-Rio Bravo Water Storage District Groundwater Sustainability Agency and to undertake sustainable groundwater management within the boundaries of the District.

WHEREAS, the District’s has developed a Conjunctive Use Project that currently provides all lands within the District with a pro-rata share of groundwater benefits based on acreage, and all landowners pay to the District an annual assessment on a per-acre basis to fund the operation of the District’s Project for the benefit of the District’s landowners.

WHEREAS, certain landowners require and use more water than the amount of supply historically available from the District’s Project.

WHEREAS, Water Code section 43006 authorizes the District to “fix tolls or charges for the use of water, including the use of groundwater.”

WHEREAS, Water Code § 10730.2 authorizes the District to impose “fees on the extraction of groundwater from the basin to fund costs of groundwater management, including...activities necessary or convenient to implement [its GSP],” which may be “charged on a volumetric basis [and may] increase based on the quantity of groundwater produced annually, the year in which the production of groundwater commenced from a groundwater extraction facility, and impacts to the basin.”

WHEREAS, the District proposes a volumetric “Water Charge” to be charged for water use on certain agricultural parcels within the District that is in excess of the amount of available water supplies, in order to equitably distribute the financial burden of “sustainability” (i.e., balance) to those landowners who require more water than the District’s Project provides, in proportion to their respective overages.

WHEREAS, the District's staff and consultants have prepared a "Water Charge Study" dated September 2023 ("Rate Study") analyzing the appropriate maximum rate for the Water Charge. The Rate Study is attached hereto as Exhibit A.

WHEREAS, the District proposes to approve the Water Charge as a "property-related fee" within the meaning of Article 13D, Section 6 of the California Constitution ("Prop 218"), and the District is thus required to conduct a majority protest hearing under Prop 218 before imposing the Water Charge.

NOW, THEREFORE, IT IS RESOLVED by the Board of Directors ("Board") of the District that:

1. **Recitals.** The Board finds that each of the above recitals is true and correct.
2. **Statement of Legislative Intent.** The Board's intent, in adopting this Resolution, is to call for "majority protest" proceedings ("Proceedings") that comply with the requirements of Prop 218, the Proposition 218 Omnibus Implementation Act (Government Code sections 53750, *et seq.*, the "Prop 218 Act"), and the California Water Storage District Law (Water Code sections 39000, *et seq.*).
3. **Proposed Groundwater Service Charge.** The proposed Water Charge will be a volumetric charge for water use on agricultural parcels within the District that is in excess of the amount of available water supplies, as more fully described in the Rate Study attached hereto.
 - (a) The amount of the Water Charge will be fixed annually by the Board at an open and public meeting conducted in compliance with the requirements of the Ralph M. Brown Act and other California law.
 - (b) The maximum amount of the Water Charge will be \$256.00 per acre-foot of water used in excess of available supply.
 - (c) The time for paying the Water Charge will be fixed by the Board under Water Code section 47181, and delinquencies in payment will be subject to the penalties and interest provided for in section 47182. The District may collect delinquent charges using the procedures set forth in sections 47183 through 47185, or any other procedure lawfully available to the District.
4. **Majority Protest Hearing.** The Board hereby calls a public hearing with respect to the proposed Water Charge, to be held on **November 14, 2023 at 8:30 a.m., at the District's office located at 849 Allen Road, Bakersfield, CA 93314**, at which time and place any person interested, including all persons owning land subject to the proposed charge, may appear and be heard.
5. **Notice of Hearing.** Notice of the hearing will be given subject to this section.
 - (a) The record owner(s) of each parcel upon which the Water Charge will be imposed shall be determined from the last equalized secured property tax assessment roll received from the County of Kern. Only property owners, not lessees or licensees, shall receive notice, because the record owner is responsible for payment of the Water Charge and owns the lands that may become subject to a lien for delinquencies.

- (b) Notice will be given in substantially the form attached to this resolution as Exhibit B in accordance with Prop 218. Notice shall be sent at least forty-five (45) days prior to the date set for the public hearing.
- (c) At the District's office, located at 849 Allen Road, Bakersfield, CA, a notice will be posted during the 45-day notice period indicating the date, time, and place of the public hearing. A copy of this resolution will also be posted, and a copy of the Rate Study will be available in the District office for review during ordinary business hours.
- (d) Failure of any person to receive notice shall not invalidate the Proceedings.

6. Hearing Procedures. The public hearing will be conducted according to the procedures set forth herein.

- (a) At the public hearing, the Board of Directors shall hear public comments and consider all written protests of the proposed Water Charge until the close of the public hearing. The President of the Board of Directors may impose reasonable time limits on both the length of the hearing and the length of each speaker's testimony.
- (b) The Board of Directors may, in its discretion, adjourn the hearing to another time and place in compliance with Government Code sections 54955 and 54955.1. Any protest, to be received and counted for the purposes of the Proceeding, must be provided in writing to the District before the close of the public hearing. An optional form of written protest is included with the notice attached as Exhibit B to this resolution. The written protest must contain the following:
 - (i) The identity of each parcel represented by the protest;
 - (ii) The name of the protester; and,
 - (iii) A signed statement, containing an original signature, indicating that the writing is a written protest on behalf of the parcel and that the person signing the protest is an owner of the parcel.
- (c) At the conclusion of the hearing, or shortly thereafter, the Secretary of the Board of Directors, or some other person designated by the Board of Directors, shall tabulate the written protests, including those received during the public hearing, to determine whether a majority protest exists.
- (d) If, according to the final tabulation of the written protests, owners of a majority of parcels entitled to protest the Water Charge do so, the Board of Directors shall not impose the Water Charge. However, if no majority protest exists, the Board of Directors may adopt the Water Charge.

7. Other Authorized Action. The District's staff and counsel are authorized and directed to take all necessary and reasonable actions to effectuate the purpose and intent of this resolution.

All the foregoing, being on motion of Director _____, seconded by Director _____, is PASSED, APPROVED AND ADOPTED on this 26th day of September, 2023, by the following roll call vote:

- AYES:
- NOES:
- ABSTAIN:
- ABSENT:

I HEREBY CERTIFY that the foregoing resolution is the resolution of said District as duly passed and adopted by said Board of Directors on the 26th day of September, 2023

WITNESS my hand and seal of the Board of Directors this 26th day of September, 2023.

ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT

Board of Directors, President

Attest:

Board of Directors, Secretary

RESOLUTION NO. 535

EXHIBIT A

FINAL DRAFT
ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT
WATER CHARGE STUDY

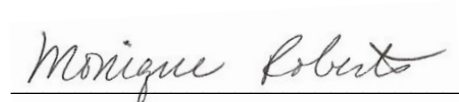
Prepared By:

AECOM

5001 E. Commercenter Drive, Suite 100
Bakersfield, California 93309

Project No. 60707888

September 2023



Monique Roberts, P.E.



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2. – Summary of Projected District Revenues
3. – Maximum RRBWSD Water Charge Calculations

Appendix A – RRBWSD 10 Year Cash Flow Projections

Appendix B – Parcel List and Water Demand Analysis

ROSEDALE RIO-BRAVO WATER STORAGE DISTRICT WATER CHARGE STUDY

Background and Introduction

The Rosedale-Rio Bravo Water Storage District (“District” or “Rosedale”) is considering implementation of a Water Charge for water usage over and above the amount the District’s Conjunctive Use Project (“Project”)¹ generates on a per acre basis. The Project currently provides all lands within the District with a pro-rata share of groundwater benefit based on acreage. However, certain landowners utilize more than the supplies historically available from the District.

In order to prevent groundwater overdraft and maintain sustainable groundwater supplies for its landowners, the District must adopt measures to augment water supplies and/or manage demands. The Water Charge is intended to provide funding for the projects, operations, and management actions associated with water supply augmentation and/or demand management in proportion to the volume of water used. The purpose of this report is to provide the basis for determining the maximum level of a proposed Water Charge for adoption by the District.

The District

Rosedale is a California Water Storage District located generally west of the City of Bakersfield and north of the Kern River. The District encompasses about 44,000 total acres (of which approximately 39,000 are assessed by the District). Property within Rosedale includes approximately 29,600 acres developed to irrigated agricultural uses, about 8,000 acres developed to industrial and residential uses primarily along the eastern edge of Rosedale, and about 1,400 acres which remain undeveloped. Of the acreage developed to irrigated agriculture, about one-half is currently planted to permanent crops - predominately almonds.

To address declining groundwater levels, the District was organized and formed in 1959 to implement a plan for recharging the underlying groundwater with “... surplus waters to be obtained from the Friant-Kern Canal of the Central Valley Project or from any other sources that may be available, including the Kern River, Feather River Project, etc.”². At the outset of the District’s operations, the District constructed water conveyance facilities and recharge (or spreading) basins, the initial construction of which was completed in 1962. Improvements, facilities, and properties have been subsequently added in furtherance of the District’s goal of enhancing the groundwater aquifer underlying lands within the District for the benefit of all landowners within the District. For example, the District has participated in the construction and expansion of the 21-mile long Cross Valley Canal, which provides a means of conveying water from the California Aqueduct to the District. In recent years, the District has acquired interests in property to provide additional recharge capacity and generate additional water supplies for District landowners. These acquisitions include recharge lands

¹ For the purposes of this study, Rosedale’s “Project” is all those rights and obligations of the District which have been obtained or incurred to further the District’s efforts to acquire and recharge water supplies within the groundwater basin underlying lands within the District for the benefit of District landowners.

² *Report on Proposed Project for Rosedale-Rio Bravo Water Storage District*, Boyle Engineering, February 1960

both inside and outside of the District's boundaries, and the acquisition of approximately 3,300 acres on the South Fork of the Kern River (commonly referred to as the "Onyx Ranch" property). The District's project currently includes approximately 1,260 acres of recharge ponds and 12 miles of conveyance facilities within the District.

Recognizing the increasing cost of water and the potential impacts to water supply reliability from both environmental and legal restrictions in the Sacramento-San Joaquin Delta, the District has developed and entered into a number of water management agreements with other water districts, both within and outside of Kern County. These agreements are designed to either increase water supplies available to District landowners or to generate revenues to off-set the increasing cost of water supplies. Rosedale has been able to capitalize on its strategic location and favorable aquifer characteristics by developing water banking programs under which other water districts deliver water into Rosedale in "wet" years and "bank" the water in Rosedale for a future return. The benefit of these programs is generally that more water is delivered to Rosedale than it is obligated to return (usually on a 2 for1 basis). This allows Rosedale to augment its water supplies and mitigate fluctuations or reductions in its supplies, which in turn can improve groundwater levels within the District to the benefit of all landowners within the District.

In 2014, California enacted legislation known as the Sustainable Groundwater Management Act (SGMA), which provides a framework for sustainable management of groundwater supplies by local authorities like Rosedale. The act requires the formation of local groundwater sustainability agencies (GSAs) that must assess conditions in their local water basins and adopt locally-based management plans. The act requires GSAs to implement plans and achieve long-term groundwater sustainability within approximately 20 years.

Rosedale has formed a GSA covering lands within its management area which includes its boundaries as well as a small number of adjoining lands that are located outside of a local water management authority. Rosedale has also developed and adopted a Groundwater Sustainability Plan (GSP) covering the lands within its management area. Rosedale's GSP includes various projects and management actions with the goal of augmenting water supplies and reducing water demand within the District. The water charge discussed in this study is one of the management actions described in Rosedale's GSP.

District Assessment

The District has levied an annual assessment on a per-acre basis for more than 50 years to fund the operation of the District's Project for the benefit of its landowners. The lands which are subject to the Assessment include all lands within Rosedale-Rio Bravo Water Storage District, except those that are exempt from the District's assessments that do not receive the benefits of the District's Project (e.g., government lands, roads, etc.). The Assessment is set annually by the Board of Directors after consideration of the District's proposed budget and anticipated expenses and revenues. The assessment for 2023 (collected 2023-2024) is \$150 per-acre. To date, the Assessment has been collected by the County of Kern with the property tax bill and it is likely that this practice will continue.

A per-acre assessment has historically worked well for the District because all landowners have access to the benefits provided by the District's Project. Since the advent of SGMA, however, there is a need to implement a volumetric charge in order to equitably distribute the financial burden of "sustainability" (i.e., balance) to those landowners who require more water than the District's Project provides, in proportion to their respective overages.

Need for the Water Charge

As described more fully below, the proposed Water Charge is based on the volume of water used over and above the amount that the District's Project historically generates on a per-parcel basis within the District boundaries. The Water Charge is a new charge which is driven by SGMA requirements to manage the underlying groundwater reservoir in a sustainable manner. The District's sustainable groundwater management has been hindered in the short term by hydrology (i.e., recent droughts), and in the long term by regulatory constraints on pumping from the Sacramento-San Joaquin River Delta which have resulted in a decline in available District supplies from the State Water Project. The Water Charge is necessary to fund projects and the acquisition of land and water in order to generally balance the water supply and demand in the District and to meet the requirements of SGMA.

Authority for Proposed Water Charge

The District has the authority under the Water Storage District Act to "fix tolls and charges for the use of water, including the use of groundwater, or for any other service of any type or nature whether or not related to water use, rendered by the district, and collect the same from all persons receiving the benefit of the water or other services." (Water Code § 43006). The District may also (as a GSA) impose "fees on the extraction of groundwater from the basin to fund costs of groundwater management, including...activities necessary or convenient to implement the [GSP]." (Water Code § 10730.2). Such fees may include "fees charged on a volumetric basis, including, but not limited to, fees that increase based on the quantity of groundwater produced annually, the year in which the production of groundwater commenced from a groundwater extraction facility, and impacts to the basin." (Water Code § 10730.2).

Application of Proposed Water Charge

Generally speaking, the Water Charge may not exceed the reasonable cost of providing the service and must be allocated in a fair and reasonable manner among all the parcels served. Therefore, the Water Charge is proposed to be established in proportion to the water supply benefit received by the various parcels within the District and implemented on a per acre-foot basis to those parcels using supplies in excess of a baseline quantity. For the establishment of an initial Water Charge, the baseline quantity is proposed to be set as the current estimate of historically available water supplies. While the use of historically available water supplies as the baseline quantity is deemed appropriate based on current data, this assumption should be reevaluated in the future as conditions change.

The historically available water supplies are currently estimated by the District to be approximately 2.12 acre-feet per acre as follows:

- Native Yield – 0.15 acre-feet per acre³
- Precipitation – 0.42 acre-feet per acre⁴
- Project Water – 1.55 acre-feet per acre⁵

On average, urban development uses less on a per acre basis than the District’s historically available water supplies and will not be subject to the proposed Water Charge. In addition, most of the land within the District that is developed to urban uses receives water service from an urban water purveyor that charges tiered rates (thereby encouraging conservation). Since lands within the incorporated City of Bakersfield are almost exclusively residential and are subject to SGMA management through the Kern River Groundwater Sustainability Agency (GSA), these parcels are also excluded from the proposed Water Charge.

For the purposes of the Water Charge assessment, agricultural parcels are defined as having an agricultural Use Code assigned by the Kern County Assessor, agricultural zoning per Kern County, or visual identification of irrigated agricultural use on the parcel. Based on data from the District’s Water Accounting Platform⁶ for 2022, agricultural parcels less than 9.5 acres in size were generally found to use less than the District’s historically available water supplies. The vast majority of water demand in excess of historically available water supplies was generated by parcels 9.5 acres and larger in size.

However, there are groups of adjacent Assessor Parcels smaller than 9.5 acres that form a larger farmed area with a single landowner. One example is west of Enos Lane and South of Brimhall where three adjacent approximately 5-acre parcels are farmed with almonds. The majority of these adjacent parcels are 5 acres or larger and developed in almonds (typically using more than the District’s historically available water supplies). The water demand for these adjacent parcel groups is equivalent to a larger parcel size on a cumulative basis. It is proposed that these and any other similarly sized/farmed parcels will be subject to the Water Charge because they are effectively being used as a single parcel and are using more water than the District’s Project provides.

Of the approximately 540 agricultural parcels less than 9.5 acres (exclusive of the adjacent parcel groups described above), only 67 parcels were estimated to have water usage in excess of District’s historically available supplies with a total estimated water demand of 90 acre-feet in excess of available supplies. The minimal financial benefit to charging these approximately 540 parcels is offset by the increased expense of monitoring and managing the additional accounts.

³ Native yield refers to the natural, unallocated portion of the groundwater recharge to the Kern Subbasin. Current estimated value of 0.15 acre-feet per acre from the July 2022 Kern Groundwater Authority Amended Groundwater Sustainability Plan. Continued analysis and refinement of the native yield is identified as a management action for the Groundwater Sustainability Agencies in the subbasin.

⁴ Precipitation is included as a water supply since irrigation demand of precipitation is a component of the water demand (evapotranspiration or ET) estimates. For the purposes of this analysis, precipitation is based on the historic average of 5.04 inches/year. However, it is recommended that actual precipitation be used when implementing the Water Charge.

⁵ Net water supplies as a result of the District’s Project. Based on the average net water supply available for the period 2002-2021 from the District’s 2021 Operations Report with Miscellaneous Water supplies from the City adjusted to reflect the Settlement Agreement and Mutual Release dated July 1, 2022 (61,268 acre feet) divided by the total assessed acres (39,468 per the District’s GSP).

⁶ Waterbudget.rrbwsd.com

Therefore, the Water Charge is proposed to apply to agricultural parcels 9.5 acres or greater in size and those parcels less than 9.5 acres but larger than 4.7 acres (nominal 5-acre parcels) when located adjacent to other parcels owned/controlled by the same landowner and/or collectively developed in irrigated agricultural use.

Methodology and Approach

The District has implemented projects and management actions as outlined in the Groundwater Sustainability Plan for the Rosedale-Rio Bravo Management Area with the goal of augmenting its water supplies and reducing demand in order to provide sustainable groundwater conditions for its landowners. The projected expenses and revenues associated with the implementation of these projects and management actions, along with the projected expenses and revenues for the continuing operations of the District's Project, are included in the District's 10-year Cash Flow Projections (see **Appendix A**). The District has included expenses to cover anticipated actions such as purchases of land for fallowing or acquisition of additional water supplies to meet landowner demands.

The majority of the currently available revenues in the 10-year Cash Flow Projection are annual property assessments and income from groundwater banking programs. These current revenue sources are considered to reasonably cover the District's historically available water supplies (baseline quantity). Therefore, the difference between the projected costs and projected available revenues is considered to provide funding for the implementation of water augmentation projects and management actions and is proposed to be used as the basis for calculation of the maximum Water Charge.

The District's projected expenses for the years 2024 through 2029 from the 10-year Cash Flow Projections are summarized in **Table 1** with the projected available revenues for the same time period summarized in **Table 2**. The difference between the projected expenses and revenues for the six-year analysis period is an average of about \$4.9 million per year or about 21 percent of the District's projected average annual expenses.

**TABLE 1
SUMMARY OF PROJECTED DISTRICT EXPENSES¹**

	2024 Budget	2025 Estimated	2026 Estimated	2027 Estimated	2028 Estimated	2029 Estimated	Average
Operations Expenses							
Salaries and Wages	\$1,642,040	\$1,723,280	\$1,808,559	\$1,898,081	\$1,992,056	\$2,090,707	\$1,859,121
Benefits	\$420,000	\$440,400	\$461,958	\$484,747	\$508,845	\$534,334	\$475,047
Water Purchases and Fees	\$4,925,000	\$5,324,992	\$5,626,245	\$5,765,032	\$5,907,983	\$6,555,223	\$5,684,079
Pumping Costs	\$500,000	\$920,000	\$966,000	\$1,014,300	\$1,065,015	\$1,118,266	\$930,597
Operations	\$1,876,000	\$1,845,300	\$2,015,085	\$2,118,116	\$2,198,439	\$2,243,098	\$2,049,340
Utilities	\$30,000	\$31,500	\$33,075	\$34,729	\$36,465	\$38,288	\$34,010
Maintenance	\$190,000	\$251,390	\$263,325	\$275,832	\$288,937	\$302,670	\$262,026
Administration	\$463,875	\$480,880	\$498,571	\$516,979	\$536,135	\$556,072	\$508,752
Professional Services	\$906,000	\$834,210	\$863,407	\$893,627	\$924,904	\$957,275	\$896,571
Debt Service	\$3,938,054	\$3,941,297	\$3,939,503	\$3,947,049	\$3,943,403	\$3,943,221	\$3,942,088
SUBTOTAL	\$14,890,969	\$15,793,249	\$16,475,728	\$16,948,492	\$17,402,182	\$18,339,154	\$16,641,629
Non-Operating Expenses							
Third Party Project Capital							
Expenditures	\$128,535	\$128,535	\$2,500,000	\$0	\$0	\$0	\$459,512
Capital Expenditures	\$4,318,000	\$7,666,540	\$12,787,830	\$3,117,305	\$3,180,824	\$3,246,249	\$5,719,458
SUBTOTAL	\$4,446,535	\$7,795,075	\$15,287,830	\$3,117,305	\$3,180,824	\$3,246,249	\$6,178,970
TOTAL PROJECTED EXPENSES	\$19,337,504	\$23,588,324	\$31,763,558	\$20,065,797	\$20,583,006	\$21,585,403	\$22,820,599

Notes:

1) Projected Expenses are per RRBWSD 10 Year Cash Flow Projections (see Appendix A).

**TABLE 2
SUMMARY OF PROJECTED DISTRICT REVENUES¹**

	2024 Budget	2025 Estimated	2026 Estimated	2027 Estimated	2028 Estimated	2029 Estimated	Average
Operating Revenues							
Assessments	\$5,827,040	\$5,828,300	\$5,829,648	\$5,831,090	\$5,832,634	\$6,802,459	\$5,991,862
Other Income	\$220,000	\$235,400	\$251,878	\$269,509	\$288,375	\$308,561	\$262,287
Groundwater Banking Income	\$5,600,000	\$5,768,000	\$5,941,040	\$6,119,271	\$6,302,849	\$6,491,935	\$6,037,183
Reimbursements	\$495,000	\$473,950	\$504,861	\$537,867	\$573,113	\$610,755	\$532,591
Interest Income	\$300,000	\$321,000	\$343,470	\$367,513	\$393,239	\$420,766	\$357,665
SUBTOTAL	\$12,442,040	\$12,626,650	\$12,870,897	\$13,125,250	\$13,390,210	\$14,634,476	\$13,181,587
Non-Operating Revenues							
Non-Recurring Water Sales	\$1,000,000	\$3,250,000	\$3,250,000	\$3,250,000	\$3,250,000	\$3,250,000	\$2,875,000
Other Income	\$5,000	\$5,350	\$5,725	\$6,125	\$6,554	\$7,013	\$5,961
Grant Income	\$500,000	\$750,000	\$0	\$0	\$0	\$0	\$208,333
Asset Sale Income	\$10,000,000	\$0	\$0	\$0	\$0	\$0	\$1,666,667
SUBTOTAL	\$11,505,000	\$4,005,350	\$3,255,725	\$3,256,125	\$3,256,554	\$3,257,013	\$4,755,961
TOTAL PROJECTED REVENUES	\$23,947,040	\$16,632,000	\$16,126,622	\$16,381,375	\$16,646,764	\$17,891,489	\$17,937,548

Notes:

1) Projected Revenues are per RRBWSD 10 Year Cash Flow Projections (see Appendix A).

TOTAL PROJECTED REVENUES LESS

TOTAL PROJECTED EXPENSES: \$4,609,536 (\$6,956,324) (\$15,636,936) (\$3,684,422) (\$3,936,242) (\$3,693,914) (\$4,883,050)

Water Demand Subject to Water Charge

Water demand subject to the Water Charge is proposed to be the applicable consumptive use of water, or evapotranspiration (ET), determined through the District's Water Accounting Platform. Currently, the District utilizes a satellite-based ET model called OpenET and Kern County assessor parcel data to develop the water demands on a per parcel basis. The water demand determined through OpenET includes ET from both applied water and precipitation.

The District is transitioning to use of another satellite based ET model, LandIQ ET, which due to its improved accuracy is proposed to provide ET monitoring services to all irrigated agricultural areas within the Kern Subbasin. Based on comparisons between OpenET and LandIQ ET datasets, an average reduction of 10 percent from ET results developed by OpenET is expected.

In the District's Water Accounting Platform, agricultural parcels larger than the minimum size that are owned by the same landowner will be combined into a single account. Each landowner account subject to the Water Charge is proposed to be assessed based on the volume of water demand that exceeds the available supply, which for the purposes of this study is the same as the baseline quantity of 2.12 acre-feet per acre. For example, if an individual landowner account includes agricultural parcels totaling 200 acres with a water demand determined to be 2.62 acre-feet per acre, the water charge would be applied to a volume of 100 acre-feet (200 acres x [2.62-2.12] acre-feet per acre). The landowner account demand subject to the Water Charge would be adjusted to reflect any transfers or exchanges approved by the District. The District Board anticipates implementing policies to allow for an in-District "water market" under which agricultural landowners who choose to fallow land (or otherwise use less than the District's Project provides) may transfer or assign the Project water to other landowners on an annual basis.

Data in the District's Water Accounting Platform for calendar year 2022 was used to develop an estimate of the average annual water volume that may be subject to the Water Charge for the purposes of this Study. Water demands for 2022 are consistent with the average of the five years for which the District has compiled data on its Water Accounting Platform and the landowner account information for 2022 better reflects current conditions.

The following assumptions were made to adjust the results from the District's Water Accounting Platform for Calendar Year 2022 for parcels proposed to be subject to the Water Charge:

- District water supplies are per the historical average of 2.12 acre-feet per acre.
- Water demands estimated by OpenET are reduced by 10 percent to reflect the expected reduction in ET results when estimated by LandIQ ET.
- Water demands are further reduced by 5 percent (a total of approximately 4,500 AF per year) in response to the implementation of a Water Charge as estimated per the District's Groundwater Sustainability Plan.
- It is assumed that approximately 85 percent of water supplies from landowner accounts with excess supplies would be transferred to landowner accounts with deficits (through an in District water market process).

The calculations above result in an estimated volume of about 19,200 acre-feet per year projected to be subject to the Water Charge as shown in **Appendix B**.

Proposed Water Charge Rate

The maximum Rosedale Water Charge rate is proposed to be calculated as the projected expenses applicable to the Water Charge divided by the projected annual demand subject to the Water Charge as shown in **Table 3**. Rounding the amount up to the nearest whole dollar results in a recommended maximum Water Charge rate of \$256.00 per acre-foot.

**TABLE 3
MAXIMUM RRBWSD WATER CHARGE CALCULATIONS**

Projected Expenses Applicable to Water Charge =	\$4.9 Million
Projected Demand Subject to Water Charge =	19,200 acre-feet
Projected Expenses/Projected Demand =	\$255.21 per acre-foot
Recommended Maximum Water Charge Rate =	\$256.00 per acre-foot

It is important to note that the above recommended rate is a *maximum* rate; the District’s Board of Directors will annually set the rate at a level equal to or less than the maximum after consideration of various financial factors, including the District projected revenues and expenses as well as land, water, and project construction costs.

Recommendations

The maximum Water Charge Rate is recommended to be initially set at \$256.00 per acre-foot based on the analysis described in this study. It is further recommended that the District Board review the Water Charge rate periodically so that the Water Charge rate may be adjusted as necessary to reflect the applicable conditions at that time. It is also recommended that the available water supply be adjusted annually to account for actual precipitation and the District’s Project Water supplies for the previous year.

Proposition 218 Process

If approved, the Water Charge will be levied as a “property related fee” under Article 13D, Section 6 of the California Constitution (commonly referred to as “Prop 218”).

The District will conduct a protest hearing regarding the Water Charge under Prop 218. The procedural requirements for the Water Charge are set forth in section 6, subsections (a)(1) and (a)(2), of Prop 218. Those procedures are as follows:

- Identification of the parcels upon which a fee or charge is proposed to be imposed (Cal. Const., art. 13D, § 6(a)(1).)

The Water Charge will apply to agricultural parcels 9.5 acres or greater in size and those parcels less than 9.5 acres but larger than 4.7 acres (nominal 5-acre parcels) when located adjacent to other parcels owned/controlled by the same landowner and/or collectively developed in irrigated

agricultural use. As is discussed more fully above, parcels in urban use and most agricultural parcels less than 9.5 acres in size were found to generally use less water than the District's historically available water supplies and will not be subject to the Water Charge. The vast majority of water demand in excess of available water supplies is generated by agricultural parcels 9.5 acres and larger in size. However, there are groupings of agricultural parcels less than 9.5 acres but greater than 4.7 acres (nominal 5-acre parcels) which are located adjacent to other parcels that are owned/controlled by the same landowner and which generally use more than the District's historically available water supplies. It is reasonable for these parcels to be subject to the Water Charge due to their cumulative water demands and collective development to the same purpose.

The parcel list attached to this Study, which includes all of the parcels that will initially be subjected to the Water Charge, was developed based on the County's last equalized secured property tax assessment roll. (Government Code § 53750(j)).

- Calculation of the charge to be imposed (Cal. Const., art. 13D, § 6(a)(1).)

The charge to be imposed will be based on a volumetric basis. As discussed above, each landowner account subject to the Water Charge is proposed to be charged based on the volume of water demand annually that exceeds the available supply multiplied by the amount of the Water Charge as determined by the District's Board of Directors. The proposed maximum rate was calculated by distributing the amount required to fund projects and the acquisition of land and water in order to generally balance the water supply and demand in the District to those landowners who generally use more water than the District's Project provides.

- Notice to All Landowners (Cal. Const., art. 13D, § 6(a)(1).)

If approved by the District's Board, written notice of the proposed Water Charge will be provided to the record owner of each parcel which is proposed to be subjected to the Water Charge. Since the Landowners' actual consumptive use to be subjected to the water charge is not known until after the fact, the initial notice will include an example of the proposed water charge that is based upon the Landowner's consumptive use in 2022 in comparison to the current estimate of historically available water supplies; the maximum rate will be used to determine the amount set forth in the notice. Since the amounts will vary by landowner, the portion of the notice that includes the example calculation will not be uniform across all landowners. The notice will also set forth the basis upon which the amount of the proposed charge was calculated and the reason for the charge, together with the date, time, and location of a public hearing on the proposed Water Charge.

- Protest Hearing / Final Adoption -

At least 45 days after mailing the notice described above, the District's Board of Directors will conduct a public hearing at which time any landowner or member of the public may provide comments on the Water Charge to the Board of Directors. Landowners will also be provided with a form that they may use to register a protest to the proposed Water Charge at or prior to the close of the public hearing. After the hearing is closed, the Board will tabulate all protests received to determine whether a majority protest exists. If written protests are received by a majority of owners of the identified parcels, the proposed Water Charge will not be adopted or implemented. If no majority protest is

received, the Board will consider the comments received and other evidence that may be provided (including this report) and will determine whether or not to adopt the proposed Water Charge.

Appendix A

RRBWS D 10-YEAR CASH FLOW PROJECTIONS

10 YEAR CASH FLOW PROJECTIONS

Account No.	Description	Budget O&A PROJECTED 2023	Budget O&A 2024	Budget O&A 2025	Budget O&A 2026	Budget O&A 2027	Budget O&A 2028	Budget O&A 2029	Budget O&A 2030	Budget O&A 2031	Budget O&A 2032	Budget O&A 2033	Budget O&A 2034	Budget Assumptions
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OPERATING REVENUES

Assessments														
40000	Assesment Income	\$ 5,809,040	\$ 5,809,040	\$ 5,809,040	\$ 5,809,040	\$ 5,809,040	\$ 5,809,040	\$ 6,777,213	\$ 6,777,213	\$ 8,614,031	\$ 8,614,031	\$ 8,614,031	\$ 8,614,031	7.00%
40500	Water Charge	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	7.00%
40010	Prior Year Assesment Income	\$ 18,000	\$ 18,000	\$ 19,260	\$ 20,608	\$ 22,051	\$ 23,594	\$ 25,246	\$ 27,013	\$ 28,904	\$ 30,927	\$ 33,092	\$ 35,409	7.00%
	Total Assessments	\$ 5,827,040	\$ 5,827,040	\$ 5,828,300	\$ 5,829,648	\$ 5,831,090	\$ 5,832,634	\$ 6,802,459	\$ 6,804,226	\$ 8,642,935	\$ 8,644,958	\$ 8,647,123	\$ 8,649,440	

Other Income														
40509	Lease Income	\$ 70,000	\$ 70,000	\$ 74,900	\$ 80,143	\$ 85,753	\$ 91,756	\$ 98,179	\$ 105,051	\$ 112,405	\$ 120,273	\$ 128,692	\$ 137,701	7.00%
41001	Refunds and Credits (Other)	\$ 150,000	\$ 150,000	\$ 160,500	\$ 171,735	\$ 183,756	\$ 196,619	\$ 210,383	\$ 225,110	\$ 240,867	\$ 257,728	\$ 275,769	\$ 295,073	7.00%
	Total Refunds & Credits	\$ 220,000	\$ 220,000	\$ 235,400	\$ 251,878	\$ 269,509	\$ 288,375	\$ 308,561	\$ 330,161	\$ 353,272	\$ 378,001	\$ 404,461	\$ 432,773	

User Charges														
40501	Water Sales	\$ 5,825,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	3.00%
40508	Groundwater Banking Income	\$ 5,481,949	\$ 5,600,000	\$ 5,768,000	\$ 5,941,040	\$ 6,119,271	\$ 6,302,849	\$ 6,491,935	\$ 6,686,693	\$ 6,887,294	\$ 7,093,912	\$ 7,306,730	\$ 7,525,932	3.00%
	Total User Charges	\$ 11,306,949	\$ 5,600,000	\$ 5,768,000	\$ 5,941,040	\$ 6,119,271	\$ 6,302,849	\$ 6,491,935	\$ 6,686,693	\$ 6,887,294	\$ 7,093,912	\$ 7,306,730	\$ 7,525,932	

Reimbursements														
40507	O&M Reimbursement Income	\$ 175,000	\$ 180,000	\$ 192,600	\$ 206,082	\$ 220,508	\$ 235,943	\$ 252,459	\$ 270,131	\$ 289,041	\$ 309,274	\$ 330,923	\$ 354,087	7.00%
40503	Conveyance Income	\$ 55,000	\$ 55,000	\$ 56,650	\$ 58,350	\$ 60,100	\$ 61,903	\$ 63,760	\$ 65,673	\$ 67,643	\$ 69,672	\$ 71,763	\$ 73,915	3.00%
40506	Groundwater Mitigation Income	\$ 100,000	\$ 105,000	\$ 112,350	\$ 120,215	\$ 128,630	\$ 137,634	\$ 147,268	\$ 157,577	\$ 168,607	\$ 180,410	\$ 193,038	\$ 206,551	7.00%
41050	Resource Management Income	\$ 100,000	\$ 105,000	\$ 112,350	\$ 120,215	\$ 128,630	\$ 137,634	\$ 147,268	\$ 157,577	\$ 168,607	\$ 180,410	\$ 193,038	\$ 206,551	7.00%
40510	Groundwater Recovery Reimbursement	\$ 50,000	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	7.00%
	Total Reimbursements	\$ 475,000	\$ 495,000	\$ 473,950	\$ 504,861	\$ 537,867	\$ 573,113	\$ 610,755	\$ 650,958	\$ 693,898	\$ 739,765	\$ 788,762	\$ 841,104	

Interest Income														
40600	Interest Income	\$ 300,000	\$ 300,000	\$ 321,000	\$ 343,470	\$ 367,513	\$ 393,239	\$ 420,766	\$ 450,219	\$ 481,734	\$ 515,456	\$ 551,538	\$ 590,145	7.00%
	Total Interest Income	\$ 300,000	\$ 300,000	\$ 321,000	\$ 343,470	\$ 367,513	\$ 393,239	\$ 420,766	\$ 450,219	\$ 481,734	\$ 515,456	\$ 551,538	\$ 590,145	

	TOTAL OPERATING REVENUE FROM CURRENT FISCAL YEAR	\$ 18,128,989	\$ 12,442,040	\$ 12,626,650	\$ 12,870,896	\$ 13,125,251	\$ 13,390,211	\$ 14,634,476	\$ 14,922,256	\$ 17,059,133	\$ 17,372,093	\$ 17,698,614	\$ 18,039,395	
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EXPENDITURES

Salaries and Wages														
60000	Wages and Salaries Expense	\$ 1,484,000	\$ 1,573,040	\$ 1,651,692	\$ 1,734,277	\$ 1,820,990	\$ 1,912,040	\$ 2,007,642	\$ 2,108,024	\$ 2,213,425	\$ 2,324,097	\$ 2,440,301	\$ 2,562,316	5.00%
60007	Workers Compensation Insurance	\$ 33,000	\$ 34,500	\$ 36,225	\$ 38,036	\$ 39,938	\$ 41,935	\$ 44,032	\$ 46,233	\$ 48,545	\$ 50,972	\$ 53,521	\$ 56,197	5.00%
60001	Payroll Expense	\$ 33,000	\$ 34,500	\$ 35,363	\$ 36,247	\$ 37,153	\$ 38,082	\$ 39,034	\$ 40,009	\$ 41,010	\$ 42,035	\$ 43,086	\$ 44,163	2.50%
	Total Salaries and Wages	\$ 1,550,000	\$ 1,642,040	\$ 1,723,280	\$ 1,808,559	\$ 1,898,081	\$ 1,992,056	\$ 2,090,707	\$ 2,194,267	\$ 2,302,980	\$ 2,417,104	\$ 2,536,908	\$ 2,662,676	

Benefits														
60006	Benefits - CalPers Retirement	\$ 210,000	\$ 225,000	\$ 231,750	\$ 238,703	\$ 245,864	\$ 253,239	\$ 260,837	\$ 268,662	\$ 276,722	\$ 285,023	\$ 293,574	\$ 302,381	3.00%
60005	Benefits Health, Dental, Life, Vision	\$ 180,000	\$ 195,000	\$ 208,650	\$ 223,256	\$ 238,883	\$ 255,605	\$ 273,498	\$ 292,642	\$ 313,127	\$ 335,046	\$ 358,500	\$ 383,595	7.00%
60016	CalPers Overpay Expense (Offset)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	7.00%
	Total Benefits	\$ 390,000	\$ 420,000	\$ 440,400	\$ 461,959	\$ 484,747	\$ 508,845	\$ 534,334	\$ 561,304	\$ 589,849	\$ 620,070	\$ 652,074	\$ 685,976	

Water Purchases and Fees														
61000	KCWA SWP Expense	\$ 3,477,791	\$ 3,500,000	\$ 3,605,000	\$ 3,713,150	\$ 3,824,545	\$ 3,939,281	\$ 4,057,459	\$ 4,179,183	\$ 4,304,559	\$ 4,433,695	\$ 4,566,706	\$ 4,703,707	3.00%
61401	DCP	\$ 757,720	\$ 775,000	\$ 833,492	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,500,000	\$ 1,500,000	\$ 1,750,000	\$ 2,000,000	\$ 2,000,000	\$ 2,000,000	
61001	City of Bakersfield - Kern River (Basic Contract)	\$ 4,975,000	\$ 100,000	\$ 585,000	\$ 602,550	\$ 620,627	\$ 639,245	\$ 658,423	\$ 678,175	\$ 698,521	\$ 719,476	\$ 741,060	\$ 763,292	3.00%
61050	Other Water Purchase Expense	\$ 750,000	\$ 500,000	\$ 250,000	\$ 257,500	\$ 265,225	\$ 273,182	\$ 281,377	\$ 289,819	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	3.00%
64000	Water Transaction Fees	\$ 50,000	\$ 50,000	\$ 51,500	\$ 53,045	\$ 54,636	\$ 56,275	\$ 57,964	\$ 59,703	\$ 61,494	\$ 63,339	\$ 65,239	\$ 67,196	3.00%
	Total Water Purchase and Fees	\$ 10,010,511	\$ 4,925,000	\$ 5,324,992	\$ 5,626,245	\$ 5,765,032	\$ 5,907,983	\$ 6,555,223	\$ 6,706,880	\$ 7,814,573	\$ 8,216,510	\$ 8,373,005	\$ 8,534,195	

Operations - Pumping Costs														
61300	Surface Water Pumping Expense	\$ 400,000	\$ 400,000	\$ 420,000	\$ 441,000	\$ 463,050	\$ 486,203	\$ 510,513	\$ 536,038	\$ 562,840	\$ 590,982	\$ 620,531	\$ 651,558	5.00%
61301	Groundwater Well Pumping Expense	\$ 100,000	\$ 100,000	\$ 500,000	\$ 525,000	\$ 551,250	\$ 578,813	\$ 607,753	\$ 638,141	\$ 670,048	\$ 703,550	\$ 738,728	\$ 775,664	5.00%
	Total Operations - Pumping Costs	\$ 500,000	\$ 500,000	\$ 920,000	\$ 966,000	\$ 1,014,300	\$ 1,065,015	\$ 1,118,266	\$ 1,174,179	\$ 1,232,888	\$ 1,294,532	\$ 1,359,259	\$ 1,427,222	

Operations														
61350	Groundwater Mitigation Expense	\$ 50,000	\$ 50,000	\$ 51,500	\$ 53,045	\$ 54,636	\$ 56,275	\$ 57,964	\$ 59,703	\$ 61,494	\$ 63,339	\$ 65,239	\$ 67,196	3.00%
61400	Third Party Project Operations	\$ 1,144,000	\$ 1,170,000	\$ 1,117,500	\$ 1,264,725	\$ 1,344,407	\$ 1,400,559	\$ 1,420,196	\$ 1,429,332	\$ 1,434,982	\$ 1,453,161	\$ 1,471,886	\$ 1,491,172	
61450	Regulatory Program Compliance	\$ 60,000	\$ 60,000	\$ 63,000	\$ 66,150	\$ 69,458	\$ 72,930	\$ 76,577	\$ 80,406	\$ 84,426	\$ 88,647	\$ 93,080	\$ 97,734	5.00%
61800	Fuel - Unleaded and Diesel	\$ 90,000	\$ 95,000	\$ 97,850	\$ 100,786	\$ 103,809	\$ 106,923	\$ 110,131	\$ 113,435	\$ 116,838	\$ 120,343	\$ 123,953	\$ 127,672	3.00%
61650	Operating Supplies	\$ 30,000	\$ 35,000	\$ 36,750	\$ 38,588	\$ 40,517	\$ 42,543	\$ 44,670	\$ 46,903	\$ 49,249	\$ 51,711	\$ 54,296	\$ 57,011	5.00%
65500	Weed Control/Chemicals	\$ 100,000	\$ 105,000	\$ 108,150	\$ 111,395	\$ 114,736	\$ 118,178	\$ 121,724	\$ 125,375	\$ 129,137	\$ 133,011	\$ 137,001	\$ 141,111	3.00%
61660	Property Lease Expense	\$ 61,200	\$ 61,000	\$ 64,050	\$ 67,253	\$ 70,615	\$ 74,146	\$ 77,853	\$ 81,746	\$ 85,833	\$ 90,125	\$ 94,631	\$ 99,363	5.00%
61655	Water Quality Testing	\$ 50,000	\$ 50,000	\$ 51,000	\$ 52,000	\$ 53,060	\$ 54,122	\$ 55,204	\$ 56,308	\$ 57,434	\$ 58,583	\$ 59,755	\$ 60,950	2.00%
61500	Equipment Rental Expense	\$ 50,000	\$ 50,000	\$ 51,500	\$ 53,045	\$ 54,636	\$ 56,275	\$ 57,964	\$ 59,703	\$ 61,494	\$ 63,339	\$ 65,239	\$ 67,196	3.00%
68000	Property Taxes	\$ 200,000	\$ 200,000	\$ 204,000	\$ 208,080	\$ 212,242	\$ 216,486	\$ 220,816	\$ 225,232	\$ 229,737	\$ 234,332	\$ 239,019	\$ 243,799	2.00%
	Total Operations	\$ 1,835,200	\$ 1,876,000	\$ 1,845,300	\$ 2,015,085	\$ 2,118,116	\$ 2,198,439	\$ 2,243,098	\$ 2,278,143	\$ 2,310,623	\$ 2,356,590	\$ 2,404,098	\$ 2,453,203	

Utilities														
66000	Utilities (Electric, Gas, Trash)	\$ 14,000	\$ 14,000	\$ 14,700	\$ 15,435	\$ 16,207	\$ 17,017	\$ 17,868	\$ 18,761	\$ 19,699	\$ 20,684	\$ 21,719	\$ 22,805	5.00%
66001	Phone, Internet, Cell Phone Expense	\$ 16,000	\$ 16,000	\$ 16,800	\$ 17,640	\$ 18,522	\$ 19,448	\$ 20,421	\$ 21,442	\$ 22,514	\$ 23,639	\$ 24,821	\$ 26,062	5.00%
	Total Utilities	\$ 30,000	\$ 30,000	\$ 31,500	\$ 33,075	\$ 34,729	\$ 36,465	\$ 38,288	\$ 40,203	\$ 42,213	\$ 44,324	\$ 46,540	\$ 48,867	

Maintenance														
65000	Auto and Truck Maintenance and Repair	\$ 25,000	\$ 27,000	\$ 28,350	\$ 29,768	\$ 31,256	\$ 32,819	\$ 34,460	\$ 36,183	\$ 37,992	\$ 39,891	\$ 41,886	\$ 43,980	5.00%
65001	Equipment Maintenance and Repair	\$ 50,000	\$ 52,000	\$ 54,600	\$ 57,330	\$ 60,197	\$ 63,206	\$ 66,367	\$ 69,685	\$ 73,169	\$ 76,828	\$ 80,669	\$ 84,703	5.00%
65100	Building Maintenance	\$ 15,000	\$ 17,000	\$ 17,680	\$ 18,387	\$ 19,123	\$ 19,888	\$ 20,683	\$ 21,510	\$				

Administration																										
60110	Assessment Expense (Reimburse)	\$	125,000	\$	125,000	\$	128,125	\$	131,328	\$	134,611	\$	137,977	\$	141,426	\$	144,962	\$	148,586	\$	152,300	\$	156,108	\$	160,011	2.50%
60200	Licenses, Permits and Fees	\$	10,000	\$	10,000	\$	10,250	\$	10,506	\$	10,769	\$	11,038	\$	11,314	\$	11,597	\$	11,887	\$	12,184	\$	12,489	\$	12,801	2.50%
62000	General Office Expense	\$	25,000	\$	27,000	\$	27,675	\$	28,367	\$	29,076	\$	29,803	\$	30,548	\$	31,312	\$	32,095	\$	32,897	\$	33,719	\$	34,562	2.50%
62001	Printing and Reproduction	\$	12,000	\$	13,000	\$	13,325	\$	13,658	\$	14,000	\$	14,350	\$	14,708	\$	15,076	\$	15,453	\$	15,839	\$	16,235	\$	16,641	2.50%
62003	Publications and Notices	\$	2,000	\$	2,000	\$	2,050	\$	2,101	\$	2,154	\$	2,208	\$	2,263	\$	2,319	\$	2,377	\$	2,437	\$	2,498	\$	2,560	2.50%
62005	Dues and Membership	\$	83,675	\$	83,675	\$	87,859	\$	92,252	\$	96,864	\$	101,707	\$	106,793	\$	112,133	\$	117,739	\$	123,626	\$	129,807	\$	136,298	5.00%
62007	Director's Fees	\$	35,000	\$	37,000	\$	38,850	\$	40,793	\$	42,832	\$	44,974	\$	47,222	\$	49,584	\$	52,063	\$	54,666	\$	57,399	\$	60,269	5.00%
62008	Educational Expenses	\$	5,000	\$	5,000	\$	5,250	\$	5,513	\$	5,788	\$	6,078	\$	6,381	\$	6,700	\$	7,036	\$	7,387	\$	7,757	\$	8,144	5.00%
62009	Postage and Delivery	\$	3,500	\$	4,000	\$	4,120	\$	4,244	\$	4,371	\$	4,502	\$	4,637	\$	4,776	\$	4,919	\$	5,067	\$	5,219	\$	5,376	3.00%
63010	GI/Property/Auto Insurance Prem	\$	70,000	\$	73,000	\$	76,650	\$	80,483	\$	84,507	\$	88,732	\$	93,169	\$	97,827	\$	102,718	\$	107,854	\$	113,247	\$	118,909	5.00%
63500	Janitorial Expense	\$	9,000	\$	9,500	\$	9,785	\$	10,079	\$	10,381	\$	10,692	\$	11,013	\$	11,343	\$	11,684	\$	12,034	\$	12,395	\$	12,767	3.00%
65002	Mileage Reimbursement Expense	\$	500	\$	500	\$	515	\$	530	\$	546	\$	563	\$	580	\$	597	\$	615	\$	633	\$	652	\$	672	3.00%
66011	Technology Fees and Subscriptions	\$	62,000	\$	65,000	\$	66,950	\$	68,959	\$	71,027	\$	73,158	\$	75,353	\$	77,613	\$	79,942	\$	82,340	\$	84,810	\$	87,355	3.00%
67000	Travel Expense	\$	5,000	\$	5,200	\$	5,356	\$	5,517	\$	5,682	\$	5,853	\$	6,028	\$	6,209	\$	6,395	\$	6,587	\$	6,785	\$	6,988	3.00%
60100	Bank Fees	\$	4,000	\$	4,000	\$	4,120	\$	4,244	\$	4,371	\$	4,502	\$	4,637	\$	4,776	\$	4,919	\$	5,067	\$	5,219	\$	5,376	3.00%
Total Administration		\$	451,675	\$	463,875	\$	480,880	\$	498,571	\$	516,979	\$	536,135	\$	556,072	\$	576,825	\$	598,428	\$	620,920	\$	644,340	\$	668,729	

Professional Services																										
63000	Legal Services	\$	500,000	\$	500,000	\$	414,000	\$	428,490	\$	443,487	\$	459,009	\$	475,075	\$	491,702	\$	508,912	\$	526,724	\$	545,159	\$	564,240	3.50%
63002	Audit and Accounting Services	\$	40,000	\$	42,000	\$	43,470	\$	44,991	\$	46,566	\$	48,196	\$	49,883	\$	51,629	\$	53,436	\$	55,306	\$	57,242	\$	59,245	3.50%
63004	Engineering Services	\$	50,000	\$	52,000	\$	53,820	\$	55,704	\$	57,653	\$	59,671	\$	61,760	\$	63,921	\$	66,159	\$	68,474	\$	70,871	\$	73,351	3.50%
63005	Environmental Consultants	\$	50,000	\$	52,000	\$	53,820	\$	55,704	\$	57,653	\$	59,671	\$	61,760	\$	63,921	\$	66,159	\$	68,474	\$	70,871	\$	73,351	3.50%
63006	Hydrogeology Consultants	\$	100,000	\$	105,000	\$	108,675	\$	112,479	\$	116,415	\$	120,490	\$	124,707	\$	129,072	\$	133,589	\$	138,265	\$	143,104	\$	148,113	3.50%
63007	Other Contracted Services	\$	150,000	\$	155,000	\$	160,425	\$	166,040	\$	171,851	\$	177,866	\$	184,091	\$	190,535	\$	197,203	\$	204,105	\$	211,249	\$	218,643	3.50%
Total Professional Services		\$	890,000	\$	906,000	\$	834,210	\$	863,407	\$	893,627	\$	924,904	\$	957,275	\$	990,780	\$	1,025,457	\$	1,061,348	\$	1,098,495	\$	1,136,943	

Debt Service																										
88100	COP Administration Expense	\$	5,500	\$	10,000	\$	10,700	\$	11,449	\$	12,250	\$	13,108	\$	14,026	\$	15,007	\$	16,058	\$	17,182	\$	18,385	\$	19,672	7.00%
88004	2020 COP Debt Service Expense	\$	3,930,597	\$	3,928,054	\$	3,930,597	\$	3,928,054	\$	3,934,799	\$	3,930,295	\$	3,929,195	\$	2,946,426	\$	2,958,326	\$	2,941,662	\$	2,950,964	\$	2,940,611	0.00%
Total Debt Service		\$	3,936,097	\$	3,938,054	\$	3,941,297	\$	3,939,503	\$	3,947,049	\$	3,943,403	\$	3,943,221	\$	2,961,433	\$	2,974,384	\$	2,958,844	\$	2,969,349	\$	2,960,282	

TOTAL EXPENDITURES		\$	19,823,483	\$	14,890,969	\$	15,793,248	\$	16,475,729	\$	16,948,492	\$	17,402,182	\$	18,339,155	\$	17,801,074	\$	19,223,537	\$	19,938,188	\$	20,448,578	\$	20,959,960	
OPERATING NET (REVENUE - EXPENDITURES)		\$	(1,694,495)	\$	(2,448,930)	\$	(3,166,599)	\$	(3,604,833)	\$	(3,823,242)	\$	(4,011,972)	\$	(3,704,680)	\$	(2,878,818)	\$	(2,164,404)	\$	(2,566,096)	\$	(2,749,964)	\$	(2,920,566)	
CARRYOVER FROM PREVIOUS YEAR		\$	34,582,151	\$	25,812,176	\$	30,421,711	\$	23,465,387	\$	7,828,448	\$	4,144,027	\$	207,784	\$	(3,486,132)	\$	(6,421,083)	\$	(11,960,504)	\$	(17,972,546)	\$	(24,241,491)	

NON-OPERATING REVENUES																										
Other Revenue																										
40511	Non-Reoccurring Water Sales	\$	-	\$	1,000,000	\$	3,250,000	\$	3,250,000	\$	3,250,000	\$	3,250,000	\$	3,250,000	\$	3,250,000	\$	3,250,000	\$	3,250,000	\$	3,250,000	\$	3,250,000	
41000	Other Income	\$	5,000	\$	5,000	\$	5,350	\$	5,725	\$	6,125	\$	6,554	\$	7,013	\$	7,504	\$	8,029	\$	8,591	\$	9,192	\$	9,836	7.00%
41015	COP Income	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7.00%
41010	Grant Income	\$	1,600,000	\$	500,000	\$	750,000	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	
45000	Capital Reimbursement Income	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7.00%
41005	Asset Sale Income	\$	-	\$	10,000,000	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7.00%
Total Non-Operating Revenue		\$	1,605,000	\$	11,505,000	\$	4,005,350	\$	3,255,725	\$	3,256,125	\$	3,256,554	\$	3,257,013	\$	3,257,504	\$	8,029	\$	8,591	\$	9,192	\$	9,836	

TOTAL OPERATING FUNDS AVAILABLE (CURRENT YEAR REVENUE + CARRYOVER)		\$	34,492,656	\$	34,868,246	\$	31,260,462	\$	23,116,279	\$	7,261,332	\$	3,388,609	\$	(239,883)	\$	(3,107,446)	\$	(8,577,458)	\$	(14,518,008)	\$	(20,713,317)	\$	(27,152,221)	
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NON-OPERATING EXPENDITURES																										
61400	Third Party Project Operations Capital Expenditures	\$	4,833,000	\$	128,535	\$	128,535	\$	2,500,000	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	
70000	Capital Water Structure Expense	\$	500,000	\$	500,000	\$	2,030,000	\$	1,100,000	\$	1,133,000	\$	1,166,990	\$	1,202,000	\$	1,238,060	\$	1,275,201	\$	1,313,458	\$	1,352,861	\$	1,393,447	3.00%
70001	Capital Building Expense	\$	75,000	\$	75,000	\$	77,250	\$	79,568	\$	81,955	\$	84,413	\$	86,946	\$	89,554	\$	92,241	\$	95,008	\$	97,858	\$	100,794	3.00%
70100	Capital Booster Pump	\$	50,000	\$	50,000	\$	51,500	\$	53,045	\$	54,636	\$	56,275	\$	57,964	\$	59,703	\$	61,494	\$	63,339	\$	65,239	\$	67,196	3.00%
70101	Capital Well Expenses	\$	1,200,000	\$	1,200,000	\$	4,000,000	\$	300,000	\$	309,000	\$	318,270	\$	327,818	\$	337,653	\$	347,782	\$	358,216	\$	368,962	\$	380,031	3.00%
70200	Capital Engineering Consultants Expense	\$	250,000	\$	250,000	\$	257,500	\$	265,225	\$	273,182	\$	281,377	\$	289,819	\$	298,513	\$	307,468	\$	316,693	\$	326,193	\$	335,979	3.00%
70201	Capital Environmental Consultants Expense	\$	50,000	\$	50,000	\$	51,500	\$	53,045	\$	54,636	\$	56,275	\$	57,964	\$	59,703	\$	61,494	\$	63,339	\$	65,239	\$	67,196	3.00%
70500	Capital Auto and Truck Expense	\$	50,000	\$	50,000	\$	51,500	\$	53,045	\$	54,636	\$	56,275	\$	57,964	\$	59,703	\$	61,494	\$	63,339	\$	65,239	\$	67,196	3.00%
70501	Capital Equipment Expense	\$	120,000	\$	125,000	\$	128,750	\$	132,613																	

Appendix B

PARCEL LIST AND WATER DEMAND ANALYSIS

Kern County Assessor Parcel Number	RRBWS Water Platform Account Number (Owner Name per Kern County Assessor)	Estimated 2022 Total Water Usage (AF) (1)	Kern County Assessed Acres (2)	Estimated Parcel Water Supply vs Use (AF) (3)	Estimated Total Account Water Supply vs Use (AF) (4)	Potential Supplies in Excess of Use (AF) (5)
104-280-40	#10020 (16GC L P)	59.97	18.36	-21.04	-21.04	
103-010-42	#10021 (3&1 FARMS INC)	488.85	156.53	-157.01	-394.05	
103-010-43	#10021 (3&1 FARMS INC)	576.24	160.00	-237.04		
463-120-15	(KAUR PARAMJIT)	8.92	9.55	11.33	11.33	11.33
104-011-38	#10027 (AERA ENERGY LLC)	39.46	37.01	39.00	109.86	109.86
104-011-40	#10027 (AERA ENERGY LLC)	49.64	56.84	70.86		
103-010-18	#10030 (AFFENTRANGER FARMS LLC)	102.93	31.13	-36.94	-247.71	
103-010-19	#10030 (AFFENTRANGER FARMS LLC)	112.29	32.05	-44.34		
103-010-20	#10030 (AFFENTRANGER FARMS LLC)	107.17	31.13	-41.18		
103-010-21	#10030 (AFFENTRANGER FARMS LLC)	54.81	16.03	-20.82		
103-010-25	#10030 (AFFENTRANGER FARMS LLC)	204.04	104.18	16.83		
103-010-28	#10030 (AFFENTRANGER FARMS LLC)	452.30	153.34	-127.22		
103-010-30	#10030 (AFFENTRANGER FARMS LLC)	58.54	16.03	-24.56		
103-010-31	#10030 (AFFENTRANGER FARMS LLC)	64.46	32.05	3.49		
103-010-32	#10030 (AFFENTRANGER FARMS LLC)	221.91	94.32	-21.95		
103-010-39	#10030 (AFFENTRANGER FARMS LLC)	21.19	26.40	34.77		
103-010-40	#10030 (AFFENTRANGER FARMS LLC)	47.34	52.69	64.37		
103-060-05	#10030 (AFFENTRANGER FARMS LLC)	803.29	318.18	-128.75		
463-052-05	#10030 (AFFENTRANGER FARMS LLC)	40.42	38.18	40.52		
463-052-06	#10030 (AFFENTRANGER FARMS LLC)	42.87	38.18	38.07		
103-060-08	#10033 (AFFENTRANGER RANCHES)	214.39	78.00	-49.03	-624.45	
103-060-10	#10033 (AFFENTRANGER RANCHES)	664.26	240.00	-155.46		
103-060-11	#10033 (AFFENTRANGER RANCHES)	224.60	160.00	114.60		
103-060-12	#10033 (AFFENTRANGER RANCHES)	346.73	160.00	-7.53		
103-070-08	#10033 (AFFENTRANGER RANCHES)	351.37	160.00	-12.17		
104-050-01	#10033 (AFFENTRANGER RANCHES)	755.98	217.35	-295.20		
104-050-08	#10033 (AFFENTRANGER RANCHES)	554.30	157.85	-219.66		
104-230-05	#10034 (AGUIRRE JOSE LUIS & MARIA D)	30.35	40.60	55.72	55.72	55.72
103-270-01	#10037 (ALBORZ FARMS L L C)	1,057.14	320.00	-378.74	-378.74	
463-080-09	#10040 (AMENTS A PROPERTIES II LP)	102.12	30.00	-38.52	-168.49	
463-090-26	#10040 (AMENTS A PROPERTIES II LP)	212.55	64.89	-74.98		
463-100-05	#10040 (AMENTS A PROPERTIES II LP)	84.11	26.32	-28.31		
463-110-01	#10040 (AMENTS A PROPERTIES II LP)	69.08	20.00	-26.68		
463-110-22	(AMENTS A PROP II LP)	27.54	8.09	-10.39	-38.63	
463-110-23	(AMENTS A PROP II LP)	74.89	22.00	-28.25		
104-040-18	#10043 (ANDREWS GARY G & PATSY L)	16.60	9.89	4.36	4.36	4.36
407-030-03	#10053 (BAKFLD DEV CO LLC)	11.48	19.55	29.97	62.67	62.67
407-030-04	#10053 (BAKFLD DEV CO LLC)	8.74	19.55	32.70		
407-320-25	#10054 (BARMAN FAMILY REVOCABLE TRUST)	23.32	10.40	-1.28	-1.28	
408-250-24	#10058 (BARRON ALBERT W)	9.73	9.62	10.66	10.66	10.66
407-112-06	#10069 (BELLA ROSA ORCHARDS LLC)	145.29	39.09	-62.42	-62.42	
103-150-07-01-4	#10071 (GGA REDDY FAMILY L P)	83.31	131.02	194.45	194.45	194.45
103-150-07-02-3	#10073 (BELLUOMINI RANCHES LP)	16.66	26.20	38.88	-305.22	
103-180-01	#10072 (BELLUOMINI RANCHES L P)	336.83	160.00	2.37		
103-110-02	#10073 (BELLUOMINI RANCHES LP)	178.03	80.00	-8.43		
103-110-04	#10073 (BELLUOMINI RANCHES LP)	92.72	40.00	-7.92		
103-110-09	#10073 (BELLUOMINI RANCHES LP)	89.11	40.00	-4.31		
103-120-15	#10073 (BELLUOMINI RANCHES LP)	36.08	21.49	9.48		
103-120-17	#10073 (BELLUOMINI RANCHES LP)	30.07	15.06	1.85		
103-130-03	#10073 (BELLUOMINI RANCHES LP)	9.21	5.00	1.39		
103-140-02	#10073 (BELLUOMINI RANCHES LP)	100.85	40.00	-16.05		
103-140-12	#10073 (BELLUOMINI RANCHES LP)	504.24	158.62	-167.96		
103-140-19	#10073 (BELLUOMINI RANCHES LP)	61.80	28.19	-2.04		
103-170-41	#10073 (BELLUOMINI RANCHES LP)	6.02	10.14	15.47		
103-180-05	#10073 (BELLUOMINI RANCHES LP)	218.33	80.00	-48.73		
103-180-07	#10073 (BELLUOMINI RANCHES LP)	436.32	160.00	-97.12		
103-190-13	#10073 (BELLUOMINI RANCHES LP)	60.29	21.88	-13.90		
103-200-23	#10073 (BELLUOMINI RANCHES LP)	70.16	30.45	-5.60		
103-200-25	#10073 (BELLUOMINI RANCHES LP)	13.23	5.30	-2.00		
103-140-17	#10704 (BELLUMONI RANCHES LP)	21.98	10.08	-0.61		
104-040-16	#10078 (BERMUDEZ ARTHUR & DESIREE)	15.71	9.89	5.26	5.26	5.26

Kern County Assessor Parcel Number	RRBWS Water Platform Account Number (Owner Name per Kern County Assessor)	Estimated 2022 Total Water Usage (AF) (1)	Kern County Assessed Acres (2)	Estimated Parcel Water Supply vs Use (AF) (3)	Estimated Total Account Water Supply vs Use (AF) (4)	Potential Supplies in Excess of Use (AF) (5)
104-250-20	#10081 (BIDART DAIRY III LLC)	11.62	5.02	-0.98	-211.59	
104-250-21	#10081 (BIDART DAIRY III LLC)	26.56	9.98	-5.41		
104-280-01	#10081 (BIDART DAIRY III LLC)	107.22	36.59	-29.65		
104-280-07	#10081 (BIDART DAIRY III LLC)	793.06	318.18	-118.52		
104-280-19	#10081 (BIDART DAIRY III LLC)	52.58	20.12	-9.93		
104-280-24	#10081 (BIDART DAIRY III LLC)	57.88	20.13	-15.21		
104-280-25	#10081 (BIDART DAIRY III LLC)	55.91	19.71	-14.12		
104-280-27	#10081 (BIDART DAIRY III LLC)	60.42	20.12	-17.77		
104-072-13	#10088 (BLOEMER ESTATE LP)	136.28	47.74	-35.07	-41.39	
104-072-14	#10088 (BLOEMER ESTATE LP)	27.52	10.00	-6.32		
104-012-03	#10092 (BOLTHOUSE LAND CO LLC)	123.86	127.73	146.93	319.50	319.50
104-012-06	#10092 (BOLTHOUSE LAND CO LLC)	53.35	60.00	73.85		
104-012-19	#10092 (BOLTHOUSE LAND CO LLC)	34.98	40.00	49.82		
104-012-20	#10092 (BOLTHOUSE LAND CO LLC)	35.90	40.00	48.90		
407-112-09	#10093 (BONDEROV WILLIAM KEVIN)	13.04	9.62	7.36	16.43	16.43
407-112-11	#10093 (BONDEROV WILLIAM KEVIN)	11.34	9.63	9.07		
104-071-25	#10094 (BONE FAMILY TRUST)	248.09	72.88	-93.59	-93.59	
103-150-13	#10095 (BOOZER FAMILY L P)	8.59	13.46	19.94	19.94	19.94
104-280-28	#10098 (BOS LEGACY L P)	60.02	19.65	-18.37	-134.26	
104-280-29	#10098 (BOS LEGACY L P)	64.89	19.65	-23.24		
104-280-30	#10098 (BOS LEGACY L P)	63.28	20.12	-20.62		
104-280-31	#10098 (BOS LEGACY L P)	54.72	20.13	-12.05		
104-280-32	#10098 (BOS LEGACY L P)	53.67	18.74	-13.94		
104-280-33	#10098 (BOS LEGACY L P)	59.35	19.66	-17.67		
104-280-34	#10098 (BOS LEGACY L P)	58.91	19.66	-17.23		
104-280-35	#10098 (BOS LEGACY L P)	52.87	19.68	-11.15		
407-112-14	#10101 (BRIMHALL RANCH LLC)	33.05	10.07	-11.70	-115.34	
407-112-17	#10101 (BRIMHALL RANCH LLC)	33.08	10.08	-11.72		
407-112-19	#10101 (BRIMHALL RANCH LLC)	259.59	79.09	-91.92		
103-060-04	#10112 (BUSHNELL JON R & JULIA BUSHNELL FAMILY TRUST)	1,057.94	318.18	-383.39	-383.39	
103-150-11	#10114 (BUTTONWILLOW LAND & CATTLE CO)	12.69	18.92	27.42	132.01	132.01
103-150-14	#10114 (BUTTONWILLOW LAND & CATTLE CO)	5.66	9.86	15.25		
103-170-04	#10114 (BUTTONWILLOW LAND & CATTLE CO)	10.68	18.93	29.46		
103-170-06	#10114 (BUTTONWILLOW LAND & CATTLE CO)	52.81	80.00	116.79		
103-170-08	#10114 (BUTTONWILLOW LAND & CATTLE CO)	18.16	36.00	58.16		
104-300-04	#10114 (BUTTONWILLOW LAND & CATTLE CO)	728.92	289.55	-115.07		
463-080-04	#10117 (CALDER PATTY A)	8.01	9.91	13.00	13.00	13.00
103-150-03	#10120 (CALIFORNIA PISTACHIO INC)	399.97	160.00	-60.77	-60.77	
104-210-05	#10127 (CAUZZA ALMONDS L P)	602.35	156.36	-270.87	-518.74	
104-220-01	#10127 (CAUZZA ALMONDS L P)	579.36	156.36	-247.88		
104-071-26	#10129 (CAUZZA RANCHES L L C)	76.78	25.30	-23.14	-824.52	
104-071-27	#10129 (CAUZZA RANCHES L L C)	70.99	22.30	-23.71		
104-071-28	#10129 (CAUZZA RANCHES L L C)	69.63	22.85	-21.19		
104-210-42	#10129 (CAUZZA RANCHES L L C)	17.96	4.73	-7.93		
104-210-43	#10129 (CAUZZA RANCHES L L C)	27.07	6.57	-13.14		
104-210-44	#10129 (CAUZZA RANCHES L L C)	45.01	11.17	-21.33		
104-210-45	#10129 (CAUZZA RANCHES L L C)	59.40	15.31	-26.94		
104-210-46	#10129 (CAUZZA RANCHES L L C)	72.85	19.45	-31.62		
104-210-48	#10129 (CAUZZA RANCHES L L C)	65.75	19.26	-24.92		
104-210-49	#10129 (CAUZZA RANCHES L L C)	55.33	16.07	-21.26		
104-210-50	#10129 (CAUZZA RANCHES L L C)	59.31	16.07	-25.24		
104-210-51	#10129 (CAUZZA RANCHES L L C)	78.45	22.52	-30.71		
104-210-52	#10129 (CAUZZA RANCHES L L C)	44.45	14.48	-13.76		
103-150-20	#10130 (CAUZZA RANCHES LLC)	102.25	41.41	-14.46		
104-080-42	#10130 (CAUZZA RANCHES LLC)	401.91	116.97	-153.93		
104-210-39	#10130 (CAUZZA RANCHES LLC)	265.46	81.56	-92.55		
104-220-11	#10130 (CAUZZA RANCHES LLC)	190.49	60.03	-63.23		
104-220-12	#10130 (CAUZZA RANCHES LLC)	550.61	158.09	-215.46		
104-060-49	#10138 (CHERNABAEFF GEORGE)	27.11	20.03	15.36	15.36	15.36
463-052-19	#10149 (COOMBS FAMILY TR)	42.48	37.46	36.93	36.93	36.93
104-090-38	#10159 (COX FAMILY TRUST)	59.67	19.09	-19.20	-19.20	

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103-170-10	#10162 (CRUZ ANTONIO V & CARLOTA G REV TRUST)	18.32	32.95	51.53	51.53	51.53
408-250-18	#10168 (DELFINO BAKERSFIELD LLC)	20.00	9.33	-0.22	-4.65	
408-250-19	#10168 (DELFINO BAKERSFIELD LLC)	22.80	9.83	-1.96		
408-250-20	#10168 (DELFINO BAKERSFIELD LLC)	22.94	9.83	-2.10		
408-250-21	#10168 (DELFINO BAKERSFIELD LLC)	19.32	8.94	-0.37		
104-071-06	#10169 (DEMETER AGRICULTURAL PROP II LLC)	70.18	39.09	12.69	112.51	112.51
104-071-10	#10169 (DEMETER AGRICULTURAL PROP II LLC)	313.08	178.18	64.66		
104-071-11	#10169 (DEMETER AGRICULTURAL PROP II LLC)	36.85	20.00	5.55		
104-071-14	#10169 (DEMETER AGRICULTURAL PROP II LLC)	103.35	58.18	19.99		
104-071-18	#10169 (DEMETER AGRICULTURAL PROP II LLC)	30.86	19.09	9.61		
104-090-10	#10172 (DHALIWAL NIRMAL S)	184.80	99.09	25.27	25.27	25.27
104-080-23	#10173 (DIAMOND FARMING CO)	128.92	88.58	58.87	58.87	58.87
104-292-09	#10175 (DILLARD LONNIE)	43.72	49.90	62.07	62.07	62.07
104-011-10	#10180 (DOOLITTLE FAMILY TRUST)	13.87	9.55	6.38	6.38	6.38
104-240-29	#10181 (DOUBLE H L P)	111.16	78.18	54.58	68.14	68.14
104-240-46	#10181 (DOUBLE H L P)	43.43	26.88	13.56		
407-112-16	#10187 (DUNLAVEY J&D FAMILY TRUST)	15.03	9.63	5.39	5.39	5.39
104-240-17	#10188 (ECB BAKERSFIELD PROPERTIES INC)	119.71	46.89	-20.30	-20.30	
104-060-09	#10189 (ECHEVERRIA JUAN & DOLORES FAMILY TRUST)	121.40	30.00	-57.80	-651.21	
104-060-10	#10189 (ECHEVERRIA JUAN & DOLORES FAMILY TRUST)	43.17	10.00	-21.97		
104-060-11	#10189 (ECHEVERRIA JUAN & DOLORES FAMILY TRUST)	412.55	98.18	-204.41		
104-060-12	#10189 (ECHEVERRIA JUAN & DOLORES FAMILY TRUST)	80.07	18.75	-40.32		
104-060-14	#10189 (ECHEVERRIA JUAN & DOLORES FAMILY TRUST)	665.91	160.00	-326.71		
104-040-06	#10190 (ECHEVERRIA JUAN & DOLORES TRUST)	151.59	39.09	-68.72	-664.94	
104-040-07	#10190 (ECHEVERRIA JUAN & DOLORES TRUST)	332.29	80.00	-162.69		
104-040-08	#10190 (ECHEVERRIA JUAN & DOLORES TRUST)	162.97	39.09	-80.09		
104-040-09	#10190 (ECHEVERRIA JUAN & DOLORES TRUST)	76.12	19.54	-34.69		
104-040-11	#10190 (ECHEVERRIA JUAN & DOLORES TRUST)	329.61	80.00	-160.01		
104-040-14	#10190 (ECHEVERRIA JUAN & DOLORES TRUST)	327.36	79.54	-158.73		
104-030-04	#10191 (ELK GROVE RANCH CO)	325.85	79.09	-158.18	-158.18	
104-080-18	#10195 (ENNS 2016 TRUST)	142.20	39.09	-59.33	-482.15	
104-080-31	#10195 (ENNS 2016 TRUST)	279.27	79.09	-111.60		
104-080-32	#10195 (ENNS 2016 TRUST)	24.49	20.10	18.13		
104-080-33	#10195 (ENNS 2016 TRUST)	27.12	20.10	15.50		
104-080-34	#10195 (ENNS 2016 TRUST)	28.22	19.64	13.42		
104-080-35	#10195 (ENNS 2016 TRUST)	27.62	19.64	14.02		
104-280-18	#10195 (ENNS 2016 TRUST)	868.16	236.36	-367.07		
104-291-06	#10195 (ENNS 2016 TRUST)	17.20	5.66	-5.20		
104-291-30	#10207 (FANUCCHI ANGELO & HAZEL TRUST)	69.24	19.75	-27.37	-286.74	
104-291-31	#10207 (FANUCCHI ANGELO & HAZEL TRUST)	71.22	19.74	-29.37		
104-291-32	#10207 (FANUCCHI ANGELO & HAZEL TRUST)	121.02	34.21	-48.49		
104-291-34	#10207 (FANUCCHI ANGELO & HAZEL TRUST)	293.55	78.77	-126.56		
104-420-12	#10207 (FANUCCHI ANGELO & HAZEL TRUST)	18.63	5.00	-8.03		
104-420-13	#10207 (FANUCCHI ANGELO & HAZEL TRUST)	18.63	5.00	-8.03		
104-420-14	#10207 (FANUCCHI ANGELO & HAZEL TRUST)	18.63	5.00	-8.03		
104-420-15	#10207 (FANUCCHI ANGELO & HAZEL TRUST)	71.55	19.20	-30.85		
104-420-06	(FANUCCHI LARRY ET AL)	18.60	4.99	-8.02	-64.24	
104-420-07	(FANUCCHI LARRY ET AL)	18.60	4.99	-8.02		
104-420-08	(FANUCCHI LARRY ET AL)	37.27	10.00	-16.07		
104-420-09	(FANUCCHI LARRY ET AL)	74.53	20.00	-32.13		
103-110-01	#10210 (FARMERS COOPERATIVE GIN INC)	66.20	60.00	61.00	209.89	209.89
103-120-13	#10210 (FARMERS COOPERATIVE GIN INC)	47.99	54.22	66.95		
103-120-30	#10210 (FARMERS COOPERATIVE GIN INC)	136.39	102.98	81.93		
103-270-42	#10215 (FEUERSTEIN LEWIS G)	53.87	19.05	-13.48	-24.78	
103-270-44	#10215 (FEUERSTEIN LEWIS G)	69.43	27.42	-11.30		
408-250-05	#10220 (FLEISHAUER HAROLD R TR)	126.62	39.09	-43.75	-43.75	
407-112-13	#10236 (GALVAN VICTOR M & ANA DEISY)	14.78	10.07	6.57	6.57	6.57
104-080-28	#10239 (GARDINER FAMILY LLC)	262.66	70.33	-113.56	-195.11	
104-080-48	#10239 (GARDINER FAMILY LLC)	166.77	40.20	-81.55		
104-080-39	#10240 (GARDINER JOHN T REVOCABLE TRUST)	641.96	155.70	-311.88	-402.73	
104-230-01	#10240 (GARDINER JOHN T REVOCABLE TRUST)	196.03	49.61	-90.85		

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104-080-21	#10241 (GARDINER KEITH B IRR TR)	169.24	40.41	-83.57	-475.72	
104-080-24	#10241 (GARDINER KEITH B IRR TR)	503.12	120.41	-247.85		
463-060-04	#10241 (GARDINER KEITH B IRR TR)	314.36	80.22	-144.30		
463-060-23	#10242 (GARDINER KEITH B TRUST)	89.01	80.49	81.63	254.19	254.19
463-070-06	#10242 (GARDINER KEITH B TRUST)	158.51	158.98	178.53		
463-070-07	#10242 (GARDINER KEITH B TRUST)	256.32	80.00	-86.72		
463-070-11	#10242 (GARDINER KEITH B TRUST)	84.99	78.18	80.75		
104-090-42	#10243 (GARDINER LIVING TRUST)	139.56	39.27	-56.31	-56.31	
104-050-02	#10252 (GLOBAL AG PROP USA LLC)	161.30	40.00	-76.50		
104-050-03	#10252 (GLOBAL AG PROP USA LLC)	245.87	60.00	-118.67	-2,497.60	
104-050-07	#10252 (GLOBAL AG PROP USA LLC)	669.63	161.54	-327.17		
104-050-10	#10252 (GLOBAL AG PROP USA LLC)	155.44	40.10	-70.43		
104-050-11	#10252 (GLOBAL AG PROP USA LLC)	151.20	40.10	-66.19		
104-050-12	#10252 (GLOBAL AG PROP USA LLC)	146.43	40.10	-61.42		
104-050-14	#10252 (GLOBAL AG PROP USA LLC)	164.27	40.11	-79.24		
104-050-15	#10252 (GLOBAL AG PROP USA LLC)	161.39	40.10	-76.38		
104-050-16	#10252 (GLOBAL AG PROP USA LLC)	165.97	40.11	-80.93		
104-050-17	#10252 (GLOBAL AG PROP USA LLC)	163.15	40.10	-78.14		
104-050-18	#10252 (GLOBAL AG PROP USA LLC)	162.82	40.10	-77.81		
104-050-19	#10252 (GLOBAL AG PROP USA LLC)	163.32	40.10	-78.31		
104-050-20	#10252 (GLOBAL AG PROP USA LLC)	149.26	40.08	-64.29		
104-050-21	#10252 (GLOBAL AG PROP USA LLC)	158.58	40.10	-73.57		
104-050-22	#10252 (GLOBAL AG PROP USA LLC)	149.98	40.08	-65.01		
104-050-23	#10252 (GLOBAL AG PROP USA LLC)	157.28	40.08	-72.31		
104-050-24	#10252 (GLOBAL AG PROP USA LLC)	159.59	40.08	-74.62		
104-050-25	#10252 (GLOBAL AG PROP USA LLC)	157.22	40.08	-72.25		
104-050-27	#10252 (GLOBAL AG PROP USA LLC)	153.21	40.07	-68.26		
104-100-03	#10252 (GLOBAL AG PROP USA LLC)	320.63	79.77	-151.52		
104-100-09	#10252 (GLOBAL AG PROP USA LLC)	310.74	78.58	-144.15		
104-100-11	#10252 (GLOBAL AG PROP USA LLC)	1,268.32	316.69	-596.94		
103-150-08	#10259 (GOOSELAKE HOLDING CO)	251.98	150.90	67.93	251.44	251.44
103-150-09	#10259 (GOOSELAKE HOLDING CO)	100.07	62.90	33.28		
103-160-02	#10259 (GOOSELAKE HOLDING CO)	199.57	160.00	139.63		
103-160-05	#10259 (GOOSELAKE HOLDING CO)	7.72	9.79	13.03		
103-160-09	#10259 (GOOSELAKE HOLDING CO)	6.17	10.00	15.03		
103-160-11	#10259 (GOOSELAKE HOLDING CO)	287.92	180.00	93.68		
103-160-13	#10259 (GOOSELAKE HOLDING CO)	132.79	73.93	23.94		
103-160-16	#10259 (GOOSELAKE HOLDING CO)	99.97	40.00	-15.17		
103-170-46	#10259 (GOOSELAKE HOLDING CO)	610.60	231.45	-119.93		
408-011-59	#10260 (GOOSELAKE RANCH LLC)	43.86	16.73	-8.39	-32.16	
408-011-63	#10260 (GOOSELAKE RANCH LLC)	140.94	55.27	-23.77		
104-230-12	#10265 (GRAYSON BOB W SR & CAROL A)	20.85	19.62	20.75	20.75	20.75
407-320-10	#10266 (GRAYSON BOBBY & CAROL ANN LIVING TRUST)	19.81	24.44	32.00	32.00	32.00
104-100-05	#10272 (GRIMMWAY ENTERPRISES INC)	88.76	74.90	70.03	132.14	132.14
104-100-12	#10272 (GRIMMWAY ENTERPRISES INC)	101.60	77.22	62.11		
407-060-02	#10283 (HART KRISTIN MICHELLE)	12.21	9.67	8.29	8.29	8.29
103-010-36	#10288 (HB AG INVS LLC)	1,281.36	317.43	-608.40	-1,010.60	
104-030-05	#10288 (HB AG INVS LLC)	284.74	79.09	-117.07		
104-060-05	#10288 (HB AG INVS LLC)	136.57	39.09	-53.70		
104-060-26	#10288 (HB AG INVS LLC)	66.16	19.55	-24.72		
104-060-27	#10288 (HB AG INVS LLC)	66.40	19.55	-24.95		
104-090-03	#10288 (HB AG INVS LLC)	14.51	10.00	6.69		
104-090-04	#10288 (HB AG INVS LLC)	48.28	19.55	-6.83		
104-090-05	#10288 (HB AG INVS LLC)	42.64	19.55	-1.20		
104-090-06	#10288 (HB AG INVS LLC)	46.58	37.18	32.24		
104-090-08	#10288 (HB AG INVS LLC)	44.31	30.00	19.29		
104-090-31	#10288 (HB AG INVS LLC)	46.81	16.16	-12.55		
104-090-39	#10288 (HB AG INVS LLC)	71.72	19.09	-31.25		
104-090-40	#10288 (HB AG INVS LLC)	71.13	19.09	-30.66		
104-240-32	#10288 (HB AG INVS LLC)	126.29	44.37	-32.23		
104-240-33	#10288 (HB AG INVS LLC)	460.70	158.22	-125.27		

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104-011-15	#10289 (HEIN MARTIN)	49.47	19.55	-8.03	-8.03	
103-070-10	#10298 (HIGHWAY 58 LLC)	284.28	157.36	49.32	314.62	314.62
104-200-01	#10298 (HIGHWAY 58 LLC)	374.49	301.79	265.30		
463-052-18	#10304 (HINESLEY FAMILY TRUST)	11.51	19.55	29.93	91.52	91.52
463-120-18	#10304 (HINESLEY FAMILY TRUST)	16.84	20.00	25.56		
463-120-43	#10304 (HINESLEY FAMILY TRUST)	27.60	30.01	36.02		
408-011-34	#10314 (HOWES PATRICK & LISA)	18.13	18.83	21.79	21.79	21.79
104-030-20	#10323 (J & R DAIRY)	33.47	9.23	-13.90	-65.30	
104-030-47	#10323 (J & R DAIRY)	23.90	7.22	-8.59		
104-030-49	#10323 (J & R DAIRY)	115.34	34.21	-42.81		
463-051-17	#10324 (J C F A)	73.54	41.03	13.45	13.45	13.45
104-250-19	#10332 (JEANETTE FAST L P)	26.56	9.47	-6.48	-50.59	
408-122-09	#10332 (JEANETTE FAST L P)	139.66	39.09	-56.79		
463-160-18	#10332 (JEANETTE FAST L P)	18.14	20.00	24.26		
407-011-08	#10332 (JEANETTE FAST L P)	31.43	9.36	-11.58		
104-280-09	#10333 (JEANETTE FAST LIMINTED PTP LP)	443.07	160.00	-103.87	-512.07	
104-280-12	#10333 (JEANETTE FAST LIMINTED PTP LP)	218.02	80.00	-48.42		
104-300-01	#10333 (JEANETTE FAST LIMINTED PTP LP)	782.13	237.45	-278.74		
104-300-03	#10333 (JEANETTE FAST LIMINTED PTP LP)	65.14	39.02	17.58		
407-011-10	#10333 (JEANETTE FAST LIMINTED PTP LP)	256.39	76.36	-94.50		
407-112-05	#10334 (JEANETTE FAST LIMITED PARTNERSHIP LP)	87.96	39.55	-4.12		
407-120-02	#10335 (JELMINI FAMILY TRUST)	61.32	18.63	-21.83	-21.83	
495-020-05	#10340 (JHAJ RUPINDER)	8.88	9.95	12.21	12.21	12.21
104-030-15	#10353 (JUAN & DOLORES ECHEVERRIA FAMILY PTP)	131.18	37.43	-51.82	-182.46	
104-030-16	#10353 (JUAN & DOLORES ECHEVERRIA FAMILY PTP)	31.89	8.94	-12.94		
104-030-17	#10353 (JUAN & DOLORES ECHEVERRIA FAMILY PTP)	133.75	39.40	-50.22		
104-030-27	#10353 (JUAN & DOLORES ECHEVERRIA FAMILY PTP)	97.85	29.67	-34.95		
104-030-28	#10353 (JUAN & DOLORES ECHEVERRIA FAMILY PTP)	95.02	29.48	-32.52		
104-072-45	#10358 (KERN COMMUN COLL DIST)	215.50	73.17	-60.38	-240.34	
104-072-58	#10358 (KERN COMMUN COLL DIST)	501.96	151.89	-179.96		
463-150-45	#10359 (KERN LAND PARTNERS LLC)	24.28	36.14	52.33	75.79	75.79
464-021-01	#10359 (KERN LAND PARTNERS LLC)	16.06	18.64	23.45		
104-072-05	#10362 (KIM JEAN EUN)	24.00	19.72	17.81	17.81	17.81
104-072-16	#10365 (KOPPS HENRIETTA TR)	10.82	19.55	30.63	30.63	30.63
103-170-42	#10366 (KOSAREFF EDWARD & KATHERINE)	106.43	62.52	26.11	-479.36	
103-260-03	#10366 (KOSAREFF EDWARD & KATHERINE)	284.48	120.00	-30.08		
103-260-09	#10366 (KOSAREFF EDWARD & KATHERINE)	160.72	40.00	-75.92		
103-260-17	#10366 (KOSAREFF EDWARD & KATHERINE)	112.48	39.29	-29.18		
103-260-21	#10366 (KOSAREFF EDWARD & KATHERINE)	86.88	25.94	-31.89		
103-260-24	#10366 (KOSAREFF EDWARD & KATHERINE)	33.83	9.39	-13.92		
103-260-27	#10366 (KOSAREFF EDWARD & KATHERINE)	406.11	110.36	-172.14		
103-270-33	#10366 (KOSAREFF EDWARD & KATHERINE)	153.28	51.80	-43.46		
103-270-38	#10366 (KOSAREFF EDWARD & KATHERINE)	306.92	140.68	-8.68		
103-270-43	#10366 (KOSAREFF EDWARD & KATHERINE)	270.94	80.54	-100.20		
103-150-10	#10367 (KOSAREFF EDWARD J & KATHERINE)	40.95	38.78	41.26	187.11	187.11
103-170-09	#10367 (KOSAREFF EDWARD J & KATHERINE)	25.38	27.27	32.43		
103-170-15	#10367 (KOSAREFF EDWARD J & KATHERINE)	220.07	160.00	119.13		
103-170-17	#10367 (KOSAREFF EDWARD J & KATHERINE)	29.02	17.41	7.89		
103-180-02	#10367 (KOSAREFF EDWARD J & KATHERINE)	775.84	319.61	-98.27		
103-270-06	#10367 (KOSAREFF EDWARD J & KATHERINE)	146.22	118.52	105.05		
103-270-13	#10367 (KOSAREFF EDWARD J & KATHERINE)	13.55	10.36	8.42		
103-270-23	#10367 (KOSAREFF EDWARD J & KATHERINE)	31.44	19.09	9.04		
103-270-26	#10367 (KOSAREFF EDWARD J & KATHERINE)	272.91	150.94	47.08		
103-270-27	#10367 (KOSAREFF EDWARD J & KATHERINE)	57.75	19.69	-16.01		
103-270-28	#10367 (KOSAREFF EDWARD J & KATHERINE)	59.96	19.68	-18.24		
103-270-29	#10367 (KOSAREFF EDWARD J & KATHERINE)	57.01	19.67	-15.31		
103-270-30	#10367 (KOSAREFF EDWARD J & KATHERINE)	58.12	19.66	-16.44		
103-270-31	#10367 (KOSAREFF EDWARD J & KATHERINE)	58.39	19.85	-16.31		
103-270-32	#10367 (KOSAREFF EDWARD J & KATHERINE)	87.38	39.98	-2.62		
104-072-08	#10382 (LIMA MICHAEL WAYNE TR)	55.91	19.76	-14.02	-14.02	
104-030-21	#10383 (LIMA MICHAEL WAYNE TRUST)	47.99	14.80	-16.61	-37.40	

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104-030-22	#10383 (LIMA MICHAEL WAYNE TRUST)	44.42	14.50	-13.68		
104-030-23	#10383 (LIMA MICHAEL WAYNE TRUST)	20.32	7.90	-3.57		
104-030-24	#10383 (LIMA MICHAEL WAYNE TRUST)	29.83	12.40	-3.54		
103-170-16	#10384 (LIN NANETTE)	9.37	14.13	20.58	20.58	20.58
463-080-01	(VASQUEZ RENE & LETICIA)	6.53	10.08	14.84	14.84	14.84
103-270-14	#10406 (MANSOUR RAMZI)	24.63	29.59	38.10	38.10	38.10
103-010-37	#10411 (MARTINEZ MAGDALENO & VIRGINIA)	13.65	19.56	27.82	27.82	27.82
104-292-13	#10417 (MATUK DAVID & R TR)	5.98	11.02	17.38	17.38	17.38
104-240-26	#10422 (MC CASLIN MARC)	16.93	10.03	4.33	-370.04	
104-240-52	#10422 (MC CASLIN MARC)	57.52	20.78	-13.47		
104-240-53	#10422 (MC CASLIN MARC)	67.36	20.00	-24.96		
104-260-08	#10422 (MC CASLIN MARC)	77.26	36.71	0.57		
104-270-28	#10422 (MC CASLIN MARC)	1,009.74	317.56	-336.51		
407-040-04	#10431 (MC WILLIAMS ELLEN F TR)	22.66	19.55	18.78	18.78	18.78
104-270-03	#10442 (MITCHEL CARYL C CHARITABLE REM TR)	33.03	78.18	132.71	132.71	132.71
407-320-15	(PETERSON MARK E & HOLLY J)	24.84	17.60	12.47	12.47	12.47
463-052-07	#10462 (NOWEST LAND & DEV LLC)	24.22	17.09	12.01	12.01	12.01
463-160-11	#10464 (O CONNELL INVESTMENTS LLC)	57.52	19.55	-16.08	-39.93	
463-160-13	#10464 (O CONNELL INVESTMENTS LLC)	25.96	10.00	-4.76		
463-160-53	#10464 (O CONNELL INVESTMENTS LLC)	10.15	4.25	-1.14		
463-160-55	#10464 (O CONNELL INVESTMENTS LLC)	71.82	25.41	-17.95		
104-030-34	#10468 (OGORKIEWICZ ALICJA)	24.27	19.95	18.03	32.24	32.24
104-030-35	#10468 (OGORKIEWICZ ALICJA)	28.08	19.95	14.22		
408-012-03	#10476 (PALLA DONALD RALPH GST TRUST)	27.50	37.68	52.38	52.38	52.38
104-030-06	#10479 (PANDOL BROS INC)	330.25	110.81	-95.33	-95.33	
104-220-04	#10480 (PARAMOUNT LAND CO II LLC)	1,099.46	318.18	-424.92	-1,138.62	
407-111-01	#10480 (PARAMOUNT LAND CO II LLC)	538.65	156.36	-207.16		
407-111-40	#10480 (PARAMOUNT LAND CO II LLC)	281.81	156.36	49.68		
407-112-23	#10480 (PARAMOUNT LAND CO II LLC)	267.46	75.04	-108.38		
408-121-06	#10480 (PARAMOUNT LAND CO II LLC)	560.75	159.82	-221.93		
408-121-07	#10480 (PARAMOUNT LAND CO II LLC)	565.42	160.15	-225.90		
408-122-65	#10488 (PENSINGER MICHAEL M)	11.32	9.66	9.16	9.16	9.16
104-060-63	#10490 (PFLUGH JAMES K)	62.60	40.07	22.35	22.35	22.35
104-220-19	#10492 (PHAM VENTURE LLC)	37.09	19.70	4.68	84.67	84.67
104-220-20	#10492 (PHAM VENTURE LLC)	34.04	19.70	7.72		
104-220-23	#10492 (PHAM VENTURE LLC)	27.78	19.26	13.05		
104-220-24	#10492 (PHAM VENTURE LLC)	25.85	20.17	16.91		
104-220-25	#10492 (PHAM VENTURE LLC)	26.22	20.17	16.54		
104-220-26	#10492 (PHAM VENTURE LLC)	29.56	20.16	13.18		
104-220-29	#10492 (PHAM VENTURE LLC)	28.69	19.47	12.58		
104-060-55	#10505 (PREMIERE PARTNERS IV L P)	305.95	80.36	-135.58	-525.23	
104-060-56	#10505 (PREMIERE PARTNERS IV L P)	228.95	60.30	-101.12		
104-060-57	#10505 (PREMIERE PARTNERS IV L P)	78.82	20.10	-36.20		
104-060-58	#10505 (PREMIERE PARTNERS IV L P)	593.33	160.85	-252.33		
103-120-29	#10508 (PROLOGIS)	11.10	17.39	25.77	25.77	25.77
407-112-27	#10509 (PTM PROP LLC)	102.26	34.61	-28.88	-28.88	
463-160-01	#10511 (R & G FARMS)	118.23	58.64	6.08	6.08	6.08
103-180-08	#10512 (RAAVIZ FARMS L L C)	545.45	160.00	-206.25	-542.35	
103-190-15	#10512 (RAAVIZ FARMS L L C)	26.13	8.37	-8.38		
103-190-20	#10512 (RAAVIZ FARMS L L C)	385.89	114.16	-143.87		
103-240-11	#10512 (RAAVIZ FARMS L L C)	78.11	23.83	-27.59		
103-260-30	#10512 (RAAVIZ FARMS L L C)	412.20	120.73	-156.26		
104-200-03	#10514 (RECOT INC)	1,029.74	634.00	314.34	314.34	314.34
104-420-03	#10515 (RED E LLC)	548.28	135.95	-260.07	-260.07	
104-420-16	#10516 (RED HOUSE MEATS LLC)	66.21	19.86	-24.11	-28.83	
104-420-17	#10516 (RED HOUSE MEATS LLC)	15.08	4.89	-4.72		
104-011-43	#10521 (RIO BRAVO LAND CO LLC)	345.68	96.65	-140.78	-435.37	
104-011-45	#10521 (RIO BRAVO LAND CO LLC)	73.29	19.65	-31.63		
104-011-46	#10521 (RIO BRAVO LAND CO LLC)	68.00	17.86	-30.14		
104-071-02	#10521 (RIO BRAVO LAND CO LLC)	305.97	77.25	-142.20		
104-071-22	#10521 (RIO BRAVO LAND CO LLC)	203.87	53.42	-90.62		

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104-030-10	#10538 (ROMANCE JOSEPH P)	104.44	36.18	-27.74	-194.50	
104-030-11	#10538 (ROMANCE JOSEPH P)	367.12	116.49	-120.16		
104-080-19	#10539 (ROMANCE JOSEPH P & PAMALA)	127.54	38.18	-46.59		
104-060-28	#11044 (B&E ROMANINI INVESTMENTS LP)	127.59	38.18	-46.65	-118.86	
104-080-01	#11044 (B&E ROMANINI INVESTMENTS LP)	44.37	28.42	15.88		
104-080-11	#11044 (B&E ROMANINI INVESTMENTS LP)	176.65	58.64	-52.33		
104-080-12	#11044 (B&E ROMANINI INVESTMENTS LP)	62.07	29.33	0.11		
463-051-13	#11044 (B&E ROMANINI INVS LTD PTP)	137.06	47.73	-35.87		
104-060-59	#10541 (ROMANINI FAMILY L P)	918.22	237.33	-415.08	-415.08	
104-030-03	#10543 (ROMANINI MARK V)	137.24	37.04	-58.72	-58.72	
104-240-18	#10550 (ROSEDALE KERN PROP LLC)	224.33	306.33	425.09	425.09	425.09
104-060-02	#10559 (RTS ORCHARDS LLC)	158.33	40.00	-73.53	-276.72	
104-060-03	#10559 (RTS ORCHARDS LLC)	78.71	20.00	-36.31		
104-060-41	#10559 (RTS ORCHARDS LLC)	76.43	20.00	-34.03		
407-112-07	#10559 (RTS ORCHARDS LLC)	300.53	79.09	-132.86		
104-030-31	#10571 (SANDRIDGE PARTNERS L P)	130.68	39.09	-47.81	-101.74	
104-030-32	#10571 (SANDRIDGE PARTNERS L P)	138.73	40.00	-53.93		
463-170-28	#10574 (SARKIS NADIM)	32.50	28.65	28.24	28.24	28.24
104-080-05	#10579 (SCHWEIKART JACK REV TR)	393.79	117.59	-144.50	-264.42	
104-250-27	#10579 (SCHWEIKART JACK REV TR)	415.83	139.58	-119.92		
104-250-26	#10580 (SCHWEIKART MICHAEL J)	49.99	20.08	-7.42	-7.42	
463-080-02	#10582 (SCOTT BUZZ FAMILY SURVIVORS TRUST)	10.82	10.00	10.38	10.38	10.38
407-320-01	#10601 (SLIVKOFF BETTY VALOV)	20.22	19.56	21.25	21.25	21.25
103-170-03	#10605 (SMITH JUDITH A)	11.86	20.00	30.54	30.54	30.54
103-180-06	#10606 (SNOW CHRISTINA LAREE)	106.79	40.00	-21.99	-21.99	
408-121-10	#10617 (STOCKDALE PALM LP)	65.16	20.14	-22.46	-173.58	
408-121-11	#10617 (STOCKDALE PALM LP)	63.65	20.14	-20.95		
408-121-12	#10617 (STOCKDALE PALM LP)	63.97	20.14	-21.27		
408-121-13	#10617 (STOCKDALE PALM LP)	60.25	20.14	-17.55		
408-121-15	#10617 (STOCKDALE PALM LP)	60.40	19.69	-18.66		
408-121-16	#10617 (STOCKDALE PALM LP)	60.48	19.69	-18.74		
408-121-17	#10617 (STOCKDALE PALM LP)	62.42	19.69	-20.68		
408-250-47	#10617 (STOCKDALE PALM LP)	150.24	52.30	-39.36		
463-051-03	#10617 (STOCKDALE PALM LP)	76.61	39.09	6.26		
463-051-20	#10617 (STOCKDALE PALM LP)	20.40	9.54	-0.17		
104-011-44	#10633 (TEXAS MUNICIPAL PLANS CONSORTIUM L L C)	987.94	263.80	-428.69	-428.69	
103-160-04	#10640 (TRACY RANCH INC)	1,680.62	627.86	-349.55	-640.24	
103-160-14	#10640 (TRACY RANCH INC)	166.28	73.93	-9.55		
103-160-15	#10640 (TRACY RANCH INC)	228.88	80.00	-59.28		
103-170-33	#10640 (TRACY RANCH INC)	1,148.66	400.00	-300.66		
104-200-02	#10640 (TRACY RANCH INC)	686.83	319.80	-8.85		
104-260-01	#10640 (TRACY RANCH INC)	1,249.12	640.00	107.68		
104-260-14	#10640 (TRACY RANCH INC)	528.83	240.00	-20.03		
408-250-01	#10641 (TRAVEL CRUISE CONNECTIONS INC)	167.48	78.18	-1.73	-1.73	
463-051-14	#10649 (UNRUH LLOYD & BARBARA FMLY TR)	233.57	105.00	-10.97	-65.25	
463-150-05	#10650 (UNRUH LLOYD S & BARBARA FMLY TR)	63.11	18.64	-23.59		
463-150-06	#10650 (UNRUH LLOYD S & BARBARA FMLY TR)	72.13	19.55	-30.69		
104-090-02	#10651 (V LIONS HOLDINGS LLC)	657.04	158.18	-321.69	-1,283.78	
104-090-43	#10651 (V LIONS HOLDINGS LLC)	2,438.09	589.37	-1,188.62		
104-292-04	#10651 (V LIONS HOLDINGS LLC)	83.17	71.40	68.20		
463-070-04	#10651 (V LIONS HOLDINGS LLC)	184.58	161.75	158.33		
408-122-08	#10653 (VALOV BROTHERS FARMS LP)	33.48	23.50	16.34	16.34	16.34
463-052-12	#10654 (VAN LEEUWEN HARRIET SURVIVORS TRUST)	129.55	38.18	-48.61	-95.60	
463-052-13	#10654 (VAN LEEUWEN HARRIET SURVIVORS TRUST)	67.92	19.78	-25.98		
463-052-14	#10654 (VAN LEEUWEN HARRIET SURVIVORS TRUST)	59.68	18.24	-21.01		
463-130-05	#10656 (VANARM PROP LLC)	21.37	28.45	38.95	38.95	38.95
464-022-27	(WD PROP LLC)	9.17	9.55	11.08	11.08	11.08
104-060-18	#10682 (WILLIAMS HUGH TIMOTHY)	31.13	15.00	0.67	0.67	0.67
408-121-18	#10695 (WU YING CHIN)	113.09	38.57	-31.32	-91.29	
408-121-19	#10695 (WU YING CHIN)	143.63	39.46	-59.97		
103-170-12	#10702 (YU LI HSIA YANG)	37.09	35.42	38.00	56.10	56.10

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103-170-14	#10702 (YU LI HSIA YANG)	24.30	20.00	18.10		
103-170-07	#10711 (TORRES CLEMENTE)	20.42	37.33	58.72	58.72	58.72
408-121-20	#10715 (HUANG FAMILY REVOCABLE LIVING TRUST)	132.65	39.82	-48.23	-98.44	
408-121-21	#10715 (HUANG FAMILY REVOCABLE LIVING TRUST)	134.71	39.86	-50.20		
463-150-09	(WEGIS ROAD PARTNERS LLC)	26.23	32.18	41.99	41.99	41.99
104-230-13	#10722 (FORSTER ZACHARY RYAN)	19.65	19.62	21.95	21.95	21.95
104-080-43	#10731 (V LIONS OPERATIONS LP)	46.16	19.64	-4.53	-49.55	
104-080-44	#10731 (V LIONS OPERATIONS LP)	51.51	19.64	-9.88		
104-080-45	#10731 (V LIONS OPERATIONS LP)	49.27	18.83	-9.35		
104-080-46	#10731 (V LIONS OPERATIONS LP)	49.67	19.72	-7.86		
104-080-47	#10731 (V LIONS OPERATIONS LP)	101.55	39.44	-17.94		
408-011-66	(JHAJ ESTS LLC)	10.36	10.07	10.99	10.99	10.99
463-160-09	#10749 (DESPAIN FAMILY TRUST)	23.69	18.20	14.89	14.89	14.89
104-250-29	#10759 (MC CASLIN RIVER RANCH LLC)	238.85	80.00	-69.25	-69.25	
103-010-38	#10762 (ESPARZA JOSE ROLANDO)	19.07	19.56	22.40	22.40	22.40
104-090-01	#10768 (SILL PROP INC)	313.60	160.00	25.60	25.60	25.60
463-052-09	#10769 (BELLARISSA LLC)	98.47	57.73	23.92	23.92	23.92
408-250-15	#10778 (MFDI LLC)	9.23	9.95	11.86	11.86	11.86
104-060-48	#10785 (ABSAR & MCLANE LLC)	25.77	20.02	16.67	16.67	16.67
104-011-12	#10792 (ZIMMERER BERNARD LIFE INSURANCE SUBTRUST)	41.47	40.00	43.33	43.33	43.33
103-110-05	#10795 (J G BOSWELL CO)	112.29	40.00	-27.49	-245.01	
103-110-06	#10795 (J G BOSWELL CO)	100.75	38.59	-18.94		
103-150-01	#10795 (J G BOSWELL CO)	323.31	153.30	1.68		
103-150-04	#10795 (J G BOSWELL CO)	450.57	160.00	-111.37		
103-150-23	#10795 (J G BOSWELL CO)	400.29	146.88	-88.91		
408-122-14	#10803 (STEWART KAMERON LIVING TRUST)	20.21	10.08	1.16	1.16	1.16
463-052-17	#10804 (OVANESSIAN LORI TRUST)	21.83	19.76	20.06	20.06	20.06
103-150-05	#10806 (BARNES EARL K & CAROLYN M)	35.74	63.68	99.26	144.95	144.95
103-150-19	#10806 (BARNES EARL K & CAROLYN M)	15.78	29.00	45.70		
104-210-08	#10814 (MC CASLIN HOME RANCH LP)	150.91	38.18	-69.96	-360.57	
104-210-13	#10814 (MC CASLIN HOME RANCH LP)	98.26	26.09	-42.95		
104-210-17	#10814 (MC CASLIN HOME RANCH LP)	18.50	5.00	-7.90		
104-210-24	#10814 (MC CASLIN HOME RANCH LP)	16.52	5.00	-5.92		
104-210-30	#10814 (MC CASLIN HOME RANCH LP)	16.33	5.00	-5.73		
104-210-32	#10814 (MC CASLIN HOME RANCH LP)	18.15	5.00	-7.55		
104-210-36	#10814 (MC CASLIN HOME RANCH LP)	145.56	40.00	-60.76		
104-210-37	#10814 (MC CASLIN HOME RANCH LP)	105.16	32.93	-35.35		
104-210-38	#10814 (MC CASLIN HOME RANCH LP)	65.00	57.24	56.35		
104-250-02	#10814 (MC CASLIN HOME RANCH LP)	269.47	79.09	-101.80		
104-250-03	#10814 (MC CASLIN HOME RANCH LP)	246.68	79.09	-79.01		
407-120-04	#10817 (LAUT FARMS LLC)	12.24	10.42	9.85	9.85	9.85
103-270-07	#10829 (AJB LAND LLC)	443.09	142.20	-141.63	-448.08	
104-260-09	#10829 (AJB LAND LLC)	46.57	18.35	-7.67		
104-260-15	#10829 (AJB LAND LLC)	54.12	18.35	-15.21		
104-270-01	#10829 (AJB LAND LLC)	954.95	320.00	-276.55		
104-270-06	#10829 (AJB LAND LLC)	688.15	321.29	-7.02		
104-270-10	#10832 (ONE HERITAGE PROP LLC)	106.84	201.17	319.64	319.64	319.64
104-210-01	#10835 (MC CASLIN SP RANCH LP)	501.30	157.00	-168.46	-703.34	
104-210-02	#10835 (MC CASLIN SP RANCH LP)	1,546.11	477.00	-534.87		
104-230-04	#10843 (JGF ORCHARDS LLC)	106.86	49.85	-1.18	-1.18	
104-230-02	#10856 (RIZZO EUGENE D)	177.06	49.85	-71.38	-71.38	
104-060-06	#10863 (VEENHOVEN WILLEM & ALIDA FAMILY TRUST)	154.93	49.09	-50.86	-94.36	
104-060-07	#10742 (VEENHOVEN WILLEM & ALIDA FAMILY TR)	28.66	10.00	-7.46		
104-060-08	#10863 (VEENHOVEN WILLEM & ALIDA FAMILY TRUST)	30.24	10.00	-9.04		
104-060-17	#10863 (VEENHOVEN WILLEM & ALIDA FAMILY TRUST)	61.14	20.00	-18.74		
104-060-19	#10863 (VEENHOVEN WILLEM & ALIDA FAMILY TRUST)	29.46	10.00	-8.26		
104-030-33	#10870 (BRUNNI STEVEN & PAMELA FAMILY TRUST)	132.42	39.83	-47.98	-47.98	
408-122-12	#10871 (STEWART ROBB & HOPE LIV TR)	17.17	7.79	-0.65	-3.39	
408-122-53	#10871 (STEWART ROBB & HOPE LIV TR)	30.58	13.13	-2.74		
408-122-44	#10876 (MUNGER DIWAN K & GABRIELLE A)	19.78	19.69	21.96	21.96	21.96
408-122-05	#11090 (STEWART LIVING TRUST)	60.48	19.34	-19.48	-30.12	

Kern County Assessor Parcel Number	RRBWS Water Platform Account Number (Owner Name per Kern County Assessor)	Estimated 2022 Total Water Usage (AF) (1)	Kern County Assessed Acres (2)	Estimated Parcel Water Supply vs Use (AF) (3)	Estimated Total Account Water Supply vs Use (AF) (4)	Potential Supplies in Excess of Use (AF) (5)
408-122-07	#11090 (STEWART LIVING TRUST)	40.07	13.88	-10.64		
104-040-02	#11132 (AINHOA LAND HOLDINGS LP)	105.27	37.00	-26.83	-202.00	
104-040-03	#11132 (AINHOA LAND HOLDINGS LP)	56.05	20.00	-13.65		
104-040-05	#11132 (AINHOA LAND HOLDINGS LP)	94.15	36.98	-15.75		
104-040-12	#11132 (AINHOA LAND HOLDINGS LP)	239.68	80.00	-70.08		
104-040-13	#11132 (AINHOA LAND HOLDINGS LP)	59.72	20.00	-17.32		
104-040-22	#11132 (AINHOA LAND HOLDINGS LP)	218.17	75.38	-58.36		
104-292-07	#11179 (G & R PROPERTIES)	144.07	47.54	-43.28	-189.89	
104-292-10	#11179 (G & R PROPERTIES)	145.75	49.17	-41.51		
104-292-11	#11179 (G & R PROPERTIES)	231.20	69.29	-84.30		
408-122-43	#11179 (G & R PROPERTIES)	94.55	34.79	-20.80		
104-080-36	(COUNTRYSIDE FARMS LLC)	107.90	36.83	-29.82	-29.82	
104-292-32	(ENOS LANE PROP LLC)	32.04	9.61	-11.67	-11.67	
495-050-02	(KIRPA PROPERTIES LLC)	5.83	9.86	15.08	15.08	15.08
104-292-02	(SAGE CREEK RANCH LLC)	356.36	164.47	-7.69	-7.69	
408-070-01	(SHAFFER DANNY)	65.32	17.19	-28.88	-58.78	
408-070-31	(SHAFFER DANNY)	67.64	17.80	-29.90		
TOTALS		87,156.96	32,410.12	-18,447.50		5,383.16
Estimated Total Water Supply versus Use (6) =				18,400	AF	
Assuming 15% of Potential Supplies in Excess of Use are not acquired (7) =				800	AF	
Estimated Demand Subject to Water Charge =				19,200	AF	
<u>Column Notes:</u> (1)	Estimated Water Usage for 2022 from RRBWS Water Accounting Platform (based on OpenET) or estimated based on similar usage for parcels not currently on Water Accounting Platform and reduced by: 10% for conversion to LandIQ ET and 5% for implementation of Water Charge.					
(2)	Parcel assessed acres per Kern County Assessor.					
(3)	Parcel water supply versus use calculated as Historically Available Supplies times Assessed Acres less Estimated Water Usage [(2.12 AF/Acre X Column 2) - (Column 1)].					
(4)	Total of parcel water supply versus use from Column 3 for all parcels in a given account.					
(5)	Total water supply versus use for accounts with a positive account balance from Column 4.					
<u>Other Notes:</u> (6)	Total of parcel water supply versus use from Column 3 rounded to the nearest hundred acre-feet. Represents 100% acquisition of potential supplies in excess of use.					
(7)	Assumes 85% of potential supplies in excess of use are transferred through an in-District water market process (15% are not acquired) rounded to the nearest hundred acre-feet.					

RESOLUTION NO. 535

EXHIBIT B

Rosedale-Rio Bravo Water Storage District

Notice of Proposed Water Charge

In compliance with California state law, a **public hearing will be held on November 14, 2023 at 8:30a.m., at the District's office located at 849 Allen Road, Bakersfield, CA 93314** to consider a proposed volumetric **Water Charge** to be charged for water use on agricultural parcels within the District that is in excess of the amount of available water supplies. The Water Charge would be a new charge in addition to the District's assessment. The need for the Water Charge is driven by Sustainable Groundwater Management Act (SGMA) requirements to manage the underlying groundwater reservoir in a sustainable manner. The Water Charge is being proposed in order to equitably distribute the financial burden of "sustainability" (i.e., balance) to those landowners who require more water than the District's Project provides, in proportion to their respective overages. For information regarding the requirements of SGMA, please see the Department of Water Resources' SGMA webpage:

<https://water.ca.gov/programs/groundwater-management/sgma-groundwater-management>

Proposed Charges:

The public hearing will concern the District's proposal to implement a volumetric Water Charge. Revenue from the proposed Water Charge will be used on projects to augment water supplies and/or manage demands within the District in order to minimize groundwater overdraft and maintain sustainable groundwater supplies for all of the District's landowners.

The Water Charge will be imposed on agricultural parcels* within the District that use water in excess of the amount the District's Project provides, plus Native Yield and Precipitation (collectively "available supply"). The initial maximum water charge rate will be \$256.00 per acre-foot used in excess of available supply.**

The water charge rate will be regularly set by the District's Board of Directors at open and public meetings. The Board's decision will be based on consideration of various financial factors, including the District's projected revenues and expenses as well as land, water, and project construction costs. **The actual amount of the Water Charge rate may vary from time to time. However, absent a subsequent noticed public hearing, the Water Charge rate will not exceed the maximum rate set forth above. In addition, Landowners will be permitted to offset the water charge on a parcel if they own or control other parcels that use less water than the available supply.**

*The Water Charge would apply to agricultural parcels 9.5 acres or greater in size and those parcels less than 9.5 acres but larger than 4.7 acres that are located adjacent to other parcels owned/controlled by the same landowner and/or collectively developed in irrigated agricultural use.

**The supply available to a landowner before the Water Charge will be imposed is comprised of three components; Project Water, Native Yield and Precipitation. Project Water is determined annually based upon the District's average net water supply available (currently calculated at 1.55 acre-feet per acre based upon a 20 year average; this amount will fluctuate annually based upon the District's prior year's supply). Native Yield refers to the natural, unallocated portion of groundwater recharge to the Kern Subbasin from the July 2022 Kern Groundwater Authority Amended Groundwater Sustainability Plan (currently calculated at .15 acre-feet per acre). Precipitation is based upon the prior year's precipitation (currently calculated at .42 acre-feet based upon average of 2005-2015 precipitation; this amount will fluctuate annually based upon actual precipitation).

Please see the *Water Charge Study* on the District's website for a more detailed explanation of the information that was used as the basis for determining the maximum amount of the water charge.

The time for paying the Water Charge will be fixed by the Board under Water Code section 47181, and delinquencies in payment will be subject to the penalties and interest provided for in section 47182. It is expected that the Water Charge will be due annually in May. The District may collect delinquent charges using the procedures set forth in sections 47183 through 47185, or any other procedure lawfully available to the District.

Enclosed with this notice is an example calculation of the Water Charge that would have been imposed on the listed parcels within the District based on the calculated 2022 consumptive use if the proposed Water Charge had been effective in 2022 and set at the maximum rate. The example calculation assumes an available supply of 2.12 acre-feet per year; this number will fluctuate annually based upon the amount of Project Water and Precipitation in the previous year. The Water Charge imposed on those parcels for use in 2023 and subsequent years will be based on updated supply calculations and the estimated consumptive use on the parcels.

For more information, including the *Water Charge Study* supporting the charge, please visit the District website at www.rrbwsd.com. A copy of the *Water Charge Study* may also be obtained directly from the District at the address listed below.

Public Hearing:

Owners of land subject to the proposed Water Charge have the right to protest its adoption. If you have received this notice, parcel(s) under your ownership will be subject to the Water Charge if it is adopted. In the event of a majority protest, the fee will not be adopted. Landowners desiring to protest the proposed Water Charge should send their written protest to:

Secretary of the Board of Directors
Rosedale-Rio Bravo Water Storage District
849 Allen Road
Bakersfield, CA 93314

Protests may also be submitted to the Secretary of the Board of Directors at the Public Hearing. **All protests must be received no later than the close of the public hearing or they will not be counted.**

If you do not wish to protest the proposed Water Charge, you need not take any action.

To Protest:

All protests must include:

- The identity of each parcel represented by the protest;
- The name of the protester; and,
- A signed statement, containing an original signature, indicating that the writing is a written protest on behalf of the parcel and that the person signing the protest is an owner of the parcel.

Each parcel is entitled to one protest.

For your convenience, you may utilize the enclosed Protest Form.

NOTICE: Under Government Code section 53759, there is a 120-day statute of limitations for challenging any new, increased, or extended fee or charge subject to that section, including the Water Charge.

Rosedale-Rio Bravo Water Storage District

EXAMPLE Water Charge Calculation

The following is an example water charge calculation for the landowner listed below assuming the maximum water charge rate of \$256.00.

LANDOWNER :

**JOHN AND JANE DOE
849 ALLEN ROAD
BAKERSFIELD CA 93314**

PARCELS / WATER USE:

APN	Assessed Acres (1)	2022 Total Water Use in Acre Feet (2)	Water Use on Parcel in Comparison to Supply in Acre Feet (3)
555-555-01	18.83	21.20	21.79
555-555-02	157.36	332.49	49.32
555-555-03	80.00	299.79	(86.72)
555-555-04	40.41	197.94	(83.57)
555-555-05	40.10	176.85	(66.19)
TOTAL WATER USE IN COMPARISON TO SUPPLY (4) =			(165.37)

EXAMPLE WATER CHARGE FOR 2022 (5) =	\$	42,334.15
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- | |
|--|
| (1) Assessed Acres per Kern County Assessor. |
| (2) Estimated Water Usage for 2022 from RRBWSD Water Accounting Platform (based on OpenET) or estimated based on similar usage for parcels not currently on Water Accounting Platform. Consistent with the Water Charge Study, reductions of 10% for conversion to LandIQ ET and 5% for implementation of Water Charge were applied to 2022 Total Water Use. |
| (3) Parcel water use in comparison of supply calculated as Available Supplies multiplied by Assessed Acres less 2022 Total Water Use. |
| (4) If Total Landowner Water Use in Comparison to Supply is positive, no water charge will be imposed for the associated landowner / farming unit. |
| (5) Example water charge is based on maximum water charge rate of \$256 multiplied by water use on parcel in compasion to supply in acre-feet. |

**Rosedale-Rio Bravo Water Storage District
Protest Form to the Adoption of Proposed Water Charge**

Landowner Printed Name:

Number of Parcels:

Assessor's Parcel Number(s):

(Add Additional Parcels on Separate Sheet if Necessary)

Reason for Protest (optional):

As owner of the parcels listed above, I protest the imposition of the proposed Water Charge.

Landowner Signature: _____

Printed Name: _____



BOARD MEETING

[Next Meeting Agenda](#)

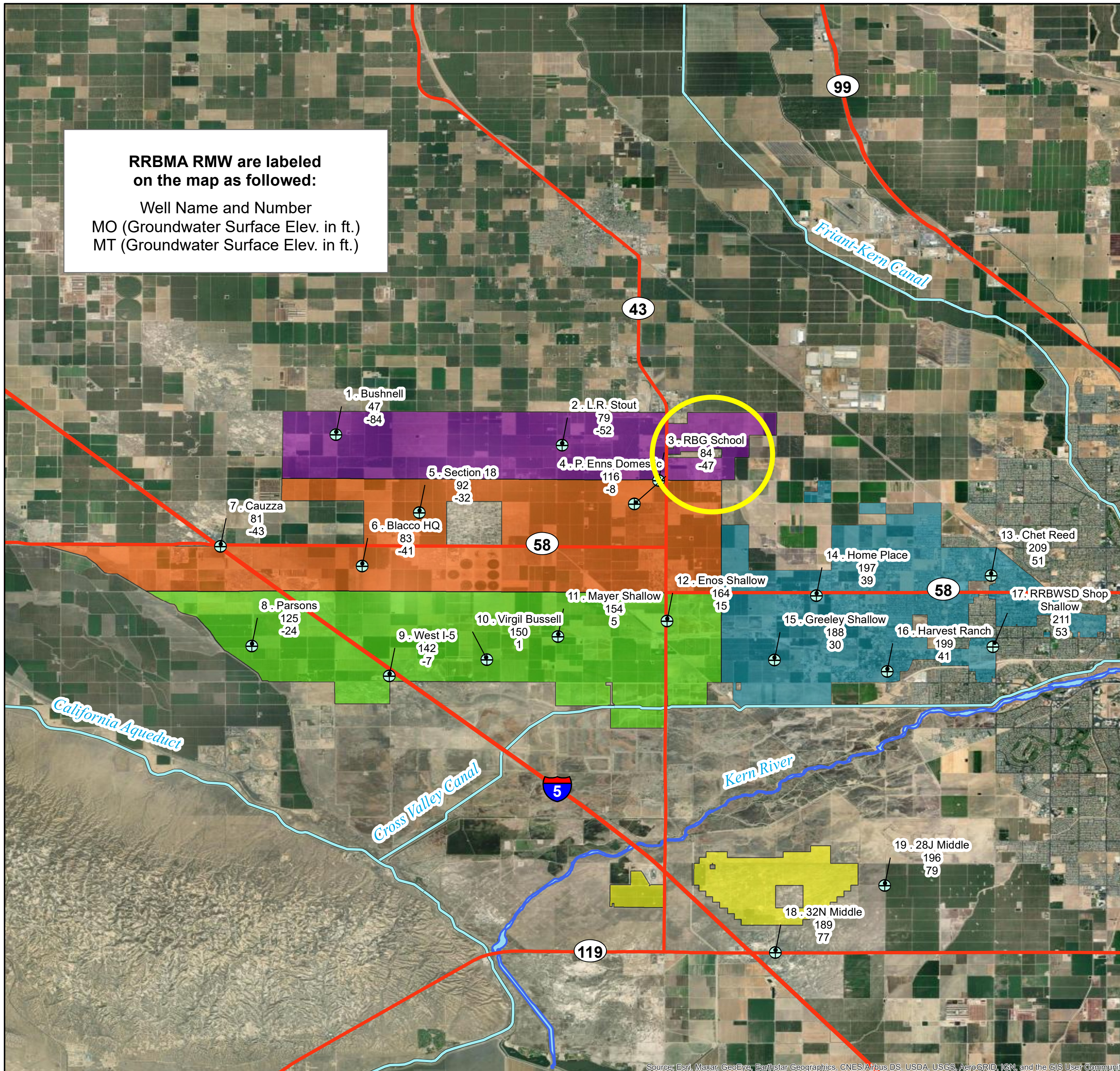
NEWS & UPDATES

[VIDEO: How to find Depth to Water Data](#)

[2023-2028 RRBWSD Strategic Plan](#)



RRBMA Monitoring Areas - RMW Water Level MOs and MTs



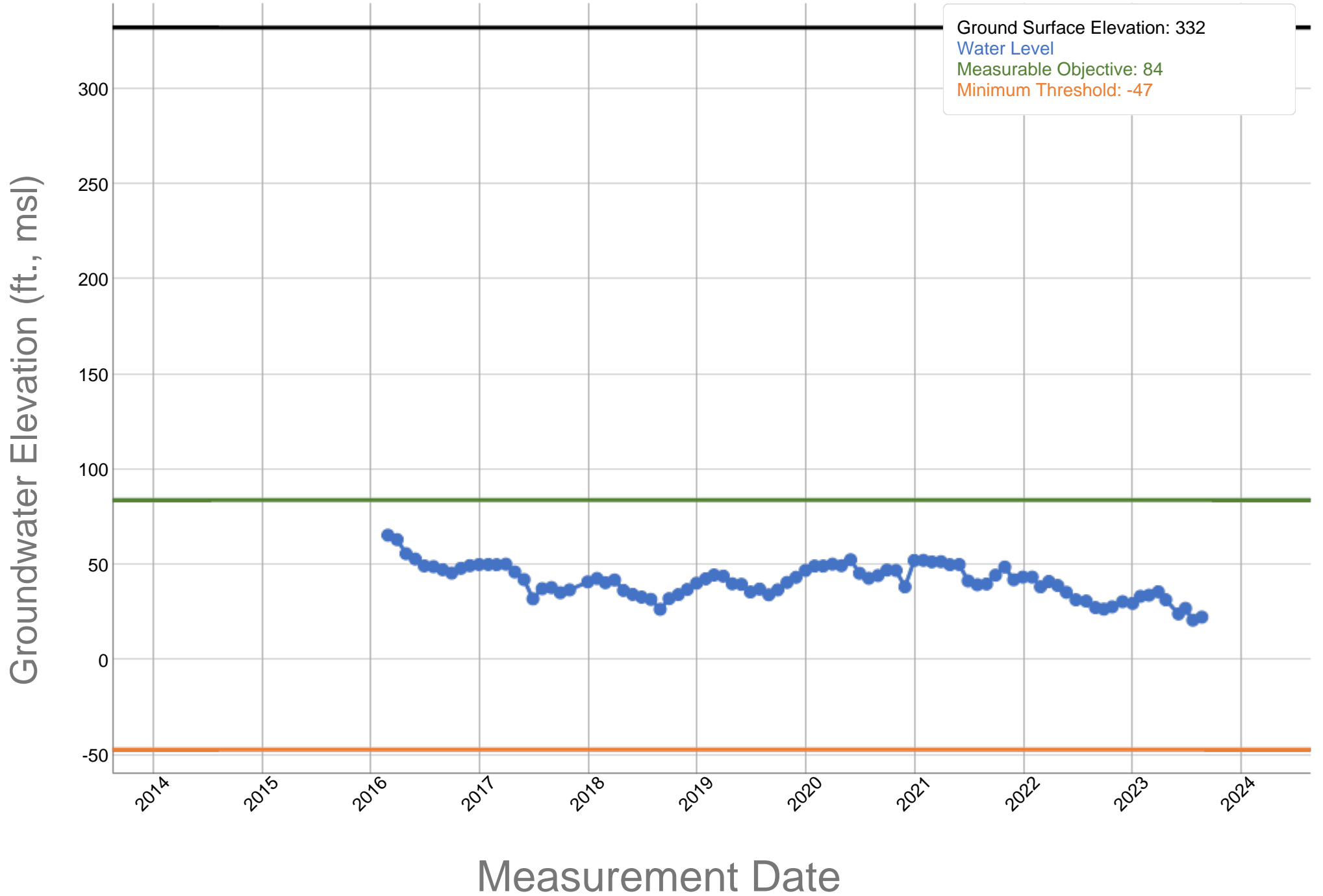
Legend

- ⊕ RRBMA RMW (Water Level)
- Major Highways
- Major Conveyance Facilities
- Kern River
- North Monitoring Area
- Central Monitoring Area
- South Monitoring Area
- East Monitoring Area
- South of the River Monitoring Area

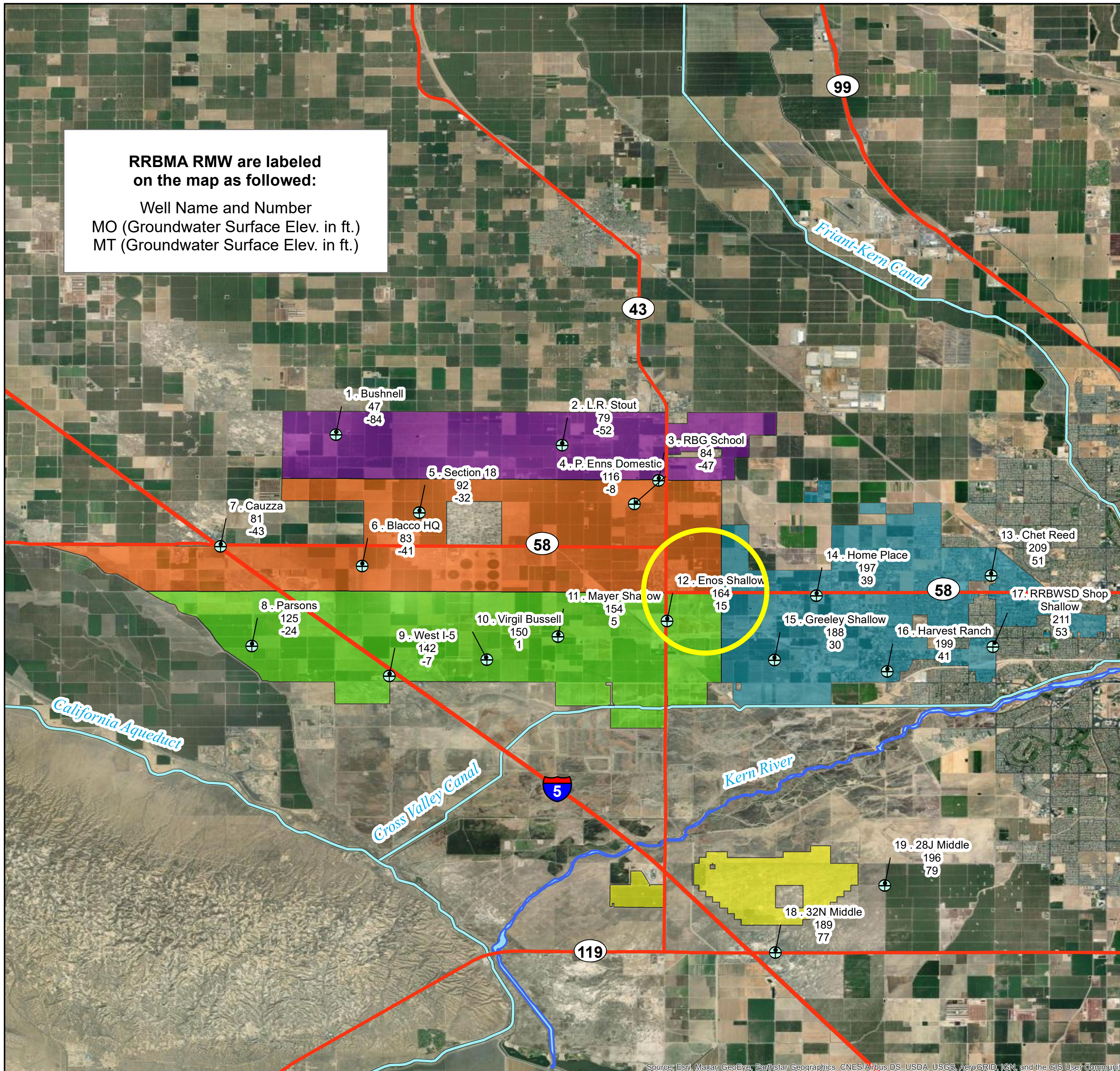
*RMW = Representative Monitoring Well
 MO = Measurable Objective
 MT = Minimum Threshold*



Rosedale-Rio Bravo GSA - RBG School - 354197N1192544W001



RRBMA Monitoring Areas - RMW Water Level MOs and MTs



Legend

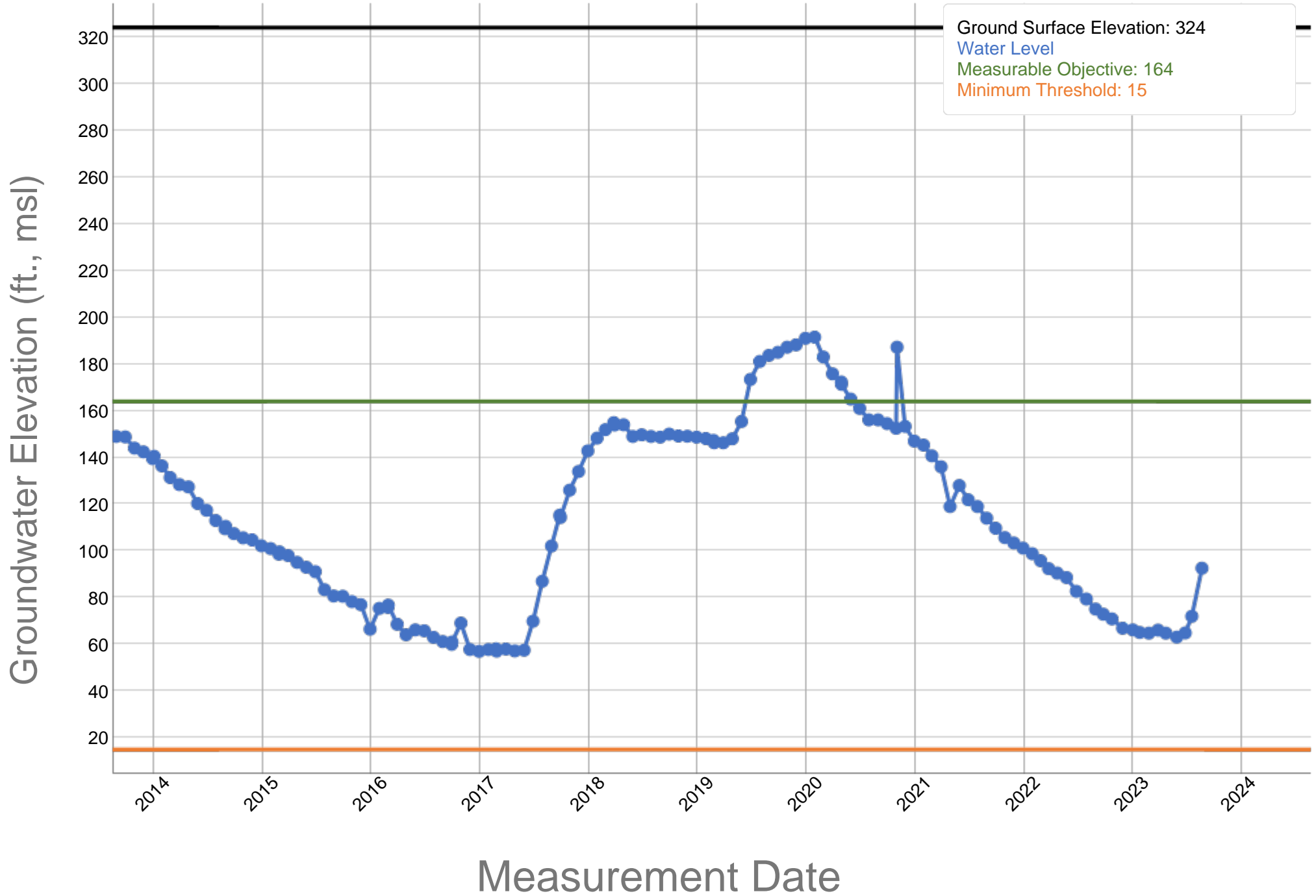
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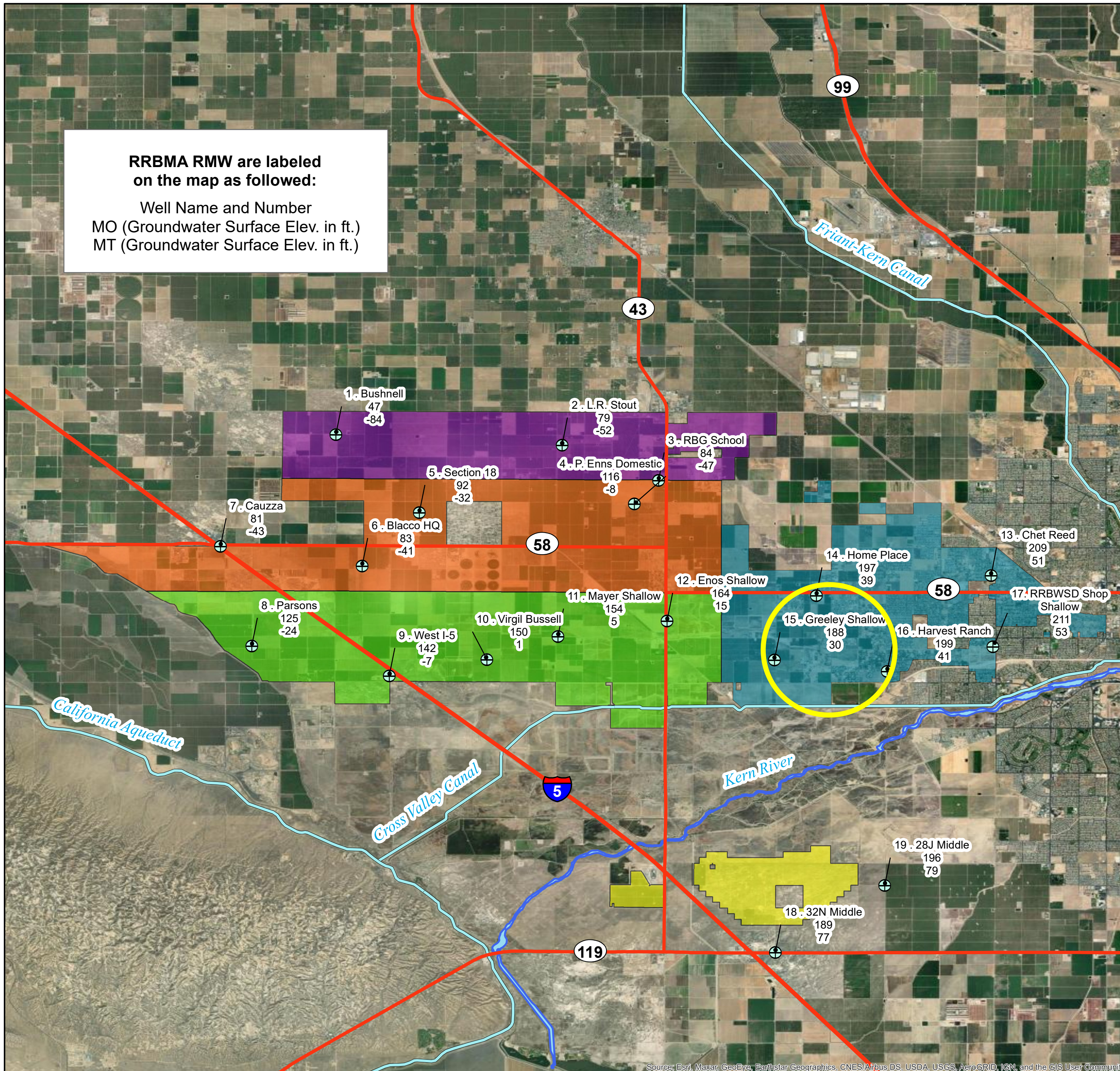


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Rosedale-Rio Bravo Water Storage District - 25M Enos - 353760N1192498W002



RRBMA Monitoring Areas - RMW Water Level MOs and MTs



Legend

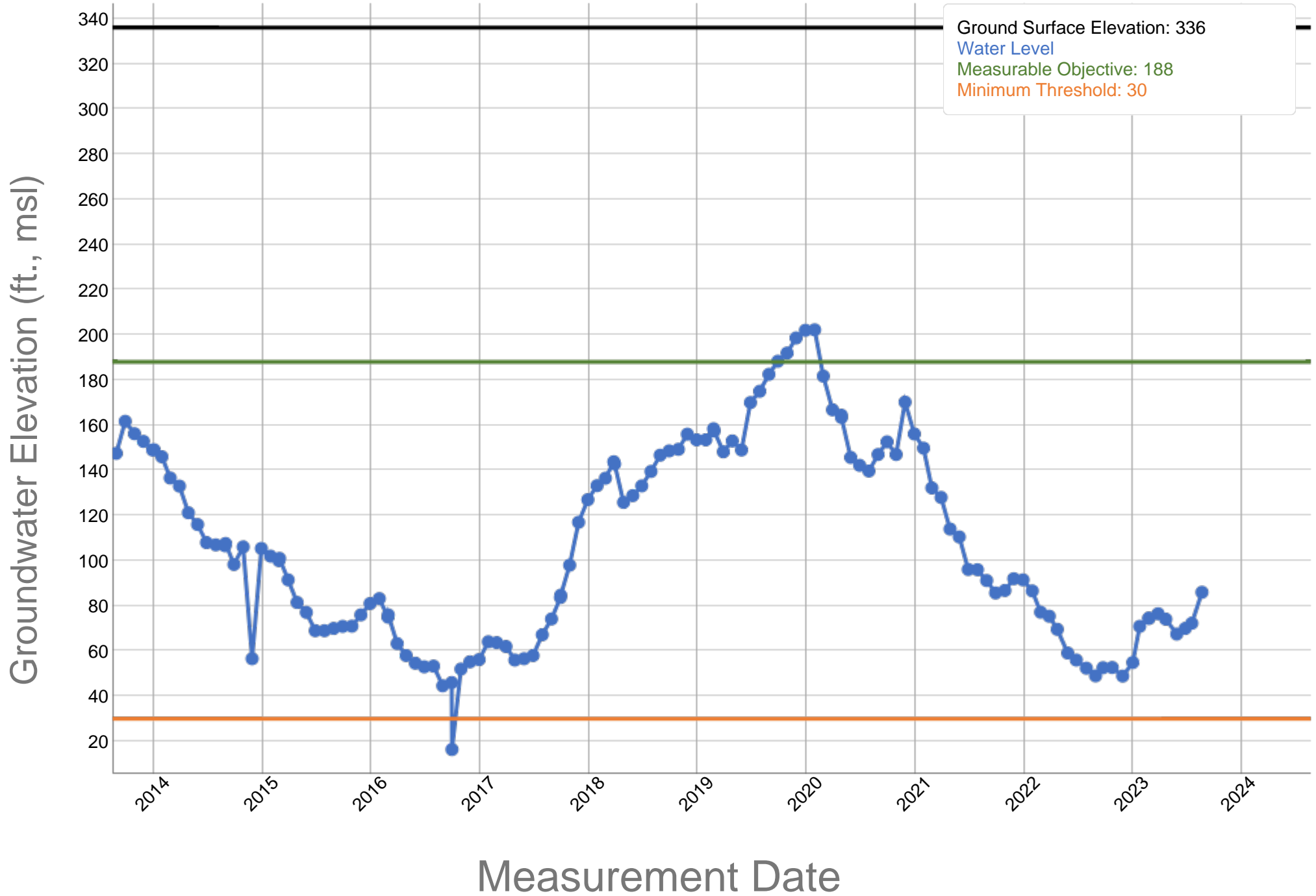
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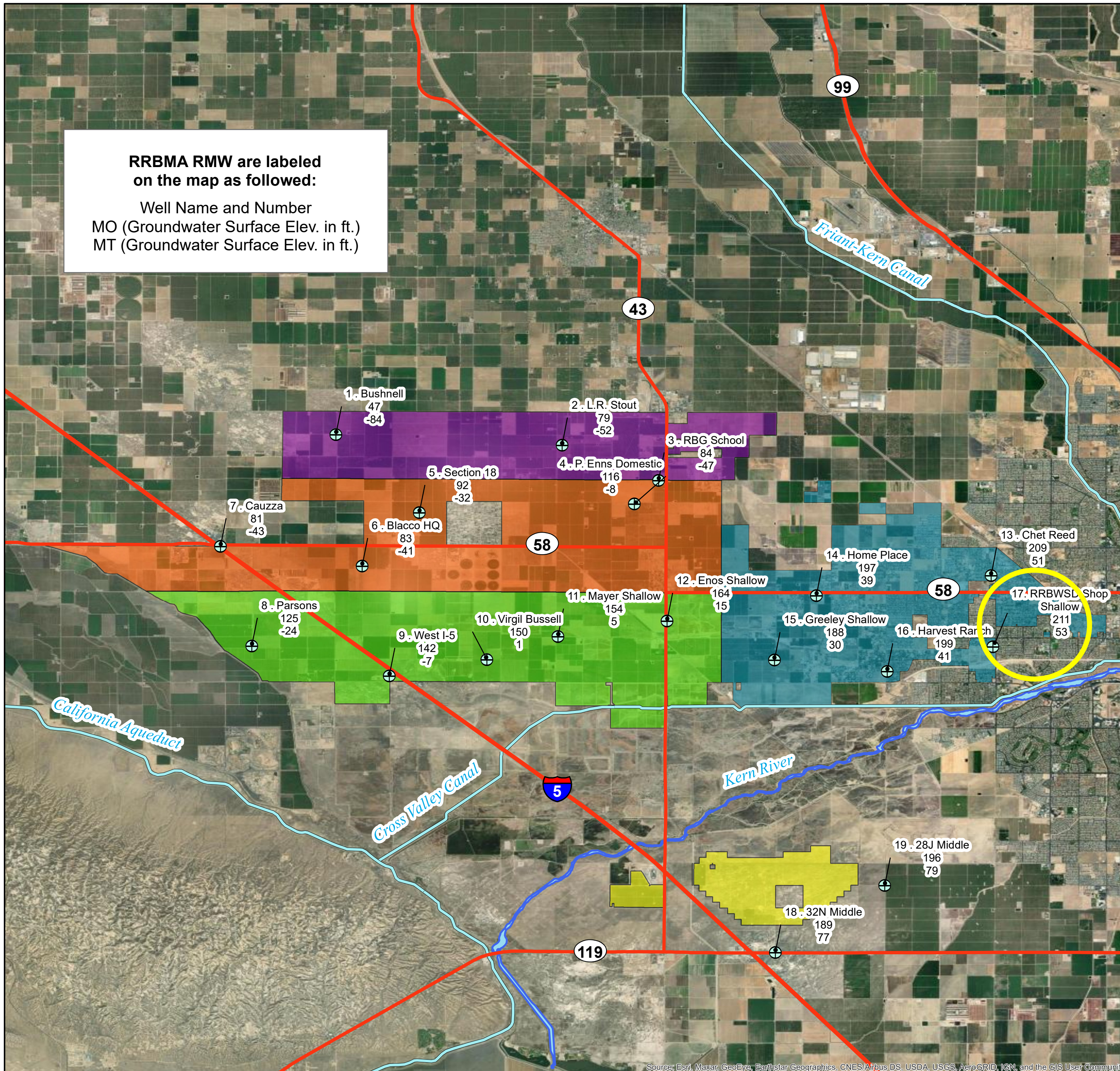


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Rosedale-Rio Bravo Water Storage District - 31H Greeley - 353618N1192169W001



RRBMA Monitoring Areas - RMW Water Level MOs and MTs



Legend

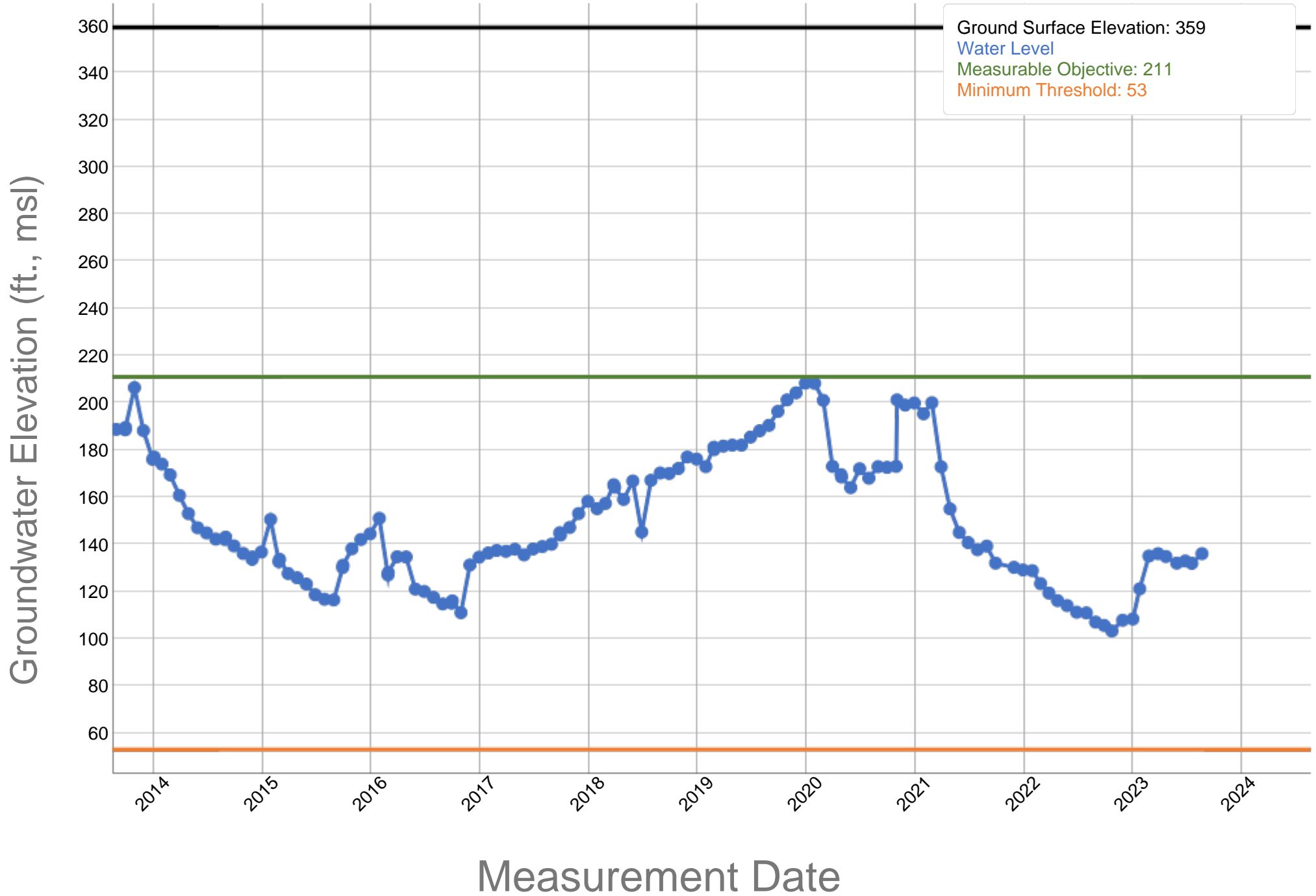
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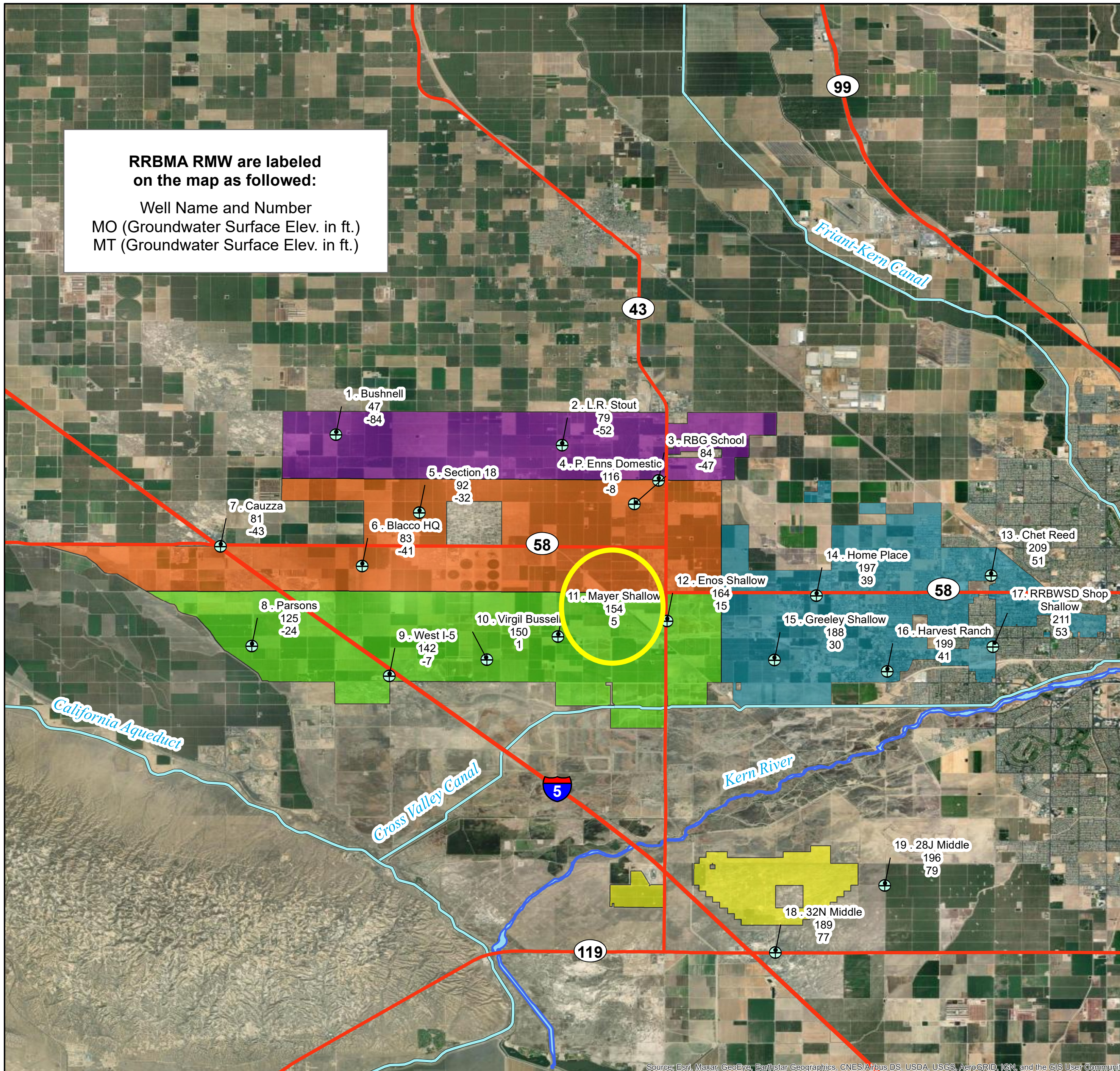


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Rosedale-Rio Bravo Water Storage District - 35H RRBWSD Shop - 353620N1191457W002



RRBMA Monitoring Areas - RMW Water Level MOs and MTs



Legend

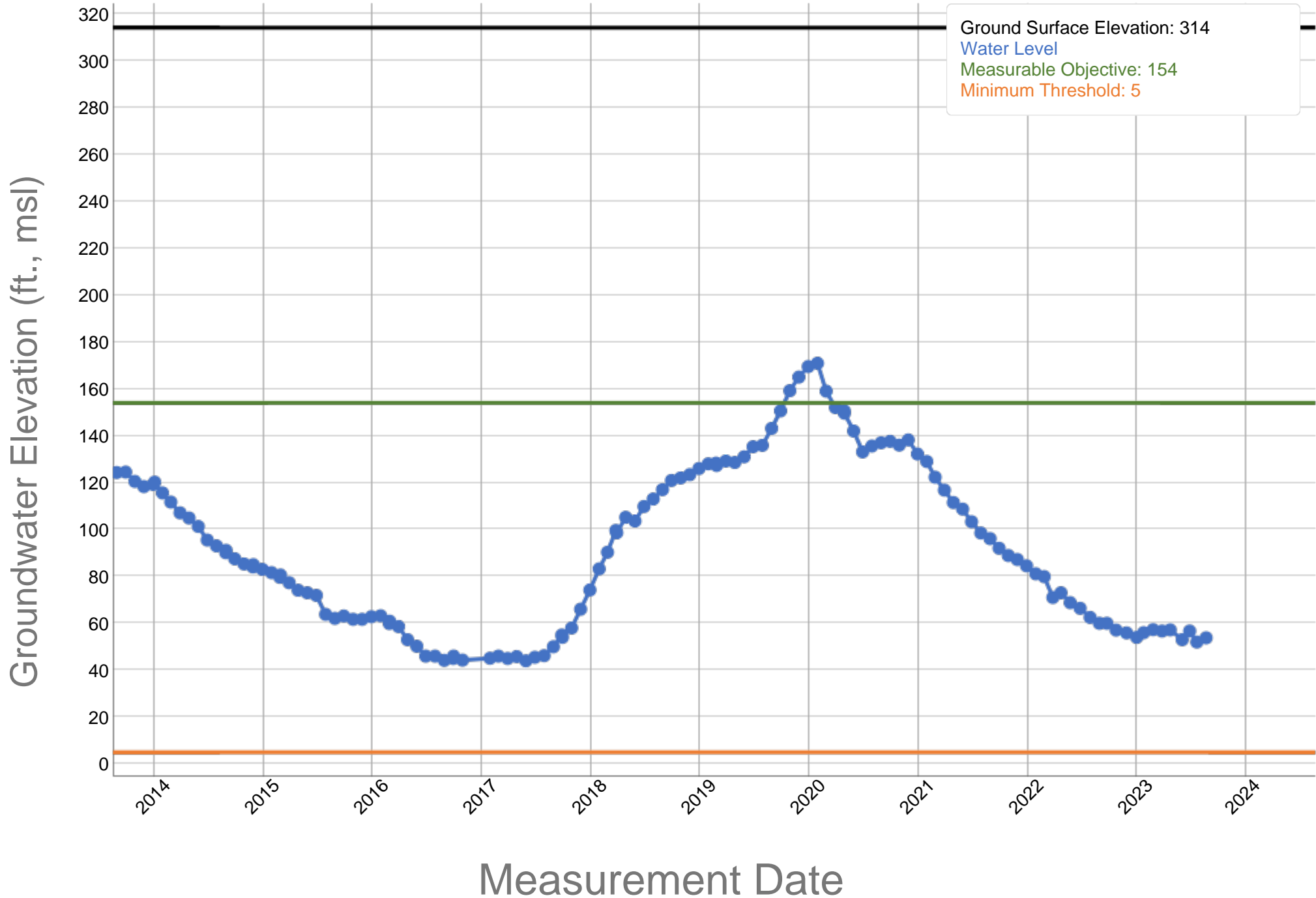
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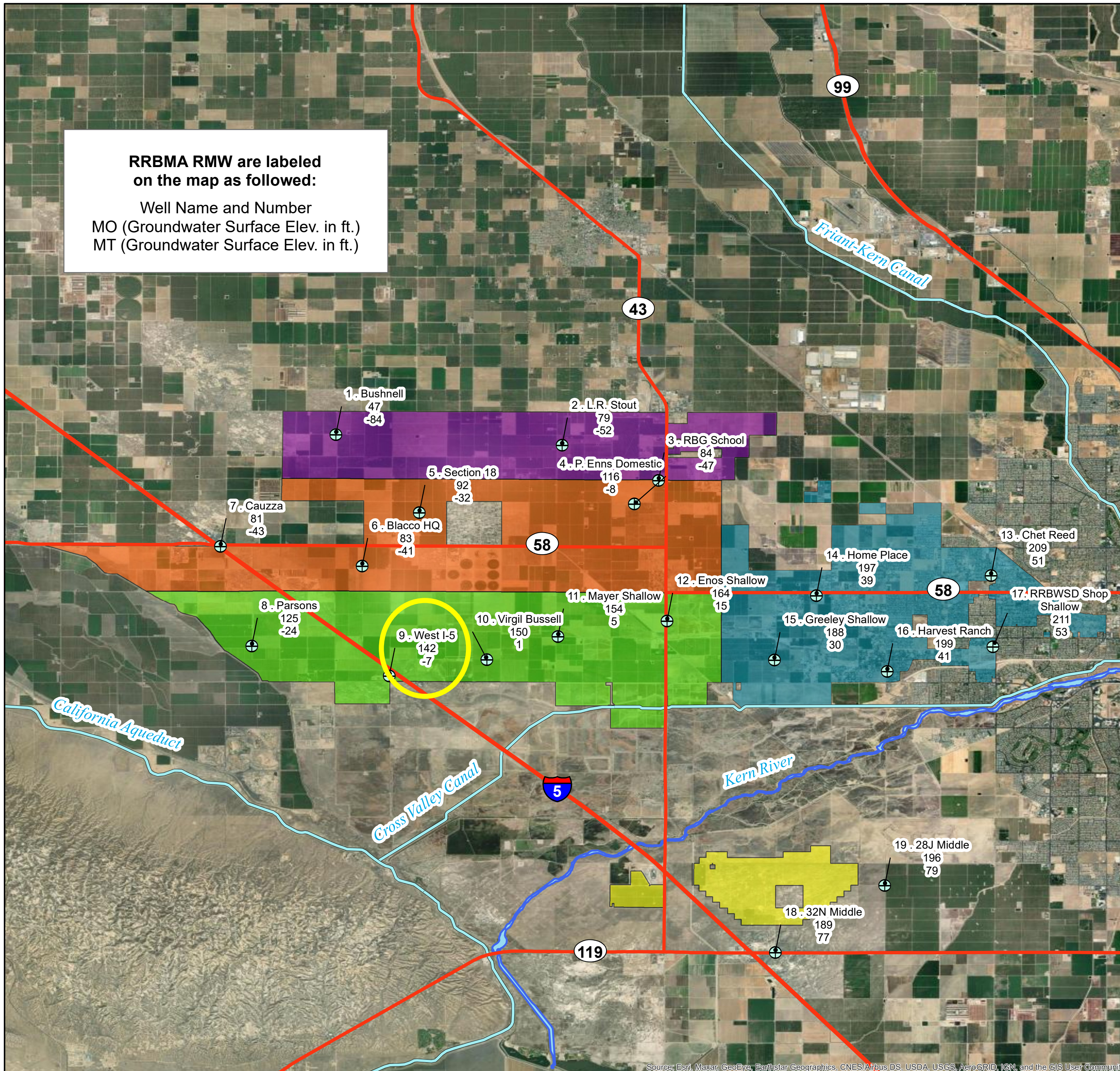


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Rosedale-Rio Bravo Water Storage District - 27N Mayer - 353699N1192856W002



RRBMA Monitoring Areas - RMW Water Level MOs and MTs



Legend

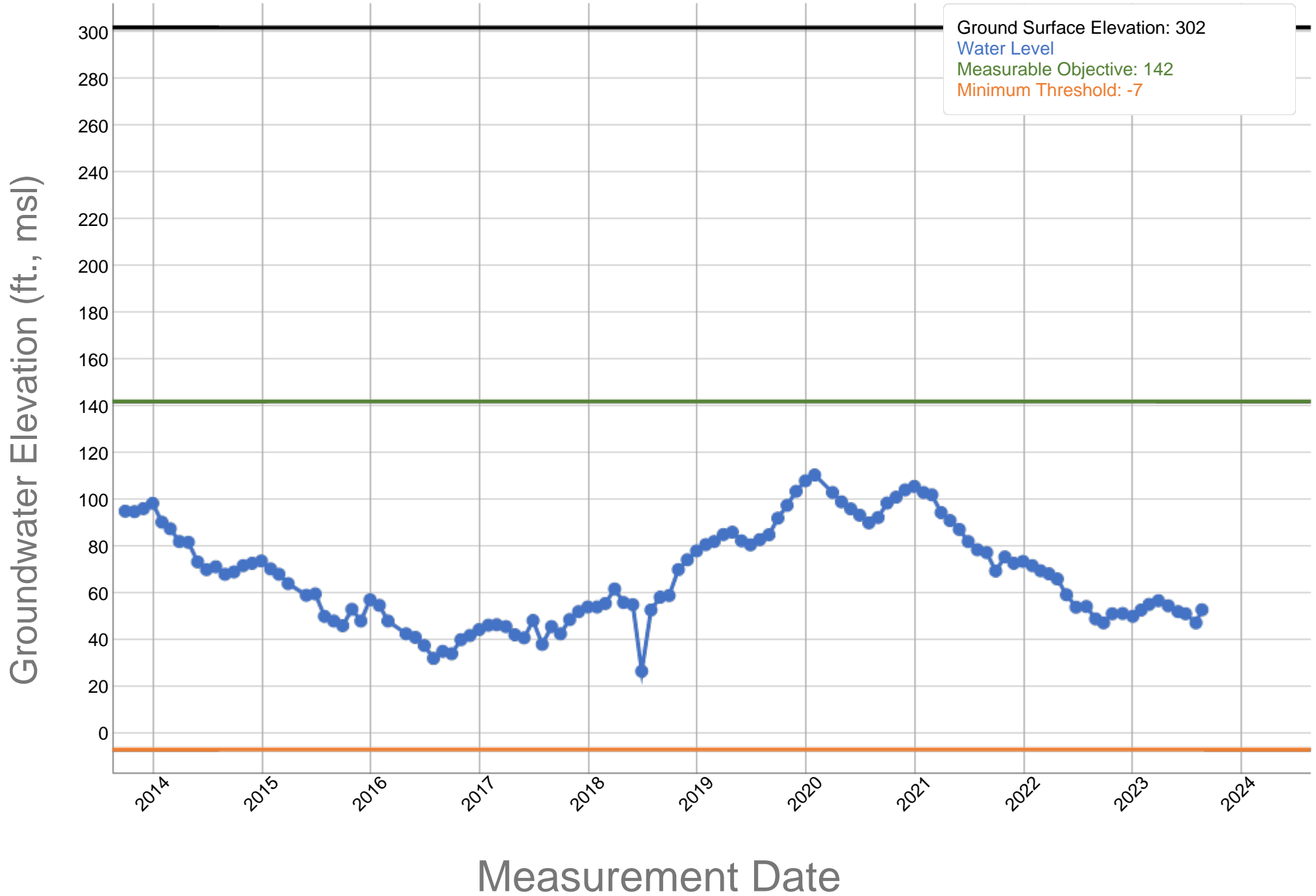
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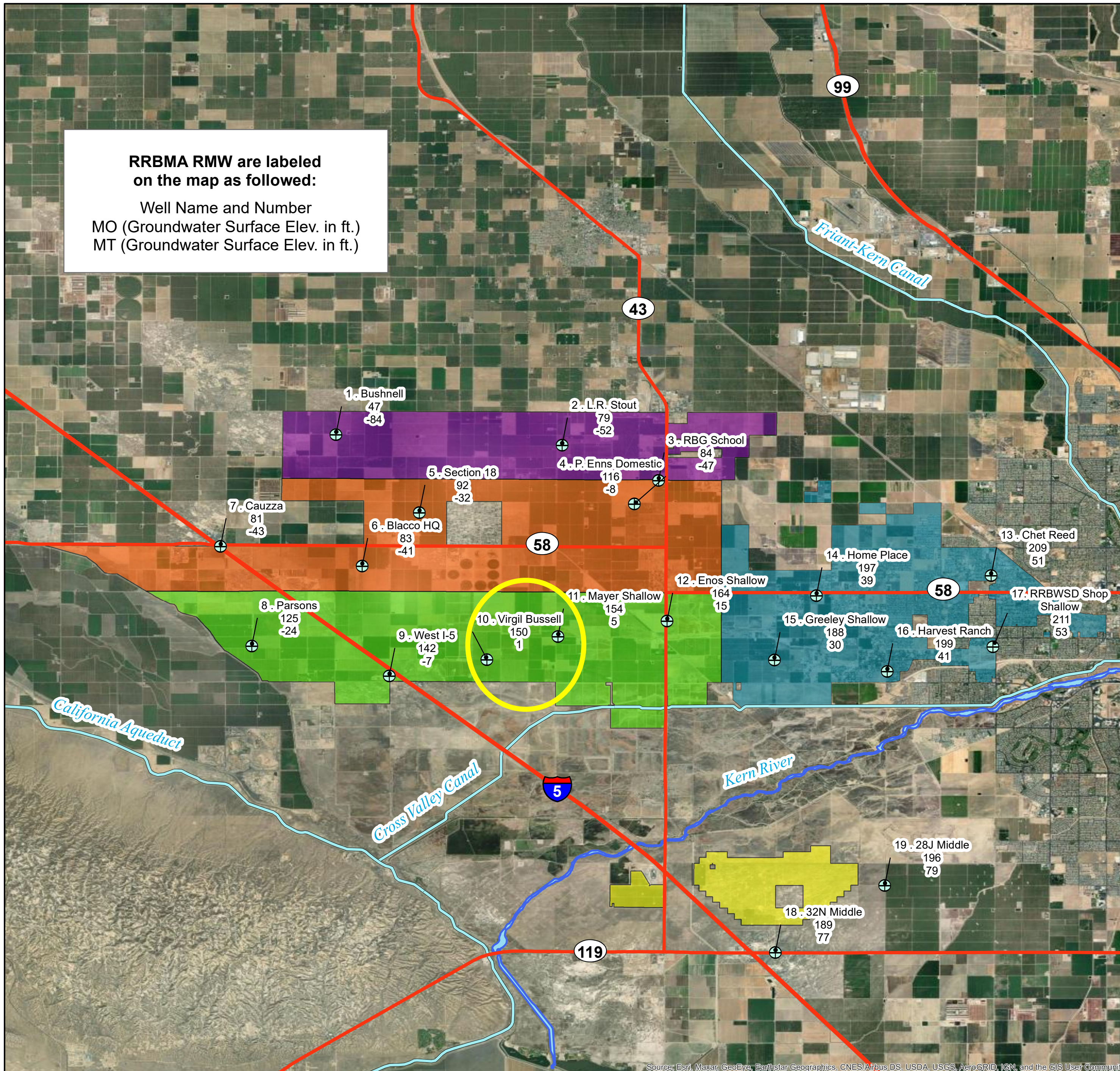


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Rosedale-Rio Bravo Water Storage District - West I-5 - 353564N1193412W001



RRBMA Monitoring Areas - RMW Water Level MOs and MTs



Legend

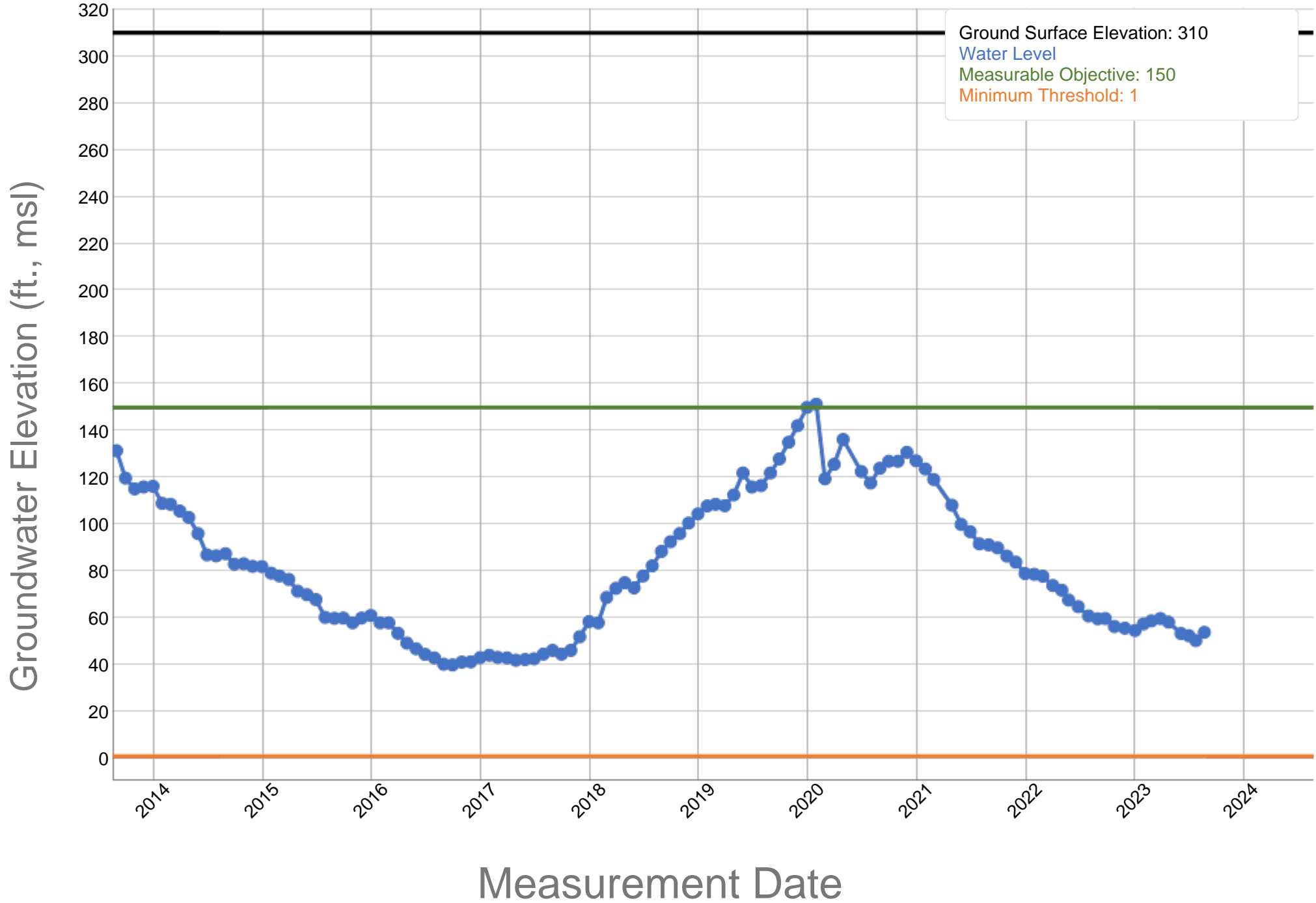
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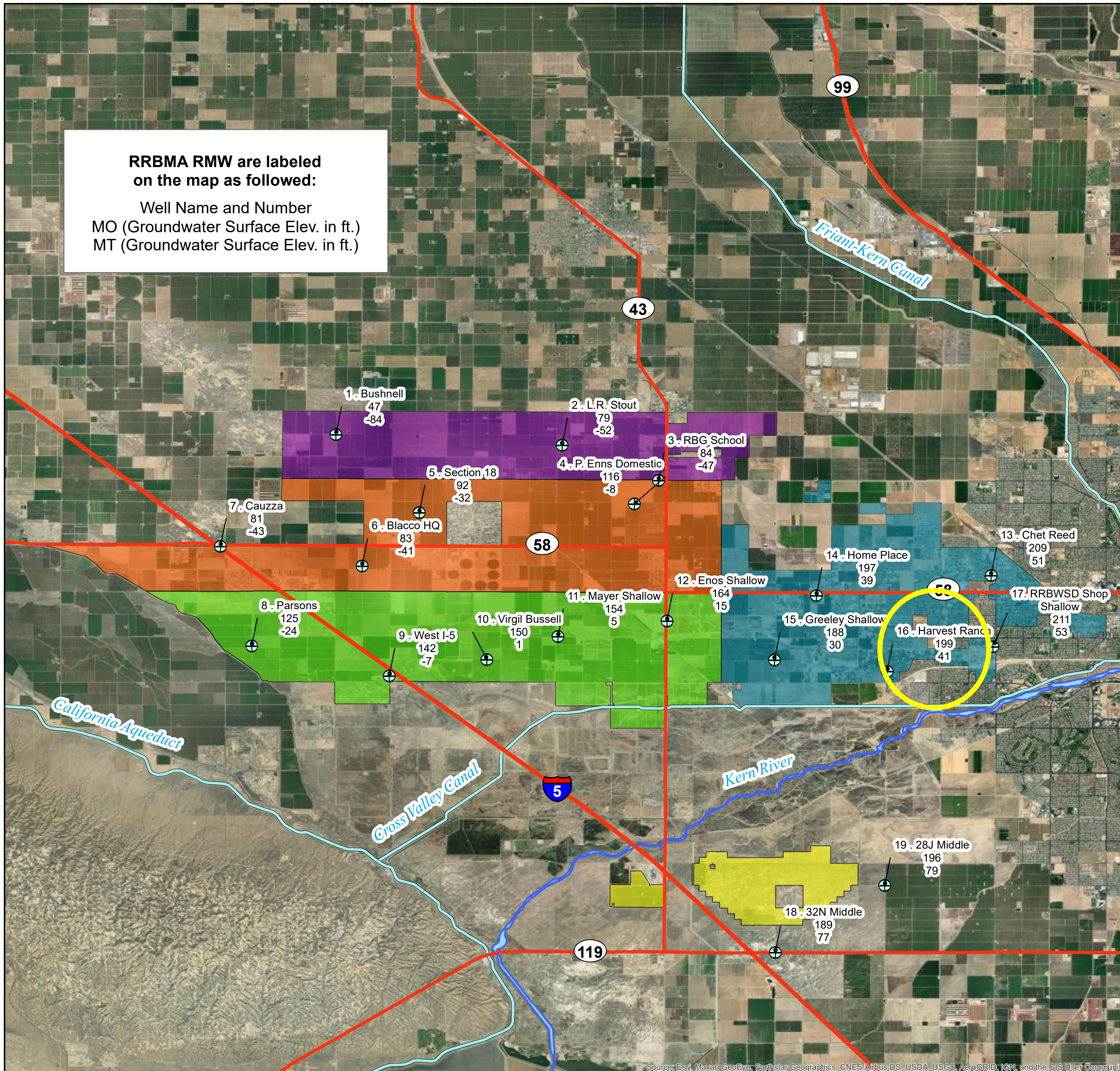


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Rosedale-Rio Bravo Water Storage District - Virgil Bussell - 353619N1193099W001



RRBMA Monitoring Areas - RMW Water Level MOs and MTs



Legend

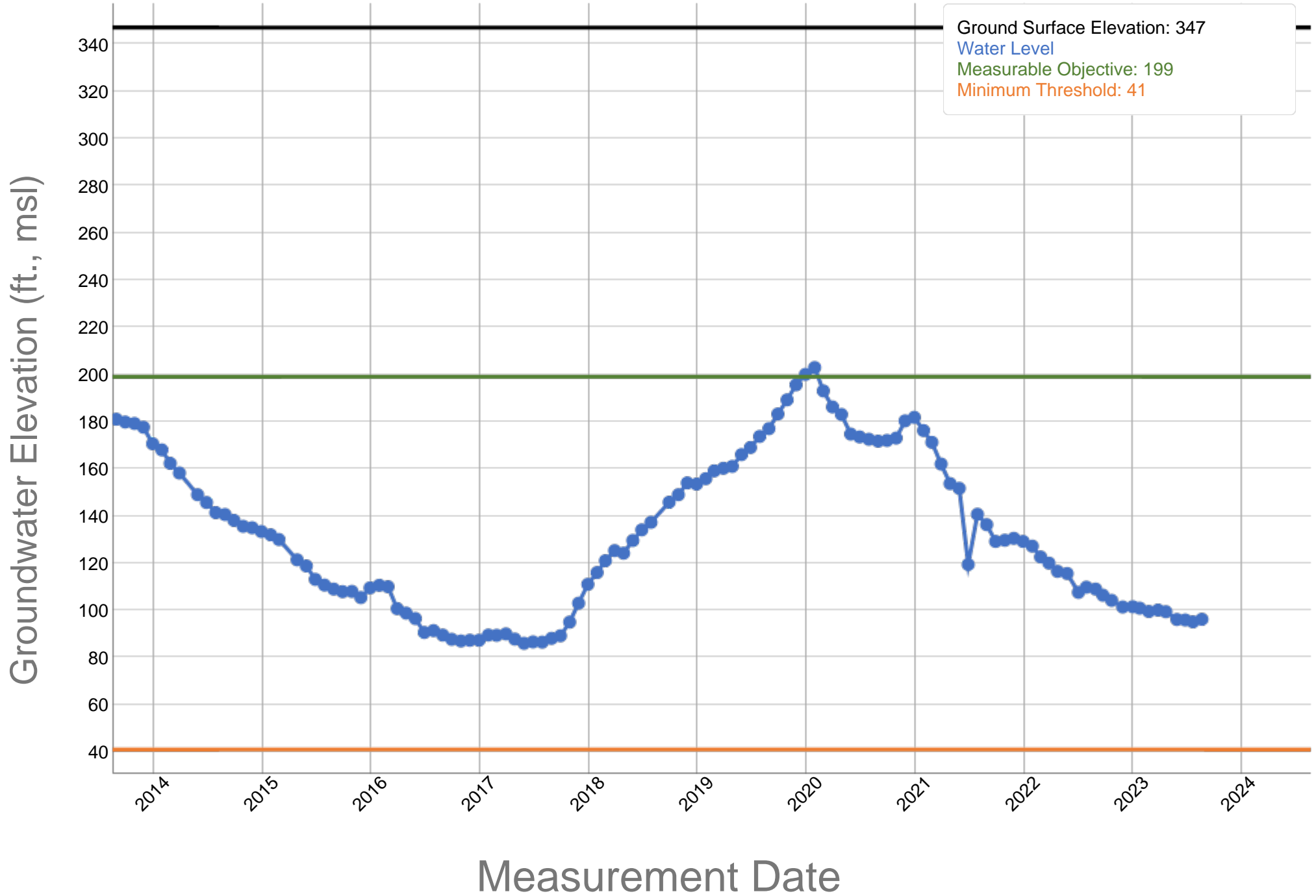
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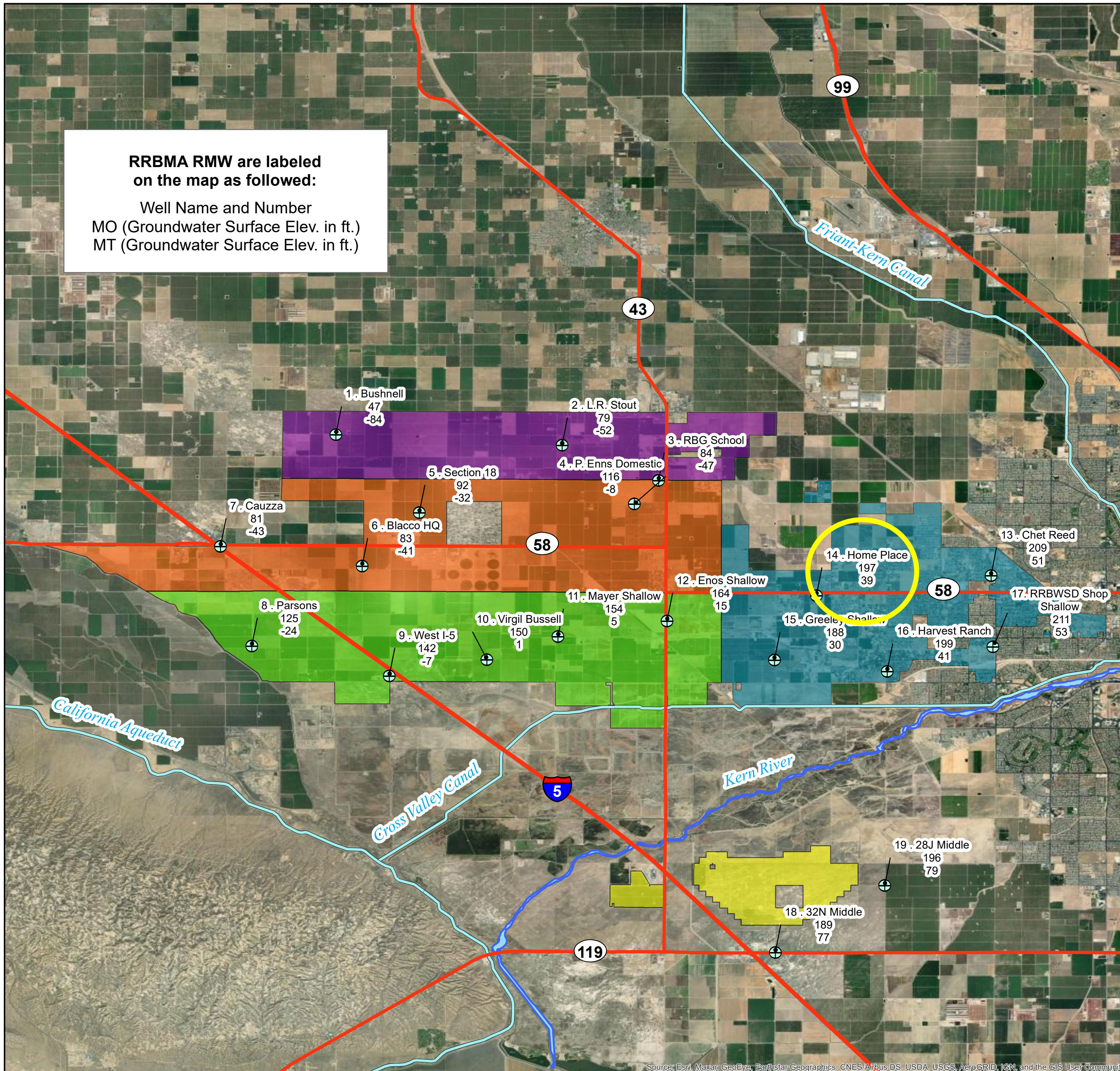


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Rosedale-Rio Bravo Water Storage District - Harvest Ranch - 353634N1191766W001



RRBMA Monitoring Areas - RMW Water Level MOs and MTs



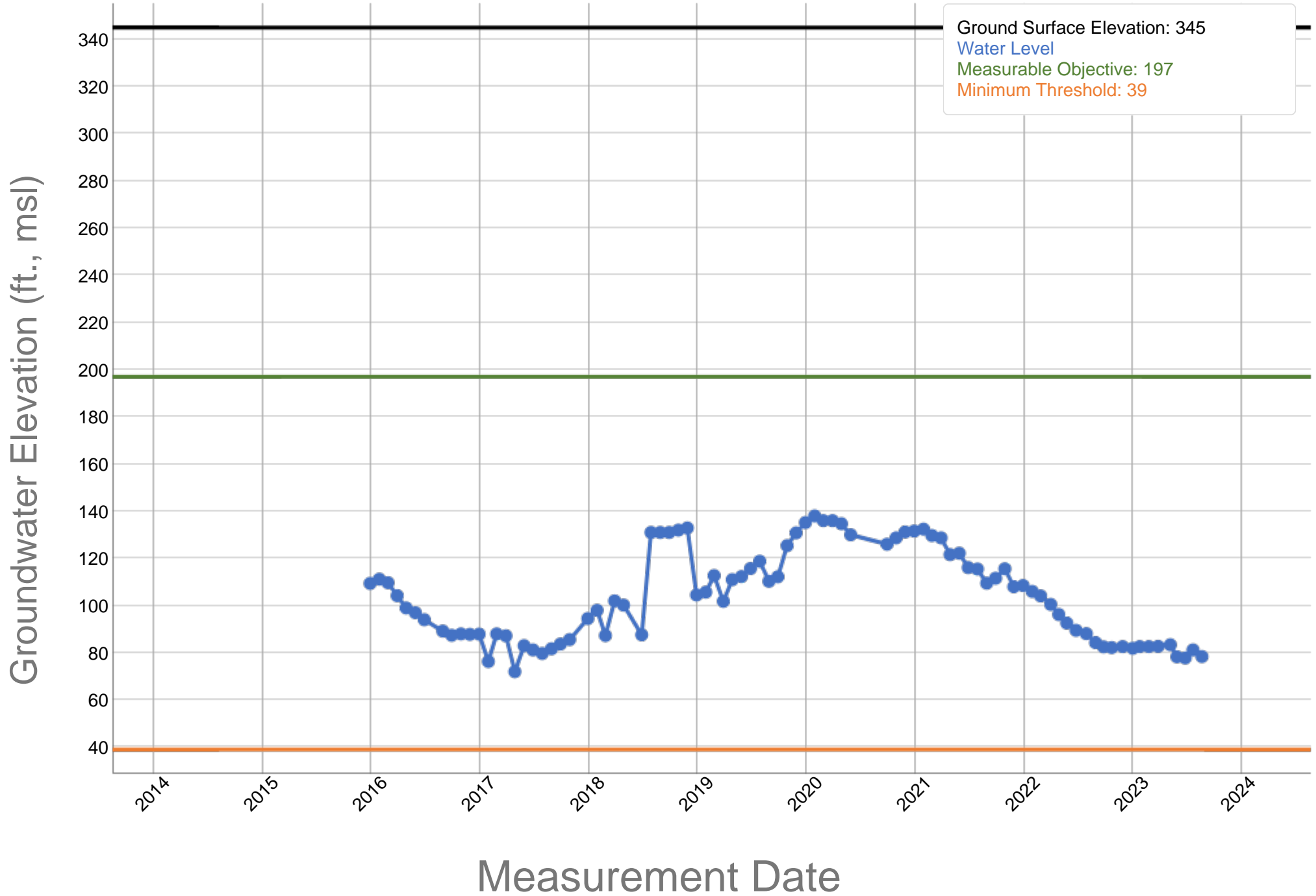
Legend

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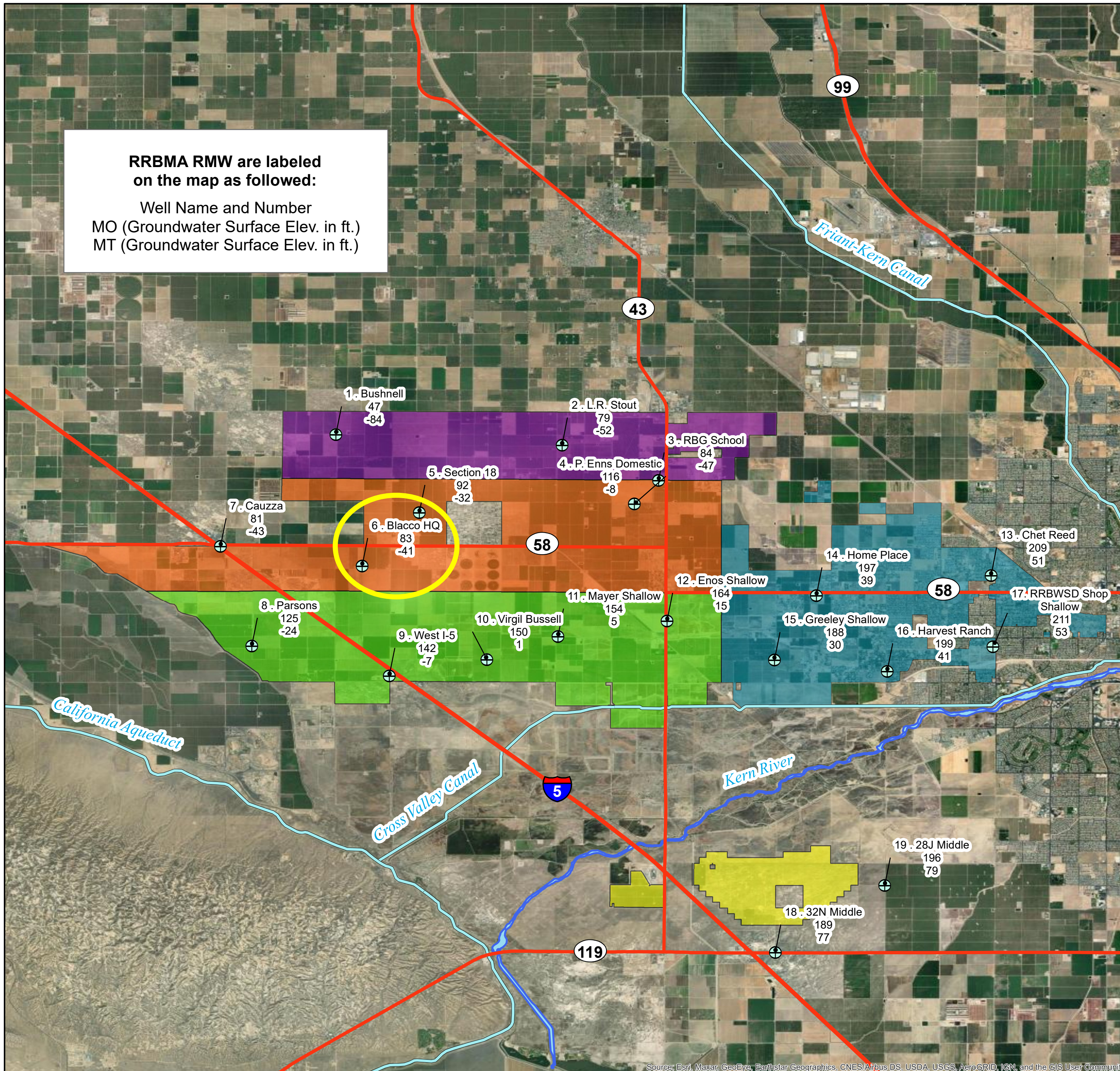
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Rosedale-Rio Bravo Water Storage District - Home Place - 353824N1192035W001



RRBMA Monitoring Areas - RMW Water Level MOs and MTs



Legend

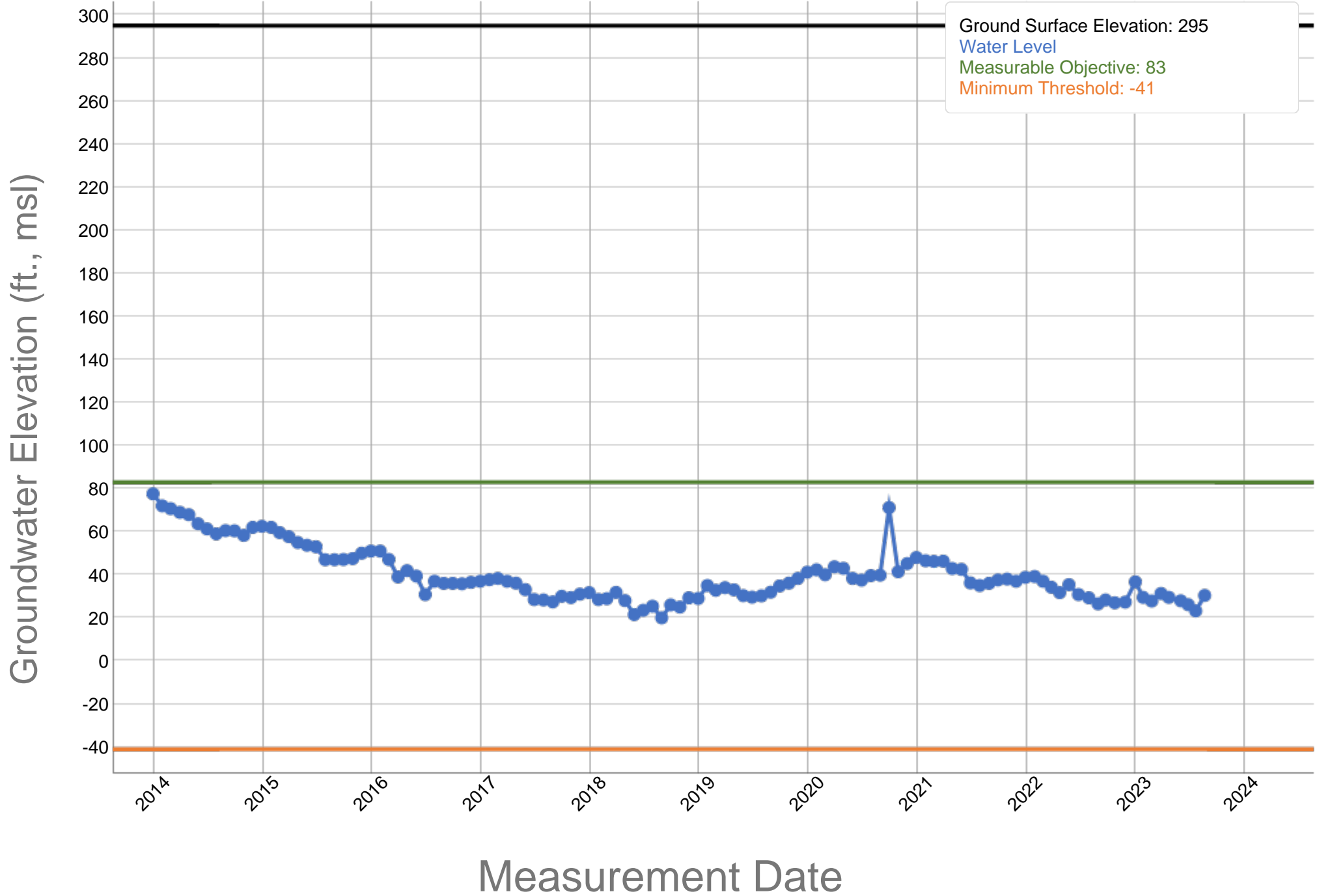
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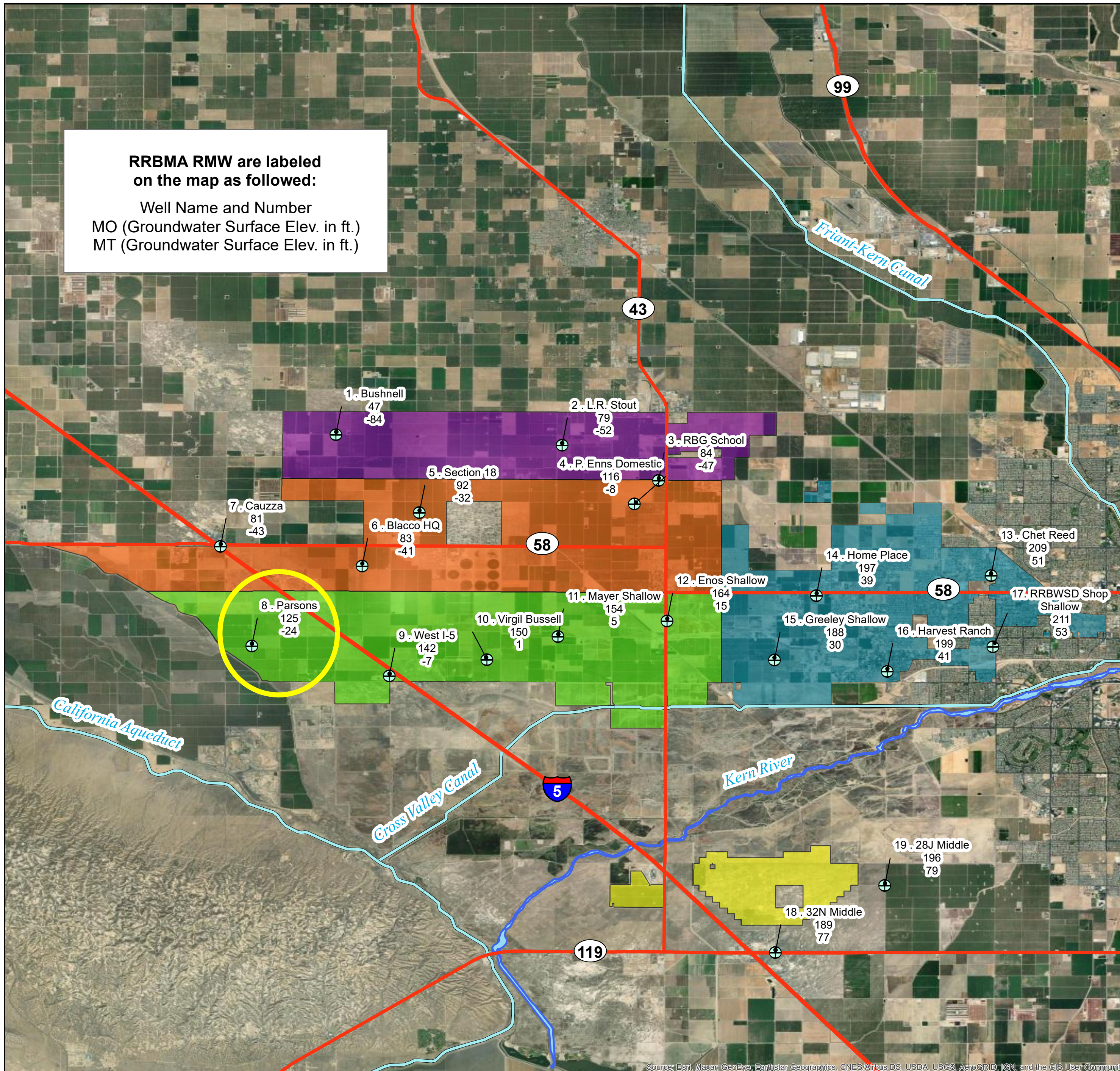


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Rosedale-Rio Bravo Water Storage District - Blacco HQ - 353915N1193454W001



RRBMA Monitoring Areas - RMW Water Level MOs and MTs



Legend

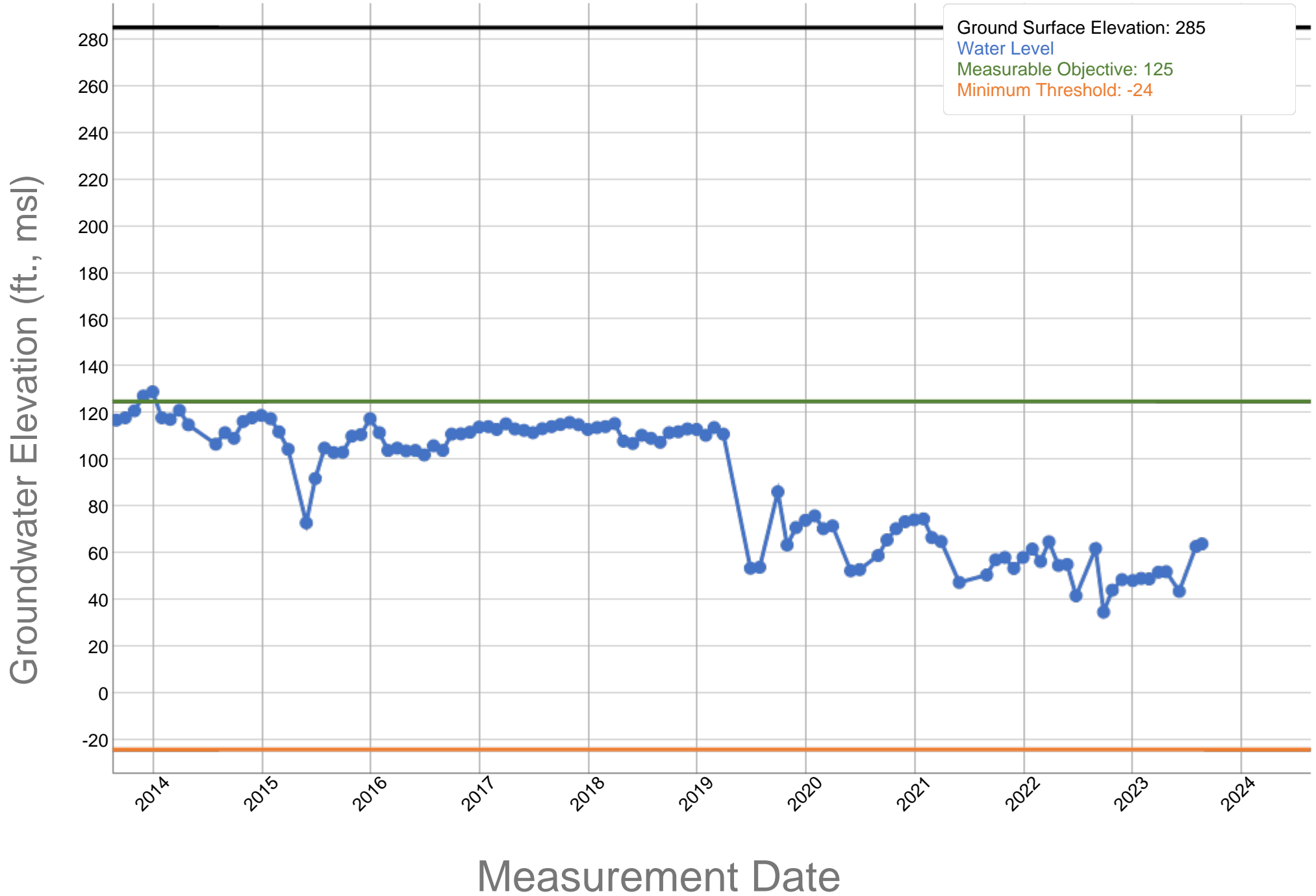
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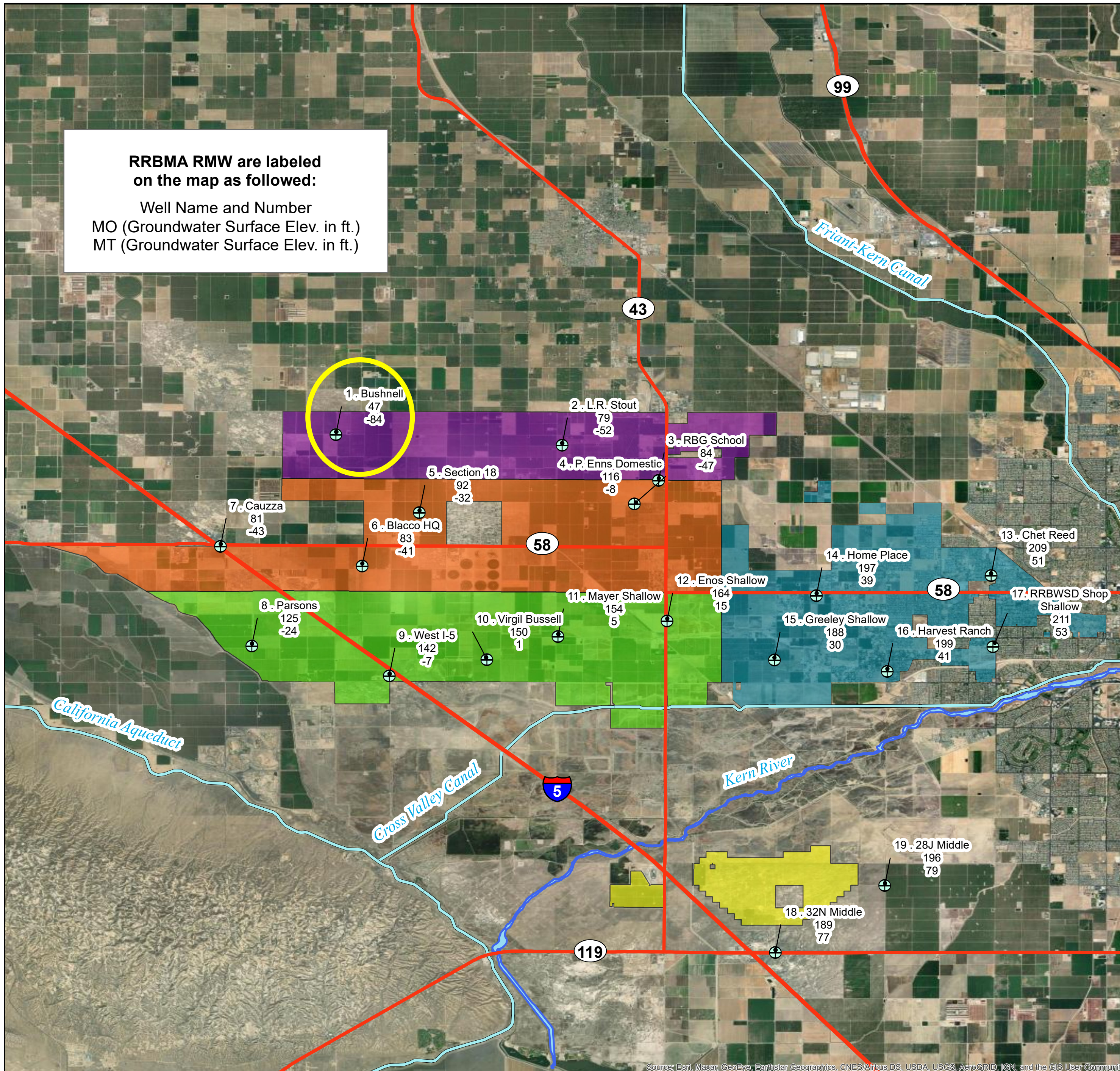


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Rosedale-Rio Bravo Water Storage District - Parsons - 353663N1193859W001



RRBMA Monitoring Areas - RMW Water Level MOs and MTs



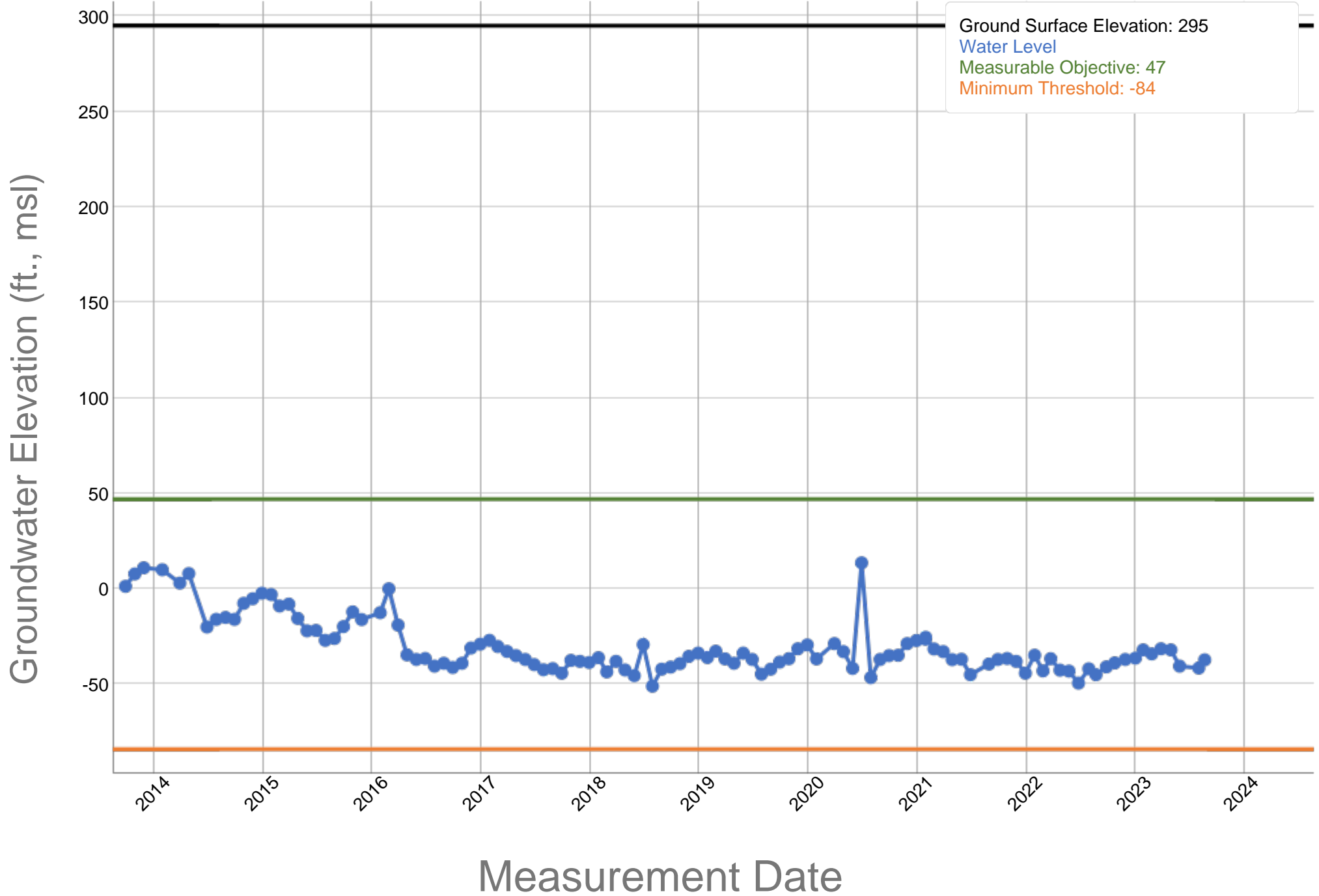
Legend

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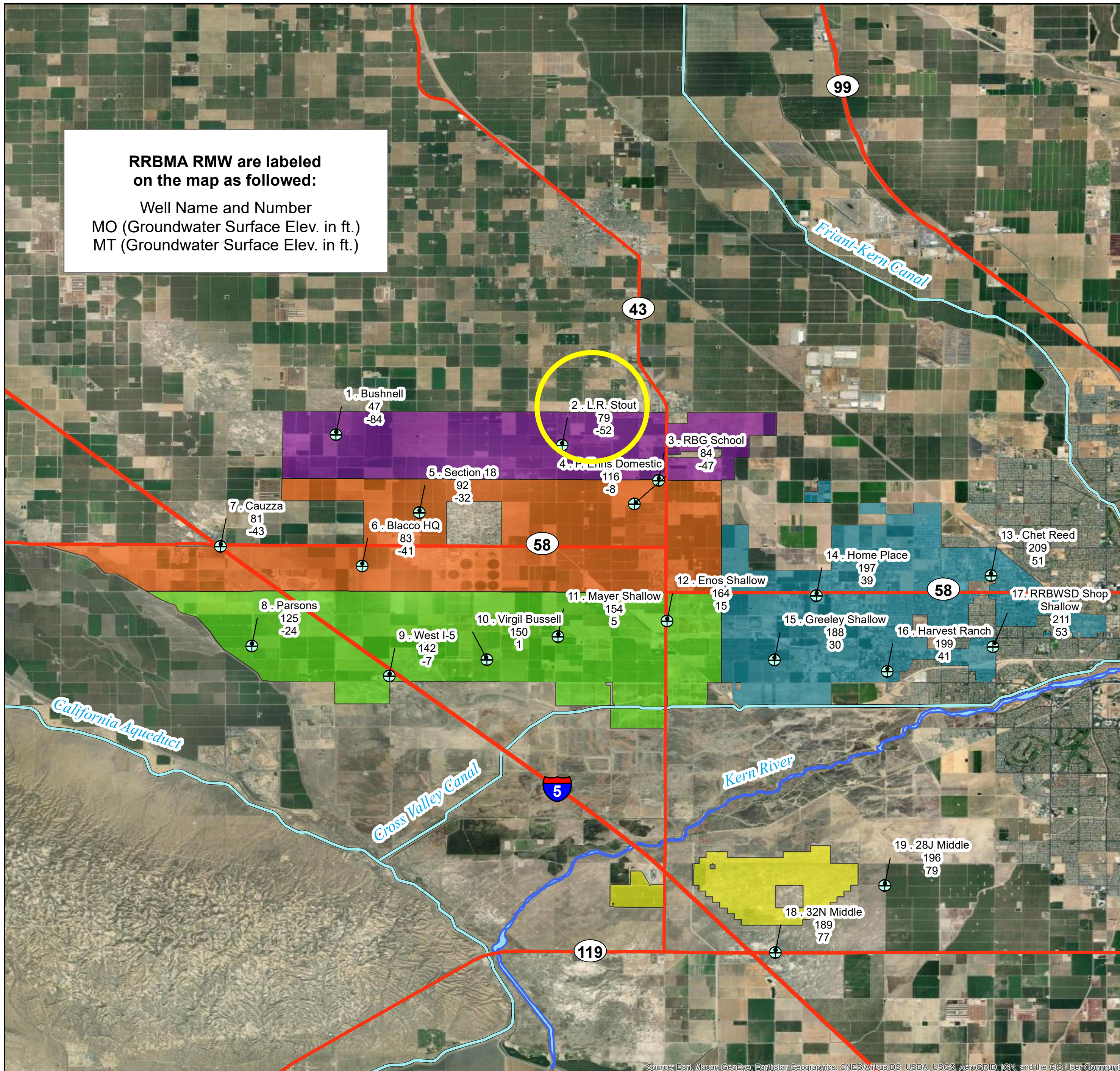
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Rosedale-Rio Bravo Water Storage District - Bushnell - 354350N1193586W001



RRBMA Monitoring Areas - RMW Water Level MOs and MTs



Legend

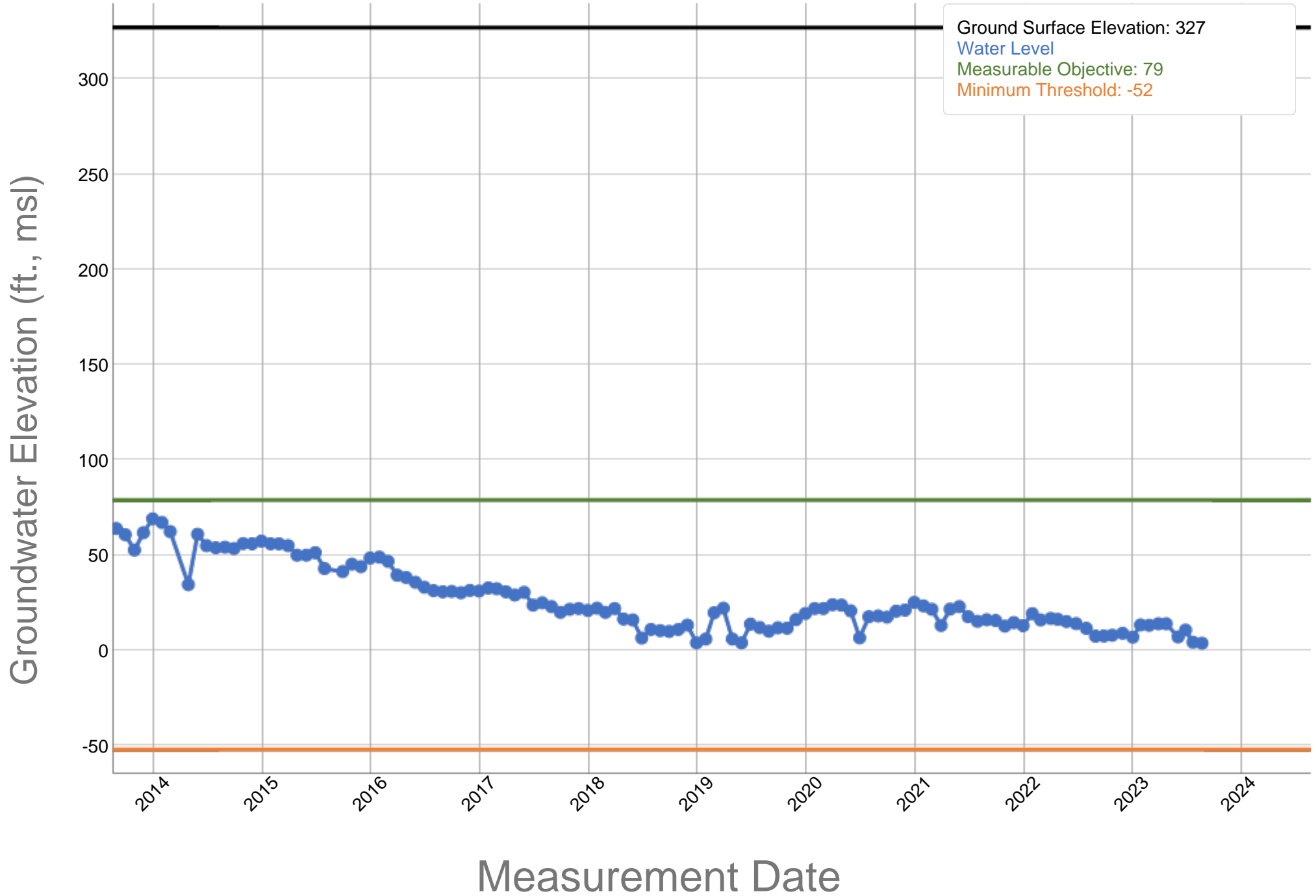
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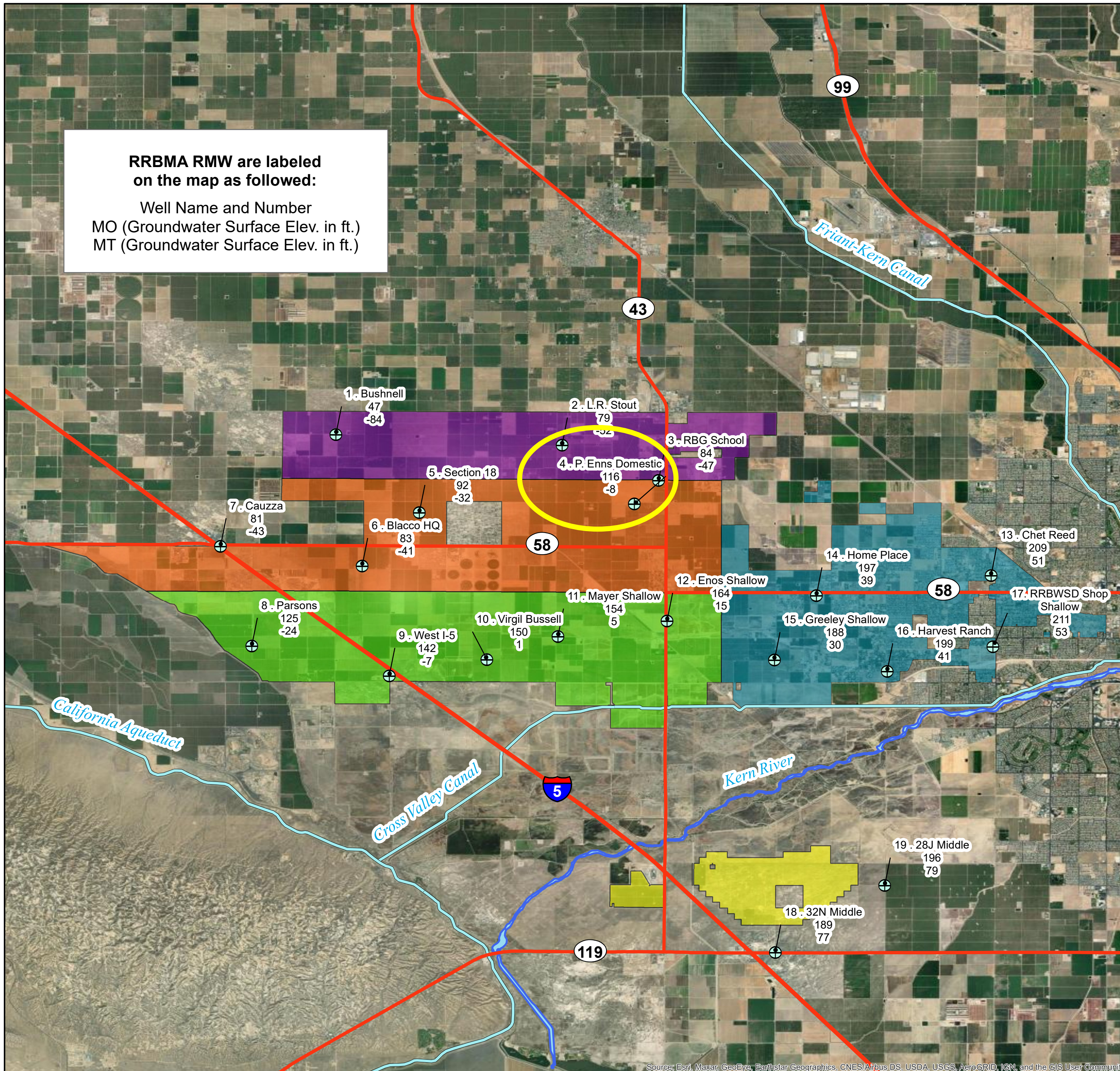


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Rosedale-Rio Bravo Water Storage District - L.R. Stout - 354309N1192859W001



RRBMA Monitoring Areas - RMW Water Level MOs and MTs



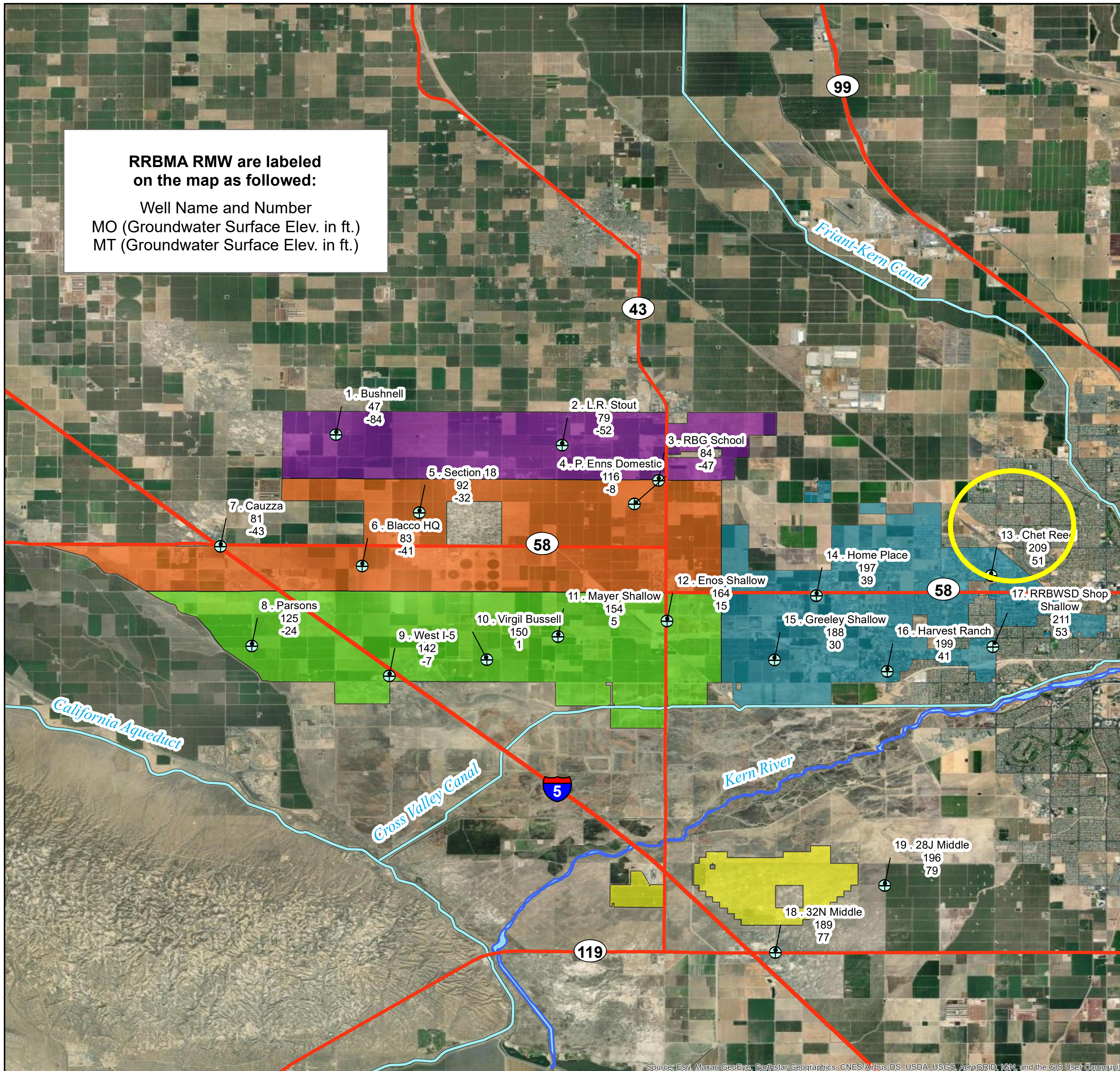
Legend

- ⊕ RRBMA RMW (Water Level)
- Major Highways
- Major Conveyance Facilities
- Kern River
- North Monitoring Area
- Central Monitoring Area
- South Monitoring Area
- East Monitoring Area
- South of the River Monitoring Area

*RMW = Representative Monitoring Well
 MO = Measurable Objective
 MT = Minimum Threshold*



RRBMA Monitoring Areas - RMW Water Level MOs and MTs



Legend

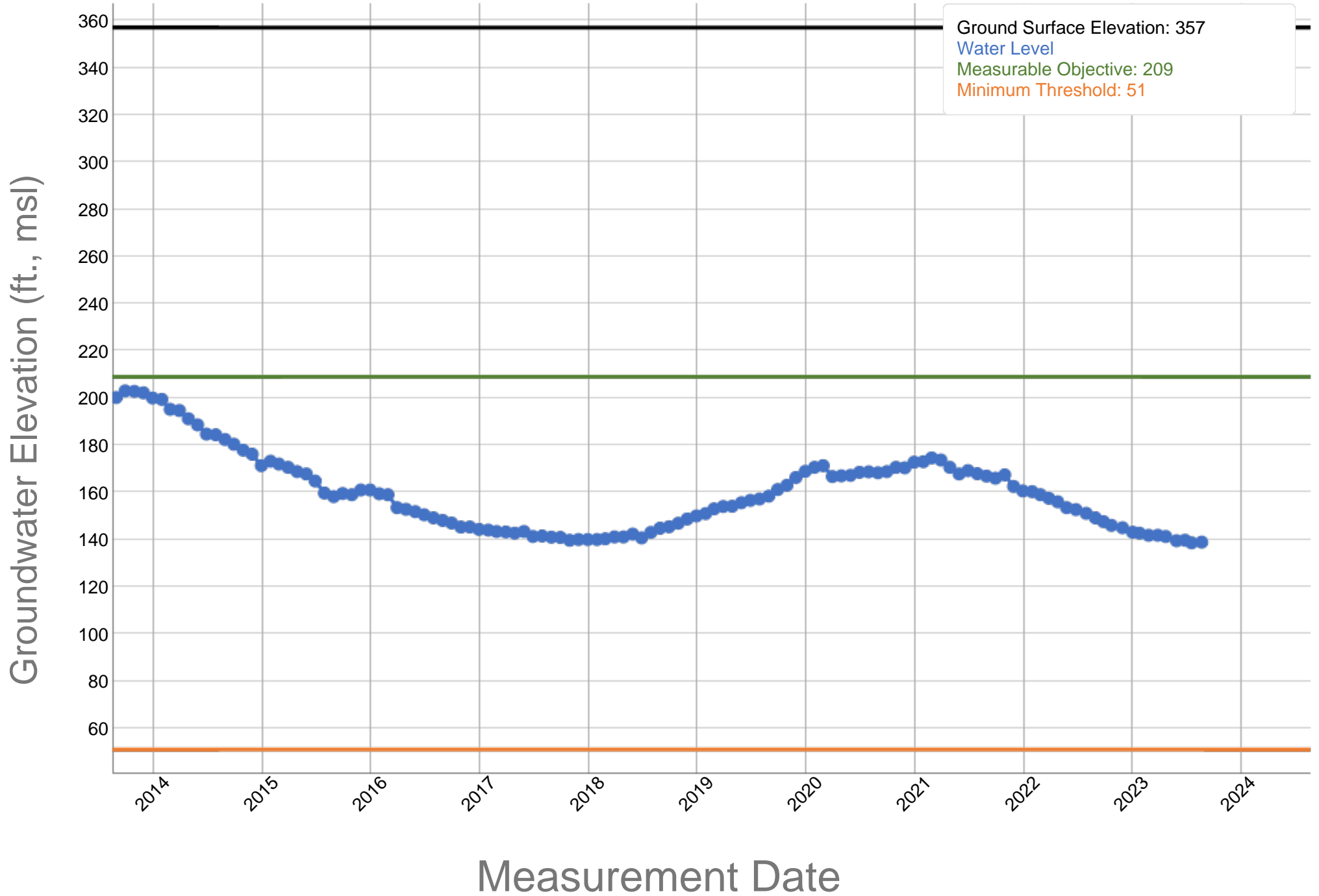
- ⊕ RRBMA RMW (Water Level)
- Major Highways
- Major Conveyance Facilities
- Kern River
- North Monitoring Area
- Central Monitoring Area
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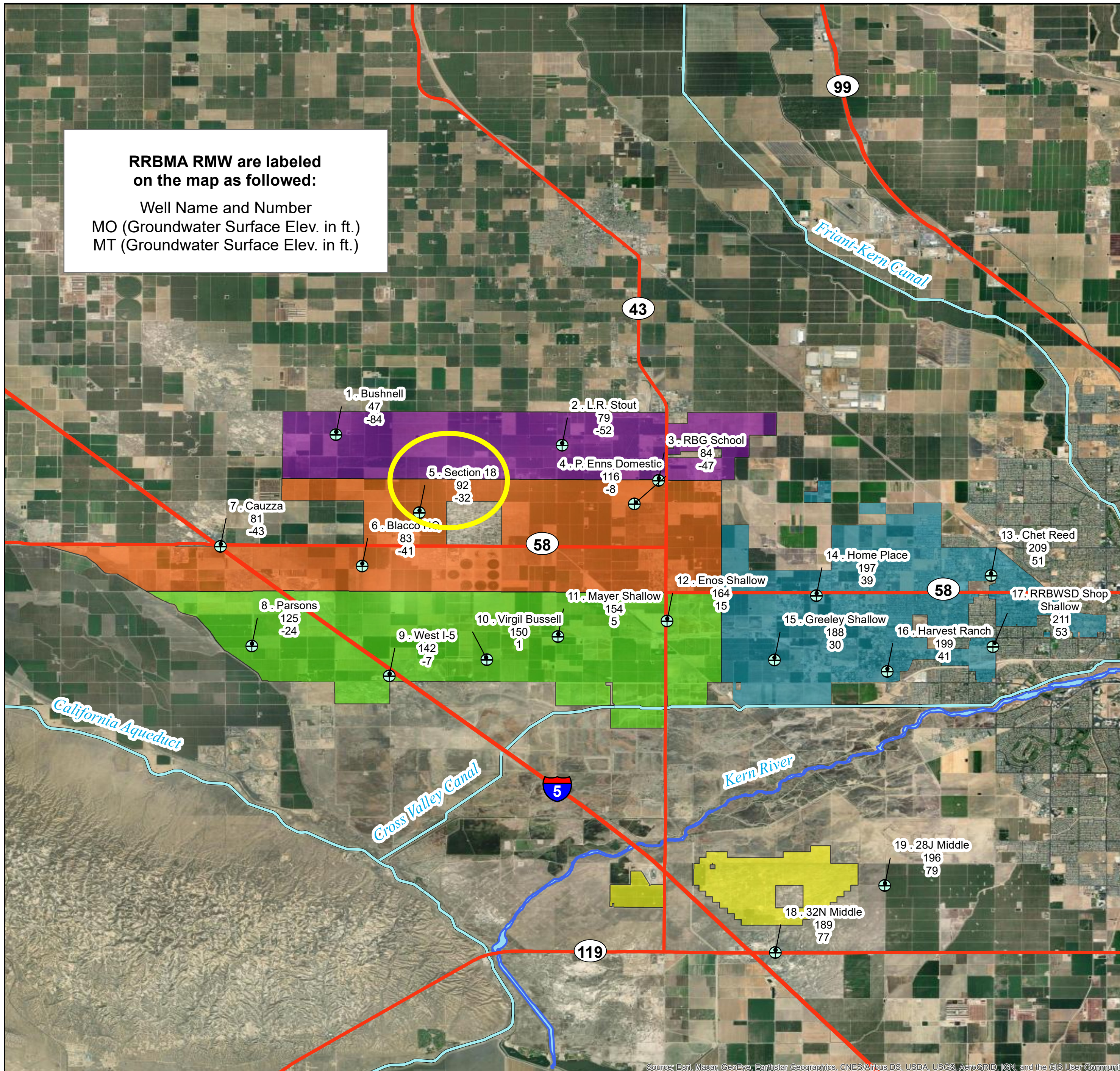


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Rosedale-Rio Bravo Water Storage District - Chet Reed - 353890N1191471W001



RRBMA Monitoring Areas - RMW Water Level MOs and MTs



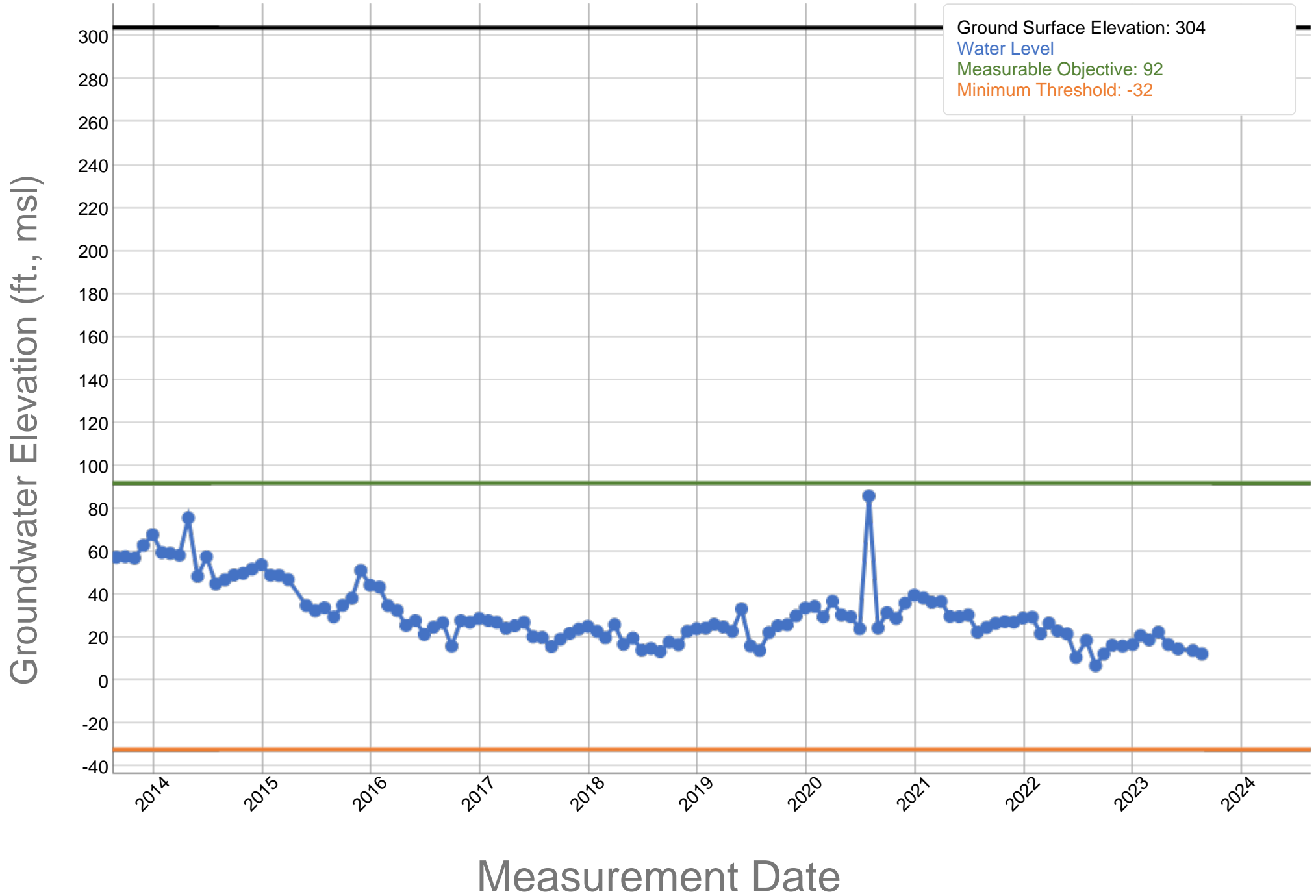
Legend

- ⊕ RRBMA RMW (Water Level)
- Major Highways
- Major Conveyance Facilities
- Kern River
- North Monitoring Area
- Central Monitoring Area
- South Monitoring Area
- East Monitoring Area
- South of the River Monitoring Area

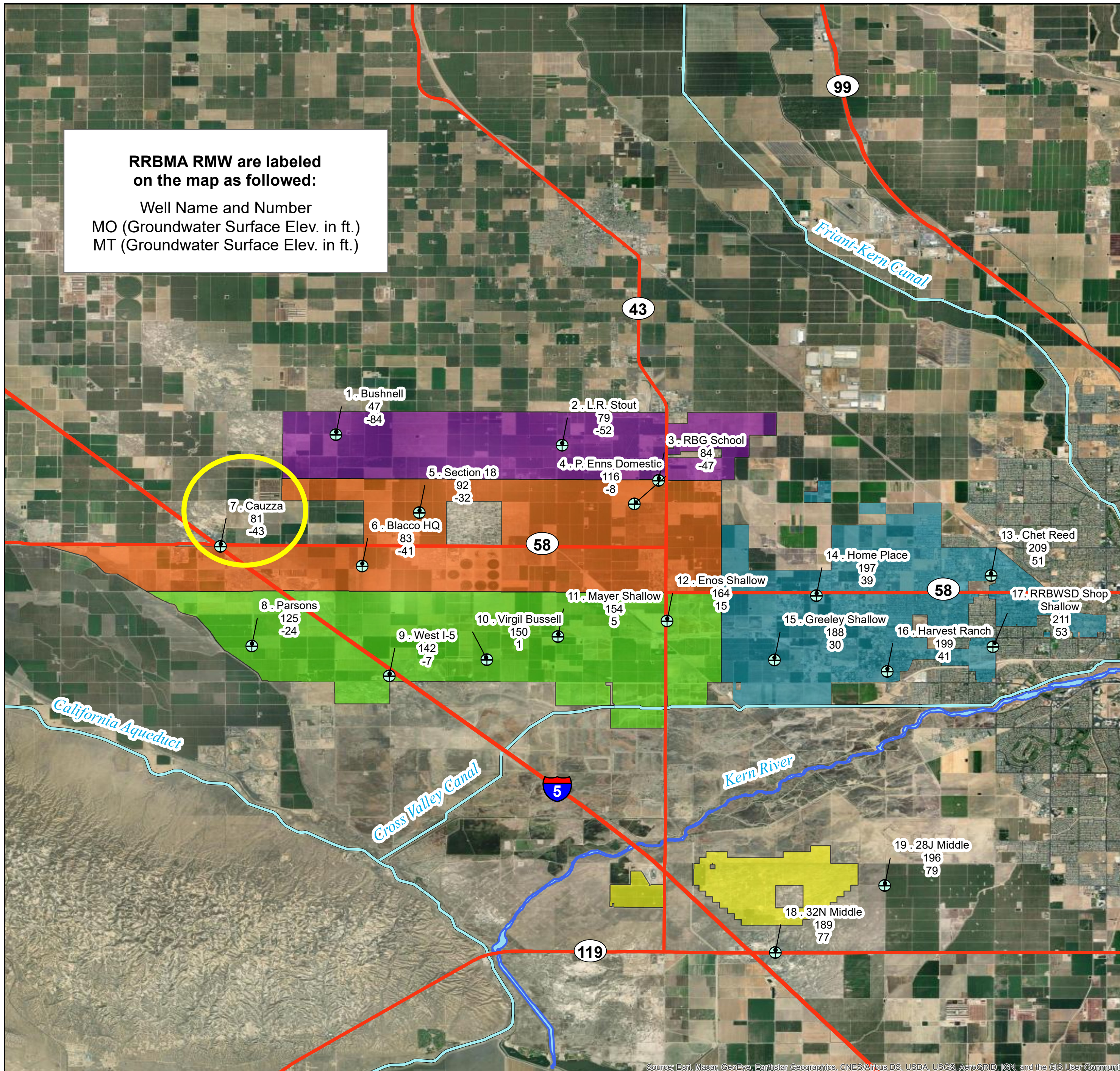
*RMW = Representative Monitoring Well
MO = Measurable Objective
MT = Minimum Threshold*



Rosedale-Rio Bravo Water Storage District - Section 18 - 354090N1193318W001



RRBMA Monitoring Areas - RMW Water Level MOs and MTs



Legend

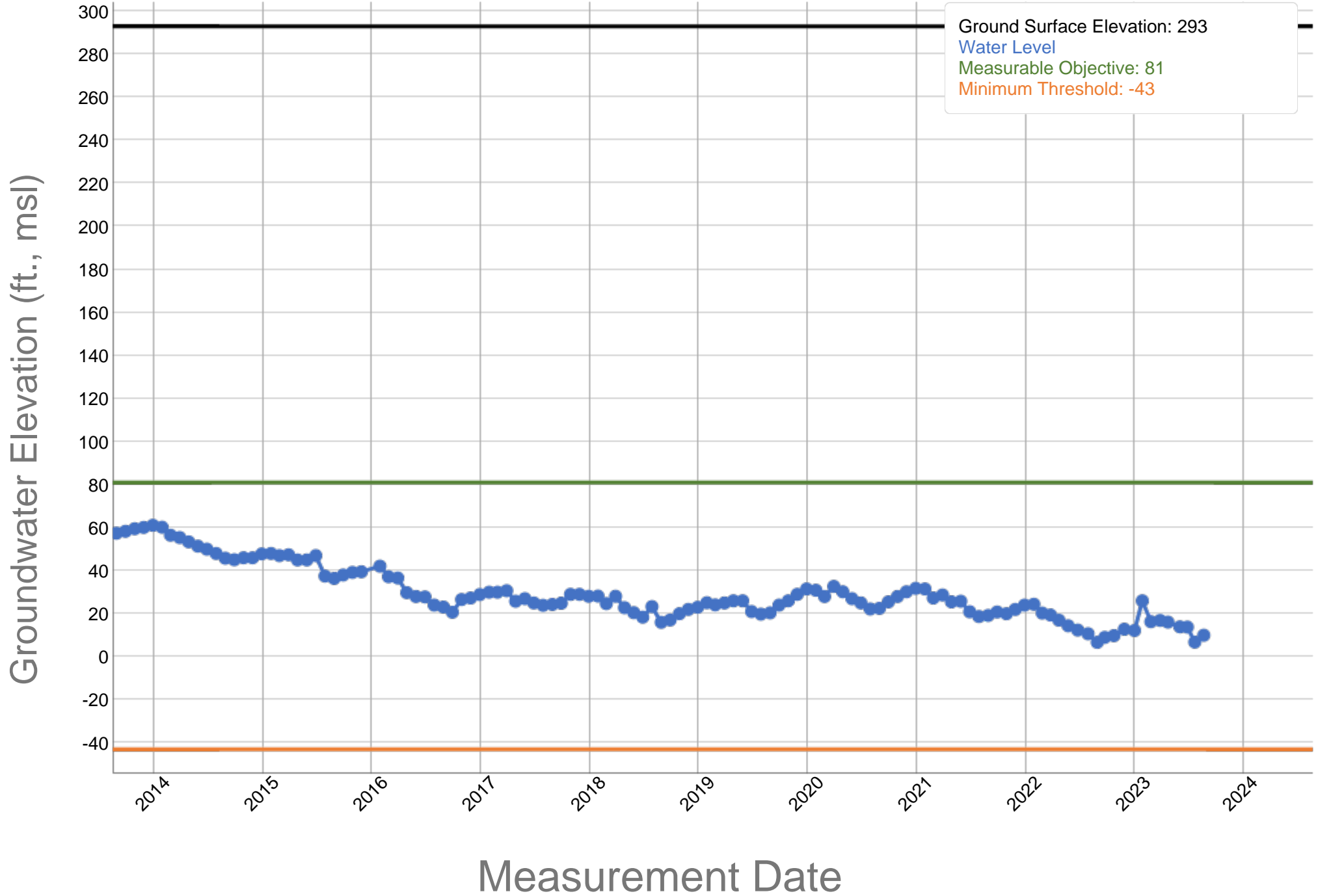
- ⊕ RRBMA RMW (Water Level)
- Major Highways
- Major Conveyance Facilities
- Kern River
- North Monitoring Area
- Central Monitoring Area
- South Monitoring Area
- East Monitoring Area
- South of the River Monitoring Area

*RMW = Representative Monitoring Well
MO = Measurable Objective
MT = Minimum Threshold*

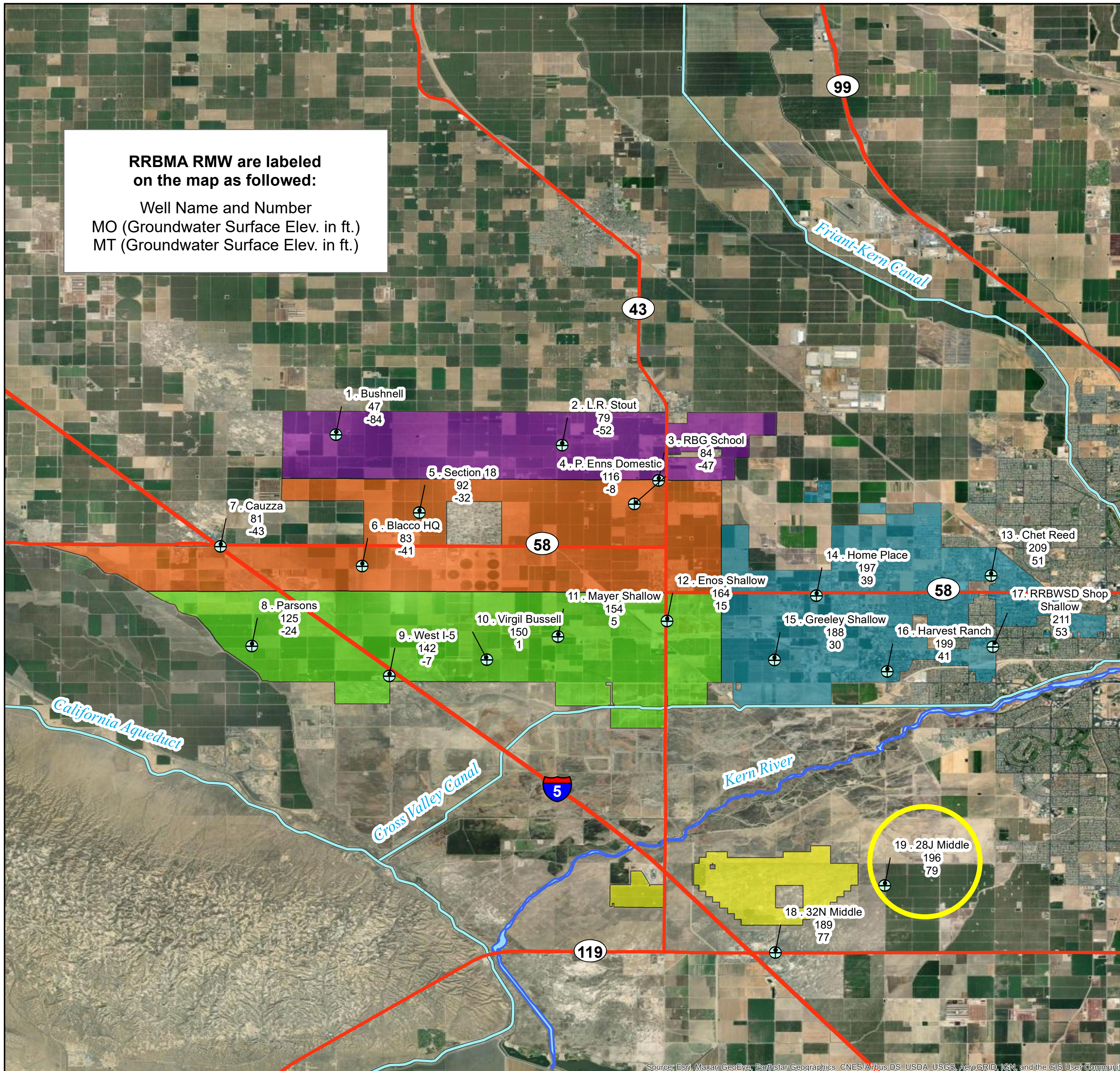


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Rosedale-Rio Bravo Water Storage District - Cauzza - 353986N1193948W001



RRBMA Monitoring Areas - RMW Water Level MOs and MTs



Legend

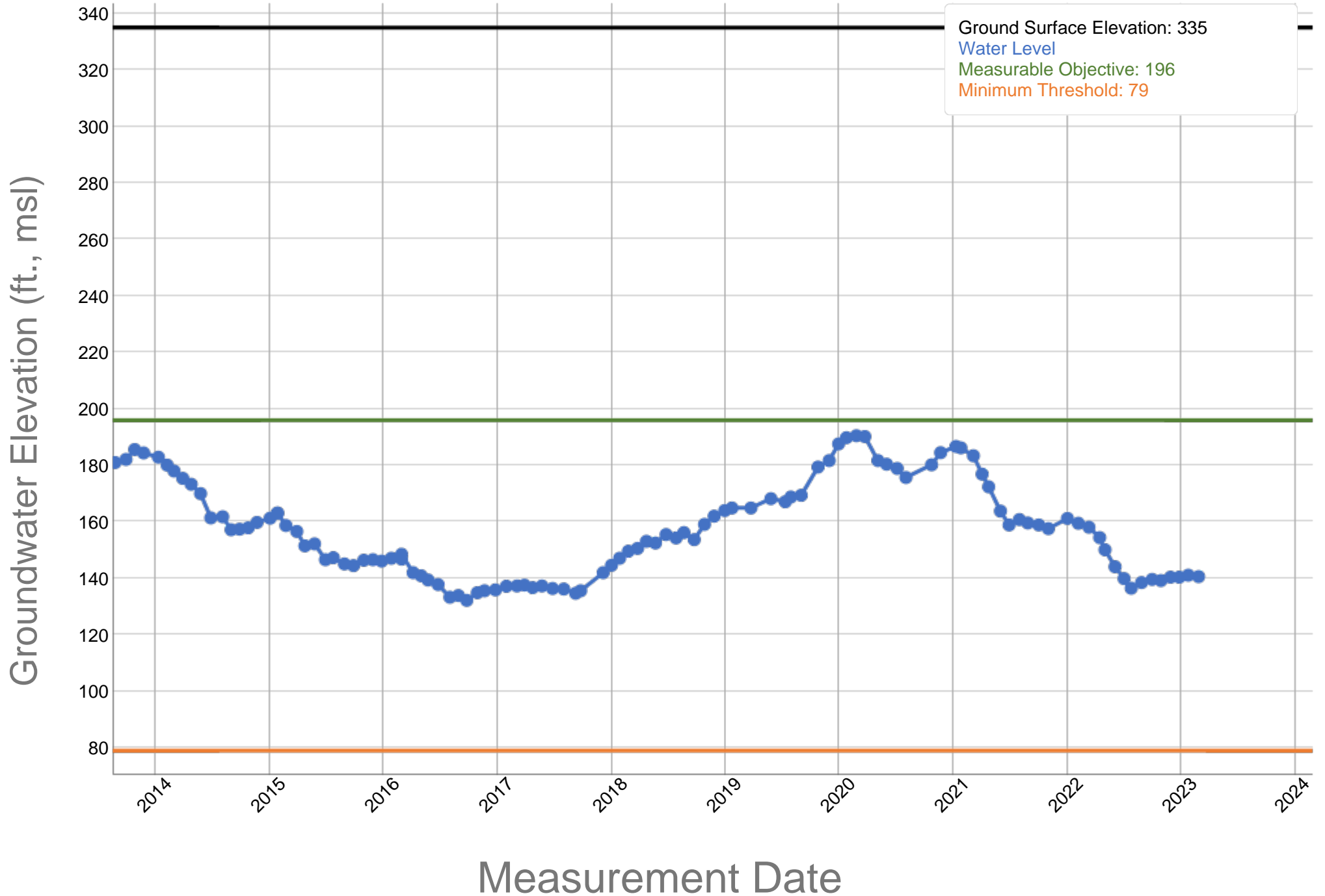
- ⊕ RRBMA RMW (Water Level)
- Major Highways
- Major Conveyance Facilities
- Kern River
- North Monitoring Area
- Central Monitoring Area
- South Monitoring Area
- East Monitoring Area
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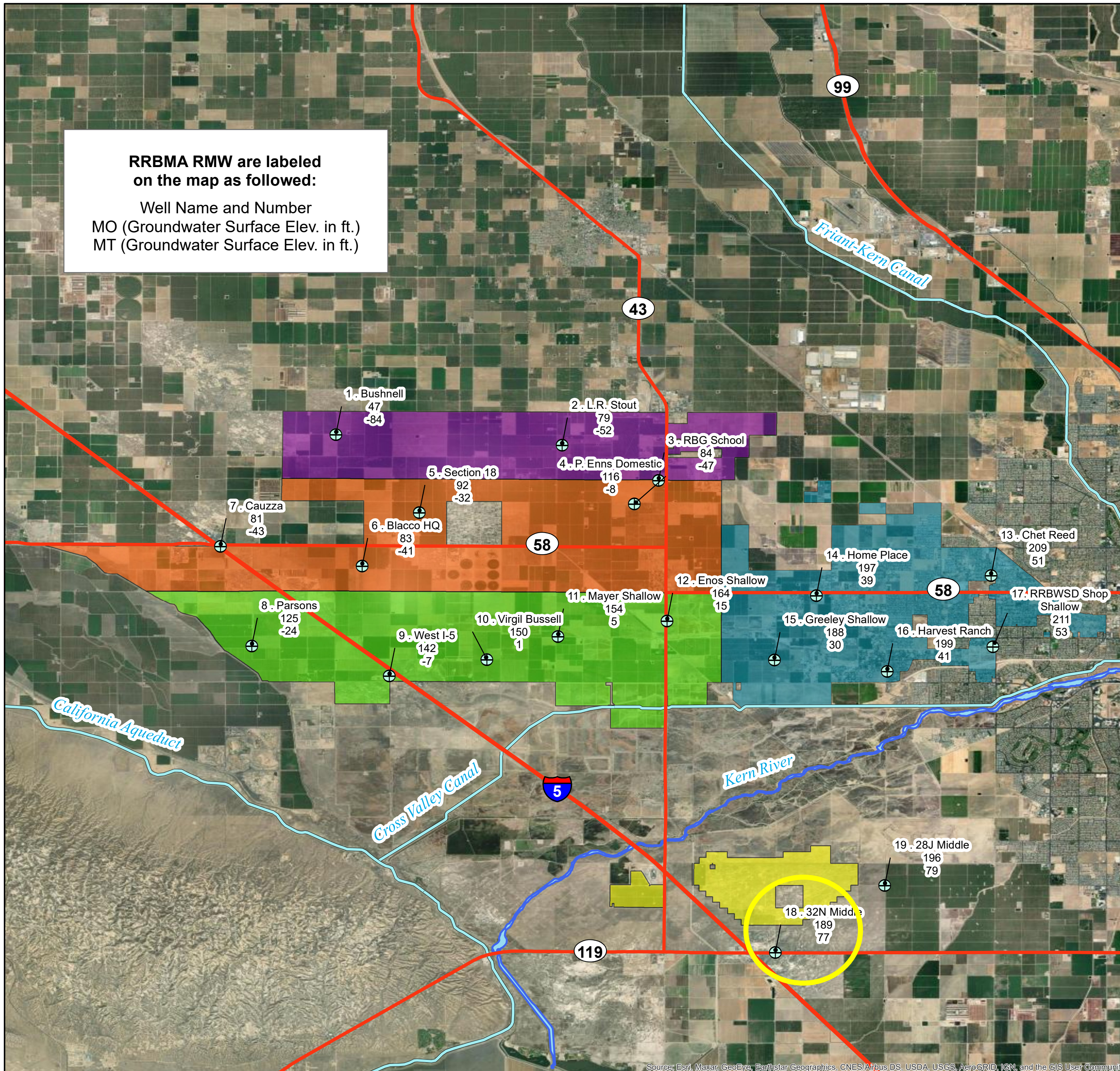


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Rosedale-Rio Bravo Water Storage District - 28J Triple - 352889N1191814W001



RRBMA Monitoring Areas - RMW Water Level MOs and MTs



Legend

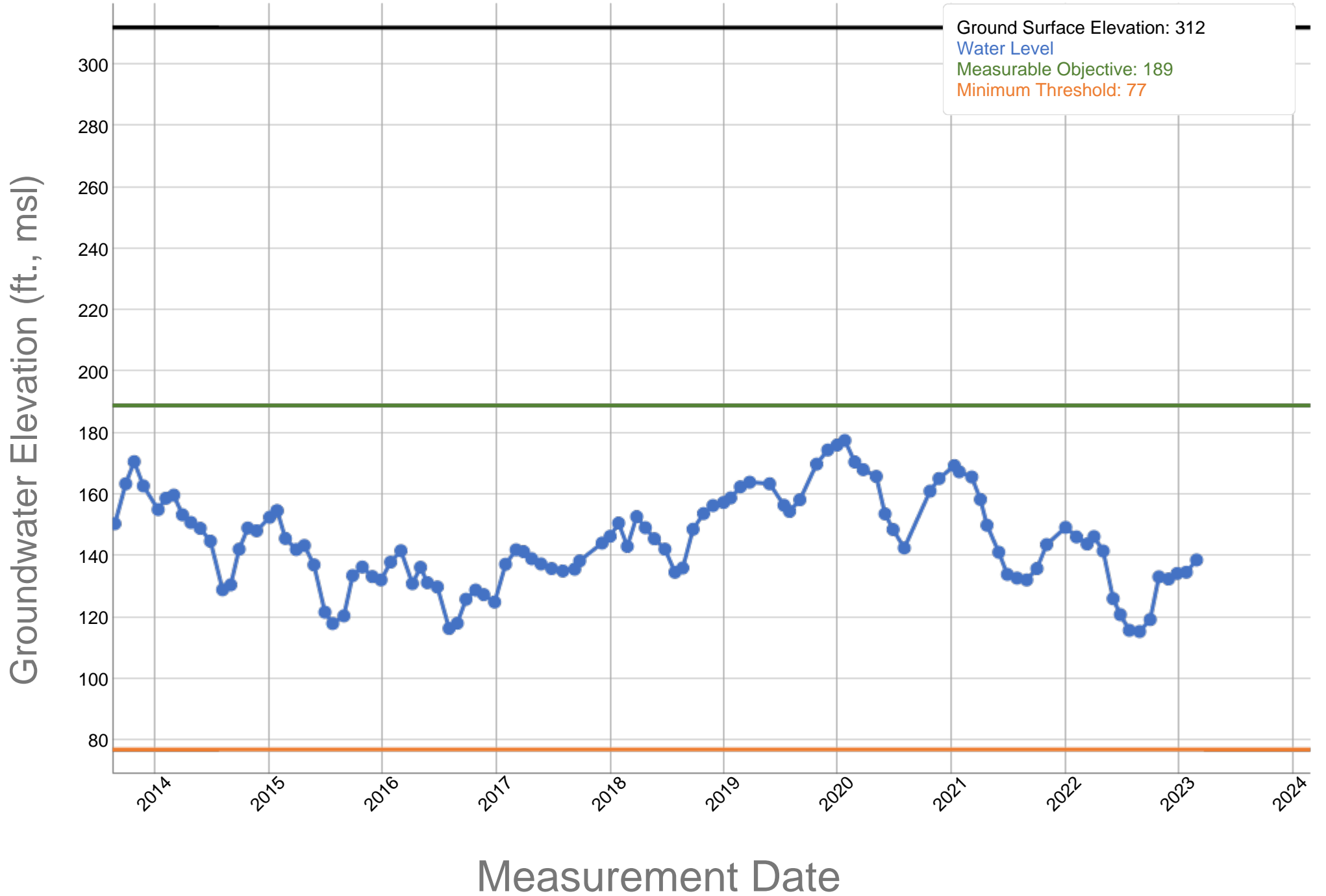
- ⊕ RRBMA RMW (Water Level)
- Major Highways
- Major Conveyance Facilities
- Kern River
- North Monitoring Area
- Central Monitoring Area
- South Monitoring Area
- East Monitoring Area
- South of the River Monitoring Area

*RMW = Representative Monitoring Well
 MO = Measurable Objective
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Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Rosedale-Rio Bravo Water Storage District - 32N Triple - 352673N1192138W002



TO: Rosedale-Rio Bravo Water Storage District Board of Directors
Agenda Item 7.a.i

FROM: Dan W. Bartel

DATE: August 11, 2023

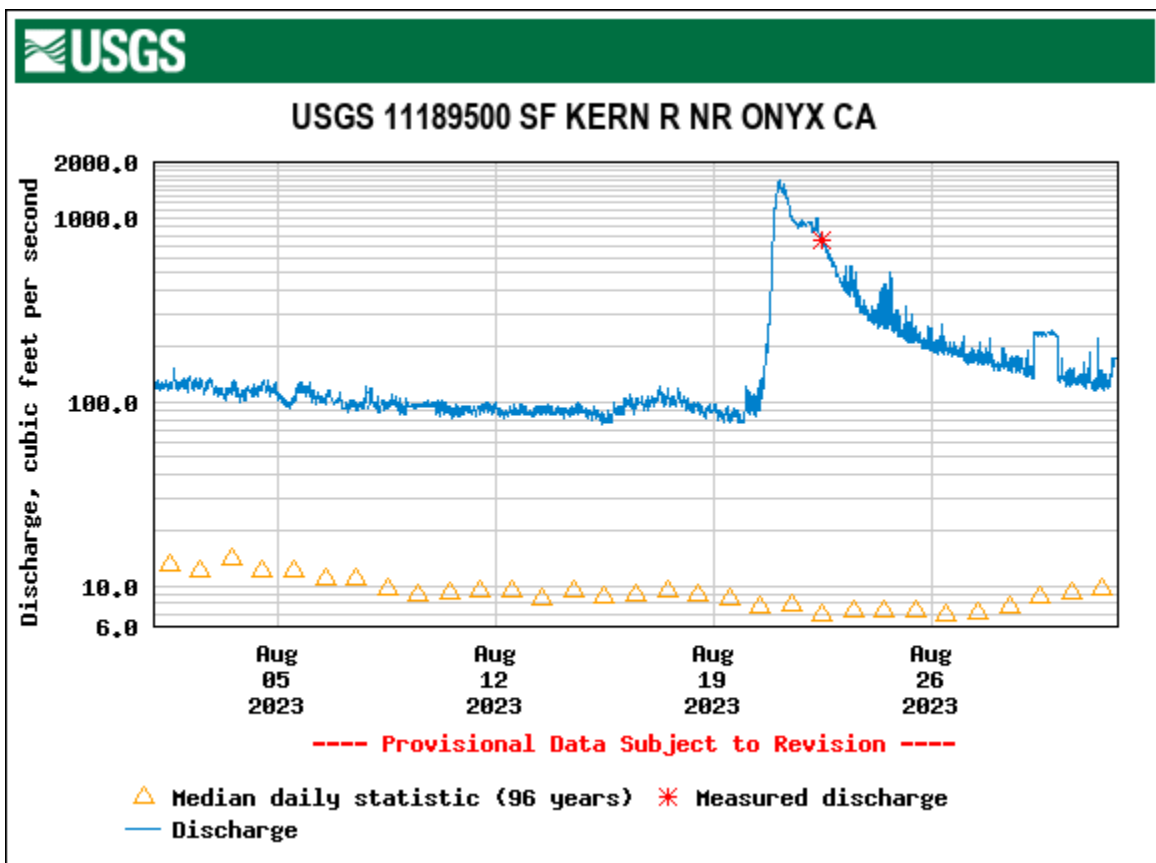
RE: Onyx Ranch Operations Report

Discussion:

Staff has:

- Continued operation of non-project conveyance
- Completed repair of March flood damages on Nicoll Ditch and filed emergency Notification.
- Hunter’s Cabin and Store CLOSED ESCROW!!!
- Made good progress on fencing projects.
- Paused project flows August 19 due to Hurricane Hilary dumping 4” of rain the SF Valley; operations were communicated to Watermaster, COB, and KCWA.

South Fork flows downstream of Bloomfield averaged 197 cfs plus calculated accretions of 10 cfs, for a total average flow of about 207 cfs. Hilary flood flows peaked August 21 at 1540 cfs and caused some damage.



South Fork Kern River Monthly Measurement Report

August-2023

Daily values in SFD = Second Foot Days, Monthly total in AF = Acre-Feet

Date	South Fork			D.Prince (4,5,17,20-22,37)			Hafenfeld (5)			RRBWSD (1,3,6,7,12, Wirth1, 30,33, Boone)				J.Nicoll (3)	Audubon (4,5,9,Wirth1,17,18) (20-22,Wirth2,27,29,37)		Smith (Smith)	Total Diverted	South Fork		RRBWSD to Isabella	
	Mean Flow	USGS - Onyx @ 0500	Accretions	Doyle Ranch Road	Mill/Hillside	Miller	Prince	Miller	Landers	Cottonwood	Scodie/Mack	Landers	Nicoll	Redirected "Gross Project Water"	Nicoll	Cottonwood	Nicoll		Smith	Sierra Way "Flow"		Patterson "Flow"
1	123	122	7		6.3	7.0	6.3						31	5.4	8.0		5.4	38	Yes	Yes	27	
2	124	122	7		6.3	7.5	6.3						31	5.4	8.0		5.3	39	Yes	Yes	27	
3	113	112	7		6.3	7.5	6.3						31	5.3	8.0		4.9	38	Yes	Yes	27	
4	116	109	7		6.3	7.0	6.3						31	5.2	8.0		6.0	39	Yes	Yes	27	
5	105	105	7		6.0	7.0	6.0						31	5.1	8.0		5.6	38	Yes	Yes	27	
6	106	108	7		6.0	7.0	6.0						31	5.1	7.0		5.4	37	Yes	Yes	27	
7	98	92	7		6.0	7.0	6.0						31	5.0	7.0		4.9	36	Yes	Yes	27	
8	97	92	7		6.0	7.0	6.0						31	4.9	8.0		4.8	37	Yes	Yes	27	
9	95	95	7		6.0	6.5	6.0						31	4.9	8.0		4.8	36	Yes	Yes	27	
10	90	91	7		6.0	6.5	6.0						31	4.9	8.0		4.5	36	Yes	Yes	27	
11	92	88	7		5.5	6.0	5.5						31	4.9	7.0		4.5	33	Yes	Yes	27	
12	89	86	7	82	5.5	7.0	5.5						31	4.7	8.0		4.4	35	Yes	Yes	27	
13	89	84	7		5.5	6.5	5.5						31	4.8	8.0		4.2	35	Yes	Yes	27	
14	89	89	7		6.0	6.0	6.0						31	4.8	7.0		4.4	34	Yes	Yes	27	
15	85	88	13		6.0	6.5	6.0						31	4.8	9.0		4.4	37	Yes	Yes	27	
16	97	104	13		6.3	9.5	6.2					7.5	31	4.8	9.0		4.8	43	Yes	Yes	27	
17	104	102	13		6.0	7.8	6.0					8.0	31		8.5		5.4	42	Yes	Yes	27	
18	93	91	13		6.0	7.9	6.0					7.4	31		10.0		4.7	42	Yes	Yes	27	
19	84	83	13		6.0	5.9	6.0					7.4	0		8.5		3.8	38	Yes	Yes	0	
20	241	108	13		0.0	8.7	0.0					0.0	0		0.0		0.0	9	Yes	Yes	0	
21	1135	1360	13		0.0	11.3	0.0					0.0	0		0.0		0.0	11	Yes	Yes	0	
22	743	852	13		0.3	12.0	0.3						0		3.0		1.6	17	Yes	Yes	0	
23	390	436	13			1.2	0						0		3.0	3.4	2.1	10	Yes	Yes	0	
24	288	306	13			3.1	0						0		3.0	3.2	2.1	11	Yes	Yes	0	
25	222	215	13			3.0	0						0		5.0	2.8	2.1	13	Yes	Yes	0	
26	194	189	13			2.9	0						0		5.0	2.3	2.0	12	Yes	Yes	0	
27	173	170	13			2.5	0						0		5.0	2.1	2.0	12	Yes	Yes	0	
28	159	158	13			2.3	0						0		5.0	2.0	1.9	11	Yes	Yes	0	
29	207	155	13			2.5	0						0		5.0	2.0	1.8	11	Yes	Yes	0	
30	140	149	13			2.2	0						0		4.5	1.8	1.8	10	Yes	Yes	0	
31	138	129	13			2.3	0						0	1.7	4.5		3.8	12	Yes	Yes	0	
SFD	5,918	6,090	321		0	114	187	114	0	0	0	30	558	77	196	20	113	851	0	194	480	
AF	11,739	12,080	637		0	226	371	226	0	0	0	60	1,107	152	389	39	225	1,688	0	385	952	
		196.5	10.4			597							226				428		27		9.70	24.0
														152				225				

Note: Redirected Historic Irrigation Demand Limit = 31 Cottonwood via Landers Head Miller via Mill Head Nicoll deliveries to Boone field (non-project)
 Turned off project 8/19 due to hurricane Hilary. **Bold ##** on USGS denotes USGS gage verification

**ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT - ONYX RANCH
MONTHLY GROUNDWATER MONITORING RUN
AUG**

2023

Well Name	DATE	Depth to Water (ft)	Notes
Onyx Store - Domestic	8/30/2023	39	
Ranch HQ - Domestic	8/31/2023	39.7	Pump on
Landers Sand - Old Ag Well	8/31/2023	16.7	
Onyx Store - Old Ag Well	8/30/2023	18	
Mack Well	8/30/2023	21.8	
Nicoll Field - Old Ag Well	8/31/2023	14.3	
Mack Field West - Domestic	8/30/0203	13.1	
Gibboney-2 Piezo	8/31/2023	8.4	
Gibboney-3 Piezo	8/31/2023	6.6	
Boone Piezo	8/30/2023	4.9	
Lieb Piezo	8/31/2023	7.7	
Pruitt Piezo	8/31/2023	11.5	
Scodie Well	8/30/2023	20.8	
Pruitt Well	8/30/2023	13.7	
Nicoll Well	8/31/2023	14.6	
Mack Piezo	8/30/2023	16.2	
West Onyx Piezo (Top of pipe to the concrete 1.9ft)	8/30/2023	16.3	Pump on
East Onyx Piezo (Top of pipe to the concrete 1.4ft)	8/30/2023	20.8	
Smith Piezo #1	8/30/2023	14.3	
Smith Piezo #2	8/30/2023	17.1	
Smith Piezo #3	8/30/2023	14.9	



RECEIVED

AUG 14 2023

August 3, 2023

Rachelle Echeverria, Resources Planner
Rosedale-Rio Bravo Water Storage District
849 Allen Road
Bakersfield, California 93314

Subject: Approval of Request for Public Assistance
FEMA-4699-DR-CA, California Severe Winter Storms, Straight-line
Winds, Flooding, Landslides, and Mudslides
Cal OES ID: 029-91007 FEMA ID: 029-UT4EY-00
Subrecipient: Rosedale-Rio Bravo Water Storage District
Cal OES Log: COR-000802 FEMA Log: None

Dear Rachelle Echeverria:

The California Governor's Office of Emergency Services (Cal OES) is pleased to inform the Rosedale-Rio Bravo Water Storage District (Subrecipient) its Request for Public Assistance (RPA) for the California Severe Winter Storms, Straight-line Winds, Flooding, Landslides, and Mudslides has been approved by the Federal Emergency Management Agency (FEMA). You should have been notified of your RPA Approval by a system-generated email from FEMA's web-based Grants Portal system (support.pagrants@fema.gov). This letter contains additional helpful information. Cal OES requests you use the Cal OES ID number noted above (if applicable) when corresponding with Cal OES for this disaster. All correspondence should be addressed to:

Mr. Robert Larsen, State Public Assistance Officer
California Governor's Office of Emergency Services
Recovery Section, Public Assistance Division
3650 Schriever Avenue
Mather, California 95655
ATTN: FEMA-4699-DR-CA

Incident Period

Eligibility of Public Assistance costs, as a result of the California Severe Winter Storms, Straight-line Winds, Flooding, Landslides, and Mudslides, will be based on events that occurred within the incident period of February 21, 2023, and



continuing. Pursuant to Title 44 of the Code of Federal Regulations (44 CFR) section 206.202(d)(1)(ii), any known damage that occurred within the incident period must be reported to FEMA/Cal OES within 60 days of the Recovery Scoping Meeting, via Grants Portal - Damage Inventory, to be eligible for federal assistance.

Deadline to Identify Projects

Project Worksheets (PW) are the reimbursement vehicles used to fund disaster projects. PWs are used to document the location, damage description and dimensions, scope of work, and cost estimate for each project. The PW is the basis for funding and all cost estimates and damage must be identified within 60 days following the Recovery Scoping Meeting for each of those projects identified on the subrecipient's Damage Inventory via Grants Portal. Damages and costs must be estimated when final supporting documents are not yet available. As the subrecipient, you are strongly encouraged to submit PW information as soon as possible to expedite the assistance and funding process. Failure to identify and submit PW information in accordance with these parameters may jeopardize project funding, or place additional work requirements on subrecipients to ensure reimbursement of all project costs. Project funding or payment is not available for a PW until it is obligated by FEMA.

Project Completion Deadlines

In accordance with 44 CFR section 206.204(c)(1), FEMA requires all projects be completed within approved timeframes or funding may be jeopardized. It is imperative subrecipients submit a time extension request for any project that will not be completed by the current approved project deadline. Further, time extensions will be granted by Cal OES or FEMA only if the subrecipient can demonstrate extenuating circumstances or unusual project requirements beyond its control that prevent the successful completion of the approved scope of work by the current approved project deadline. Please be advised FEMA and Cal OES will examine these requests closely and time extensions will only be approved for extenuating circumstances. To assist you in determining whether your agency requires a time extension, please refer to the following time limitations for the completion of work associated with this disaster:

DR-4699 Emergency Work Deadlines (Categories A and B)		DR-4699 Permanent Work Deadlines (Categories C-G)	
Regulatory Deadline	Cal OES Time Extension Authority	Regulatory Deadline	Cal OES Time Extension Authority
October 3, 2023	April 3, 2024	October 3, 2024	April 3, 2027

As delineated in the table above, Cal OES is able to grant time extensions for approved (obligated) projects through April 3, 2024, for emergency work and April 3, 2027, for permanent work. FEMA must approve time extensions for any project that will be completed after these dates. Time extension requests must include a full explanation of the extenuating circumstances causing the delay, PW number, category of work, construction schedule, estimated project completion date, as well as dates and provision of previously approved time extensions. Time extension requests should be submitted to Cal OES prior to the established deadline.

Compliance with Federal, State, and Local Environmental and Historical Laws

Initiating a project prior to FEMA's review for compliance with federal environmental and historic laws and executive orders may result in jeopardizing funding. FEMA will complete any required documentation and interagency consultations. Subrecipients must obtain all necessary permits required for all projects, and must comply with any federal, state, or local environmental and historic laws or permit requirements.

Change in Scope of Work or Additional Funding

Any change to the scope of work and/or significant increase in project funding must be requested in writing through Cal OES. A version to the original PW may be prepared by Cal OES based on the eligible work in the documentation provided with the request. The draft PW will be transmitted by Cal OES to FEMA for approval. It is imperative subrecipients wait for FEMA's approval before initiating any changes to the approved scope of work. Such work may be subject to review for compliance with various federal environmental and historic preservation laws and regulations. Any additional work performed prior to approval by FEMA and completion of these reviews may jeopardize funding for the entire project.

Management Costs

In accordance with FEMA Recovery Policy FP 104-11-2, subrecipients can claim management costs through the PW process for those disasters declared on or after August 1, 2017, for five percent of the total award amount. Management costs include indirect costs, direct administrative costs, and any other administrative expense associated *with a specific project* under a major disaster. These expenses can include, but are not limited to, staff time spent to complete initial, interim, and final inspections; preparing PWs; collecting and organizing documentation; and attending certain meetings with Cal OES and FEMA. In addition, Cal OES will continue to provide a 10 percent administrative allowance on the Cal OES cost-share amount.

Net Small Project Overrun (NSPO) Guidelines

Pursuant to 44 CFR section 206.204(e)(2), a Public Assistance subrecipient may

appeal for additional small project funding within 60 days of the completion of work on its last small project. The small project threshold for this event is \$1,000,000. When submitting an appeal for an NSPO, you must include a cost overrun summary listing all small project PWs, actual costs to complete the approved scope of work, and project completion dates. Further, you must be prepared to supply all required supporting documentation upon request.

Appeal Process

In accordance with 44 CFR section 206.206, you have the right to appeal any determination made by FEMA. Subrecipients must submit an appeal through Grants Portal, within 60 days from the date that FEMA electronically transmits the determination via Grants Portal. Cal OES then has an additional 60 days to review the appeal, make a recommendation, and transmit the appeal to FEMA. FEMA regulations require the subrecipient to provide a documented justification in support of its position; the monetary figure in dispute; and the provision of federal law and the regulation or policy with which the subrecipient believes the initial action was inconsistent. At a minimum, subrecipients are encouraged to submit the above documentation, as well as any additional documentation needed to best support the appeal argument. All known relevant information must be submitted with the first appeal. Additional information may not be submitted later. Failure to provide this information will affect Cal OES' ability to support the appeal and still meet FEMA's regulatory deadlines.

Funding Process

Upon obligation of federal and state funds, you will be notified by Cal OES via grant obligation notification letters. These obligation letters will describe the state and federal funding processes. Questions regarding payments of approved funding should be directed to the Cal OES Financial Processing Division at (916) 845-8110 or via email at RecoveryPayments@caloes.ca.gov.

Insurance

Pursuant to 44 CFR section 206.252, a subrecipient is required to obtain and maintain insurance on insurable facilities as a condition of receiving Public Assistance funding from FEMA. This requirement is waived when eligible costs for an insurable facility do not exceed \$5,000. FEMA will notify the subrecipient of the type and amount of insurance required. However, FEMA cannot require greater types and extent of insurance than is certified as reasonable by the State Insurance Commissioner. FEMA Policy 206-086-1, Public Assistance Policy on Insurance, describes these requirements in detail. Please note, failure to obtain and maintain insurance as prescribed could jeopardize future disaster funding.

Procurement

For all approved, federally funded and/or federally financed projects, subrecipients are required to follow the Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards, at 2 CFR Part 200, as adopted by the Department of Homeland Security at 2 CFR Part 3002, when using the federal financial assistance to procure property and/or services.

In conclusion, expediting the processing of project worksheets and reimbursements involves a high level of proactive participation. It is imperative you coordinate with your staff and designated Cal OES/FEMA personnel to submit the Damage Inventory and supporting documentation, and conduct site inspections in a timely manner to avoid unnecessary delays in reimbursements, which can ultimately affect your jurisdiction's recovery. If you have any questions related to this correspondence, please contact us at (916) 845-8200 or via email at DisasterRecovery@caloes.ca.gov.

Sincerely,

THE CAL OES RECOVERY TEAM
(916) 845-8200
DisasterRecovery@caloes.ca.gov

cc: Financial Processing Division

kmh

GROUNDWATER BANK JOINT POWERS AUTHORITY

PLANS FOR CONSTRUCTION OF THE STOCKDALE NORTH RECHARGE BASIN FACILITIES



BENCH MARK

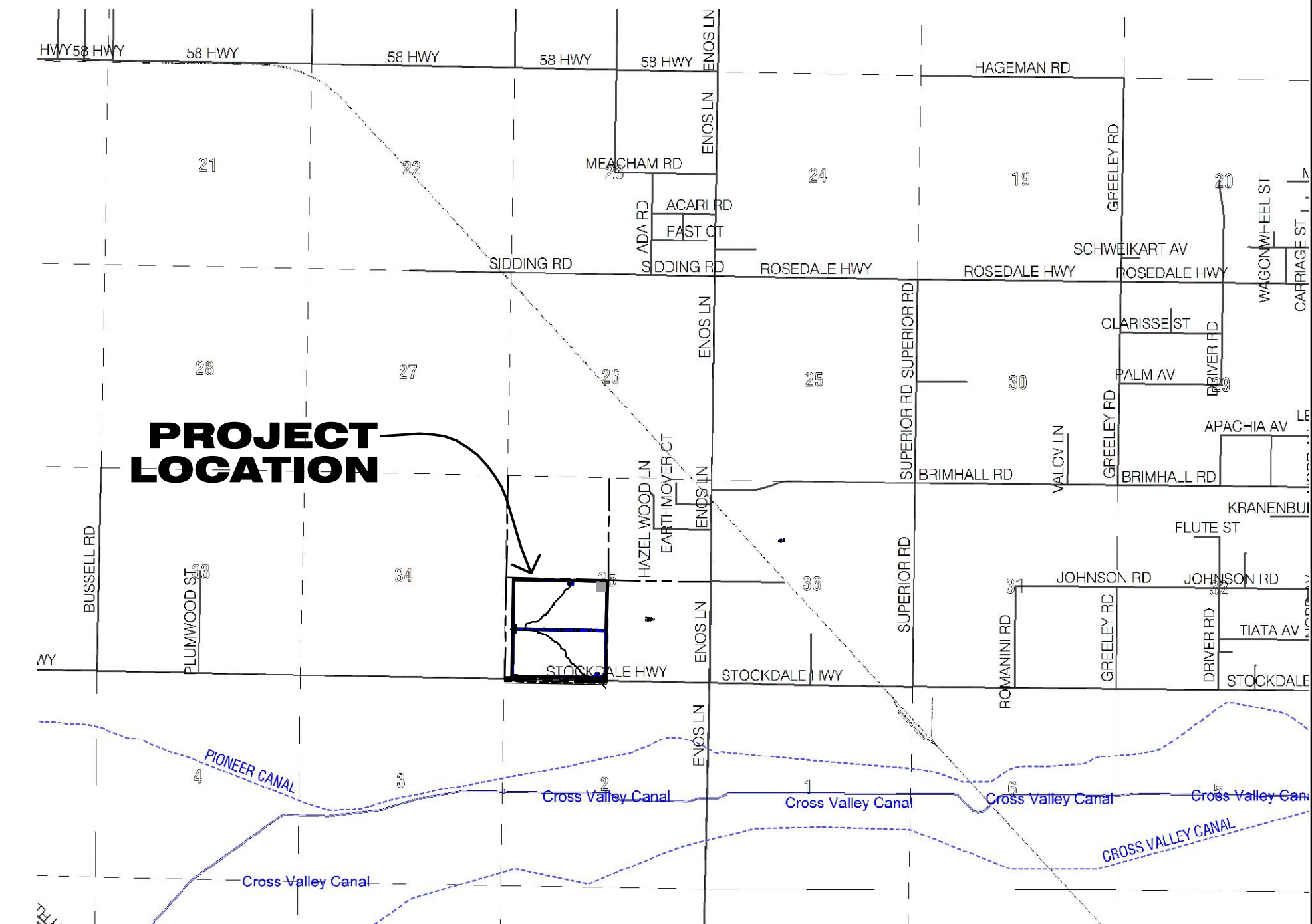
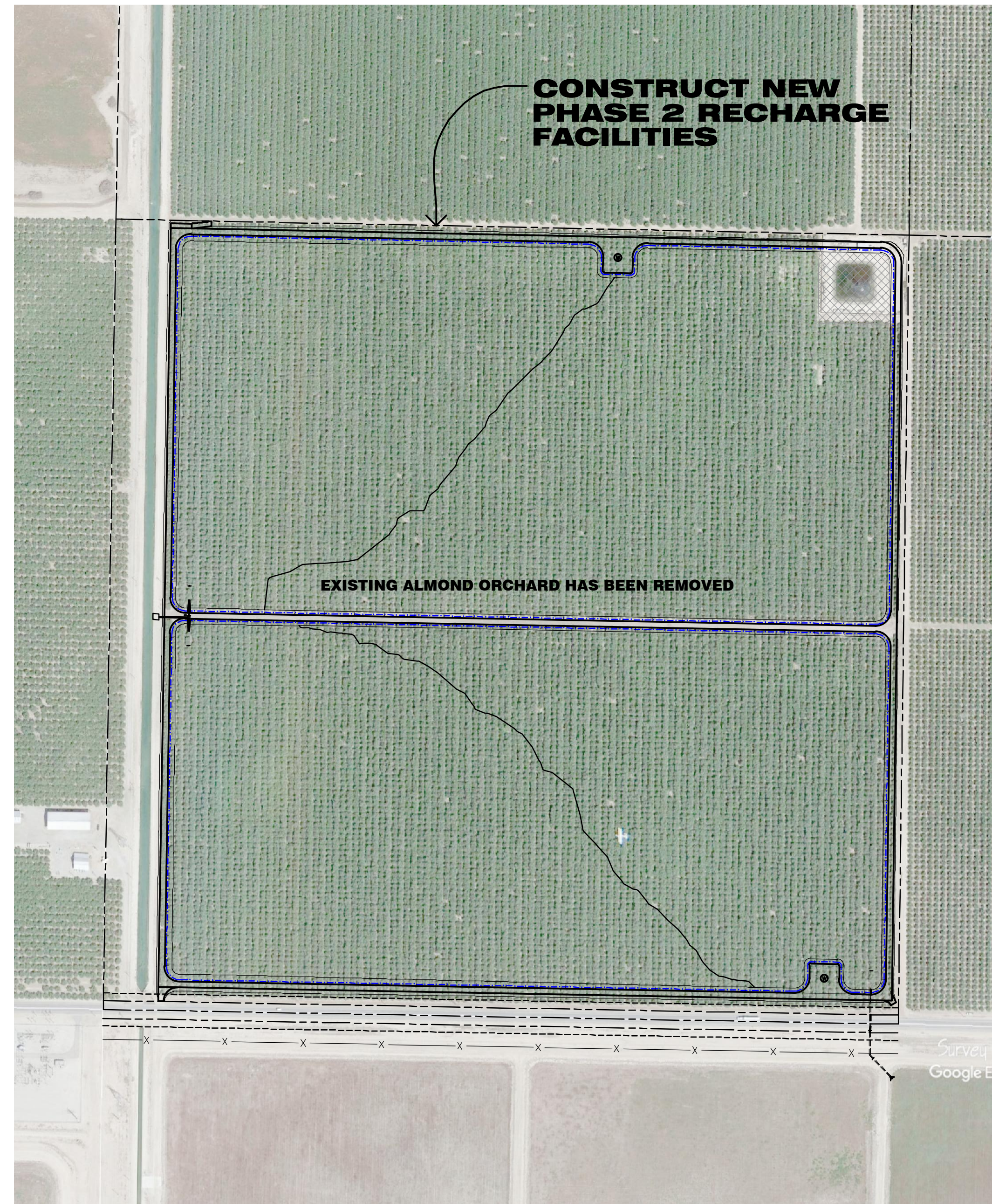
CHISELED "O" ON NORTHEAST CURB RETURN AT STOCKDALE HIGHWAY AND NORD ROAD PER KCS FIELD BOOK 1170, PG 25.
ELEVATION=345.90 NAVD88

BEARING BASIS

THE BASIS OF BEARING IS THE CALIFORNIA COORDINATE SYSTEM OF 1983 (NAD83), ZONE 5.

CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL CONTACT THE U.S.A. LOCATOR SERVICE AT 1-800-642-2444 48 HOURS PRIOR TO ANY EXCAVATION AND SHALL POTHOLE UTILITIES TO VERIFY LOCATION AND DEPTH PRIOR TO TRENCHING. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY CONFLICTS WITH THE PLANS PRIOR TO THE BEGINNING OF CONSTRUCTION.
2. THE CONTRACTOR MUST POSSESS A STATE OF CALIFORNIA CLASS "A" CONTRACTORS LICENSE TO PERFORM THE WORK CONTAINED WITHIN THESE PLANS AND SPECIFICATIONS.
3. HAZARDOUS WASTE IN EXCAVATION. SHALL COMPLY WITH SECTION 4.M "HAZARDOUS CONDITIONS" IN THE CONTRACT GENERAL CONDITIONS.



LOCATION MAP

INDEX OF DRAWINGS

SHEET 1	COVER AND TITLE SHEET	SHEET 11
SHEET 2	BASIN GENERAL PLAN	SHEET 12
SHEET 3	GRADING PLAN - NORTH BASIN	SHEET 13
SHEET 4	GRADING PLAN - SOUTH BASIN	SHEET 14
SHEET 5	LEVEE DETAIL	SHEET 15
SHEET 6	STRUCTURE DETAIL	SHEET 16
SHEET 7	EXISTING TOPOGRAPHY	SHEET 17
SHEET 8		SHEET 18
SHEET 9		SHEET 19
SHEET 10		SHEET 20

LEGEND	
	CENTER LINE
	RIGHT-OF-WAY OR PROPERTY LINE
	OVERHEAD LINES W/POWER POLE
	EXISTING GAS LINE
	EXISTING UTILITIES
	EXISTING TELEPHONE LINE
	EXISTING EASEMENT
	EXISTING FENCE
	EXISTING CONTOURS
	EMBANKMENT SIDESLOPE
	NEW LOCATION OF SALVAGED SIGN
	RIPRAP/ROCK SLOPE PROTECTION
	EDGE OF PAVEMENT
	EXISTING GATE VALVE
	EXISTING AIR VENT
	EXISTING TELE. PEDESTAL
	EXISTING SIGN
	EXISTING MONUMENT
	FINISHED GRADE
	FINISHED GRADE SLOPE
	SECTION DESIGNATION: SECTION LETTER
	DETAIL DESIGNATION: DETAIL LETTER

ABBREVIATIONS			
PI	POINT OF INTERSECTION	EVC	END VERTICAL CURVE
RAW	RIGHT OF WAY	BVC	BEGIN VERTICAL CURVE
EP	EDGE OF PAVEMENT	TAN	TANGENT LINE
INV	INVERT	STA	STATION
C/L	CENTERLINE	O/S	OFFSET
ELEV	ELEVATION	EW	EACH WAY
FG	FINISHED GRADE	EF	EACH FACE
AC	ASPHALT CONCRETE	NF	NEAR FACE
AGG	AGGREGATE	FF	FAR FACE
O.G.	ORIGINAL GROUND	BF	BOTTOM FACE
RRBWS	ROSEDALE RIO-BRAVO	TF	TOP FACE
PVC	POINT OF INTERSECTION, VERTICAL CURVE	LF	LINEAR FEET
POVC	POINT ON VERTICAL CURVE	MON	MONUMENT
		LCW	LONG CREST WEIR

KEY MAP
SCALE: 1"=300'

SUBMITTED BY:

RICHARD D. MEYER, R.C.E. NO. 28104 DATE
File Name: GBJ22001TS2.DWG
M Meyer
Civil Engineering, Inc.
8224 Espresso Dr., Ste. 100, Bakersfield, CA 93312
Phone 661-836-9834 FAX 661-836-9761

APPROVED BY:

SIGNATORY DATE
TITLE
GROUNDWATER BANK JOINT POWERS AUTHORITY

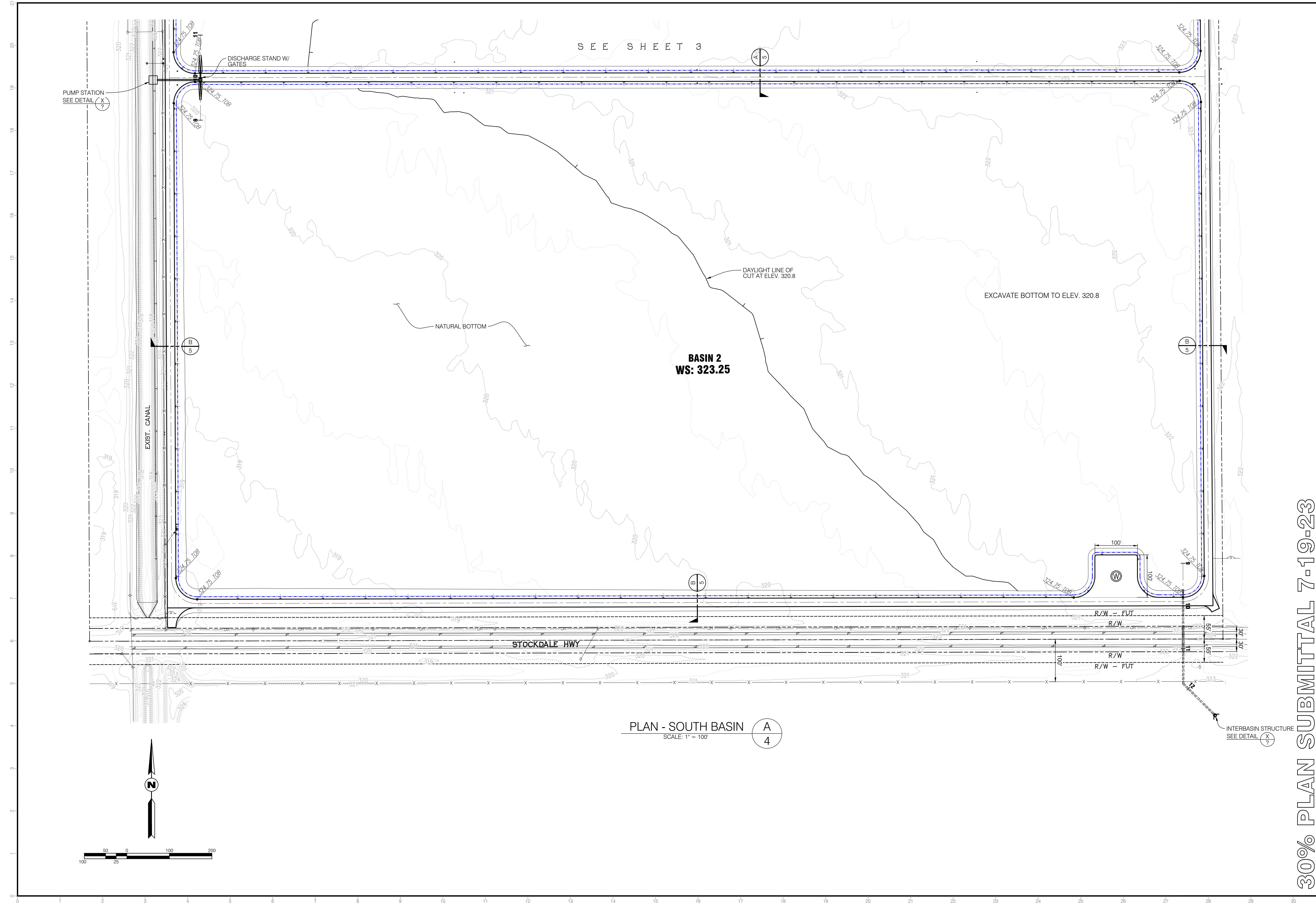
RECORD DRAWING CERTIFICATION

GROUNDWATER BANK JOINT POWERS AUTHORITY
STOCKDALE NORTH BASIN FACILITIES
COVER AND TITLE SHEET

No 1
OF
7
SHEETS

30% PLAN SUBMITTAL
7-19-23

Rev. No.	Date	Revision Description	Approved By



SEE SHEET 3

PLAN - SOUTH BASIN
SCALE: 1" = 100'



30% PLAN SUBMITTAL 7-19-23

<p>GROUNDWATER BANK JOINT POWERS AUTHORITY STOCKDALE NORTH RECHARGE BASIN FACILITIES GRADING PLAN SOUTH BASIN</p>		<p>PM: RDM Drawn By: 7 AutoCAD File: 150001B42 File Location: B42 Date: 7-19-23</p>	<p>Rev. No. Date Revision Description Approved By</p>	<p>Richard D. Meyer, PCE 28104 MeyerCE.net</p>
<p>SHEET NO. 7</p>		<p>11200 River Run Blvd, Ste 102, Bakersfield, CA 93311 Phone 661-836-9834</p>		

HEC-RAS Model of California Aqueduct

What the model is showing about ability
to bring water to Pool 28 and the CVC



March 2022 report

- Documents extension of the HEC-RAS model developed for CASP to Pool 28 scenarios
- Sample runs show how model can be used

March 2022 Report Conclusions

- The capacity of a pool in the California Aqueduct can affect the capacity of pools upstream and downstream of it.
- Higher deliveries during high-delivery conditions could exacerbate encroachment into design freeboard and current operating limits.
- Increased deliveries will likely be limited under some conditions.

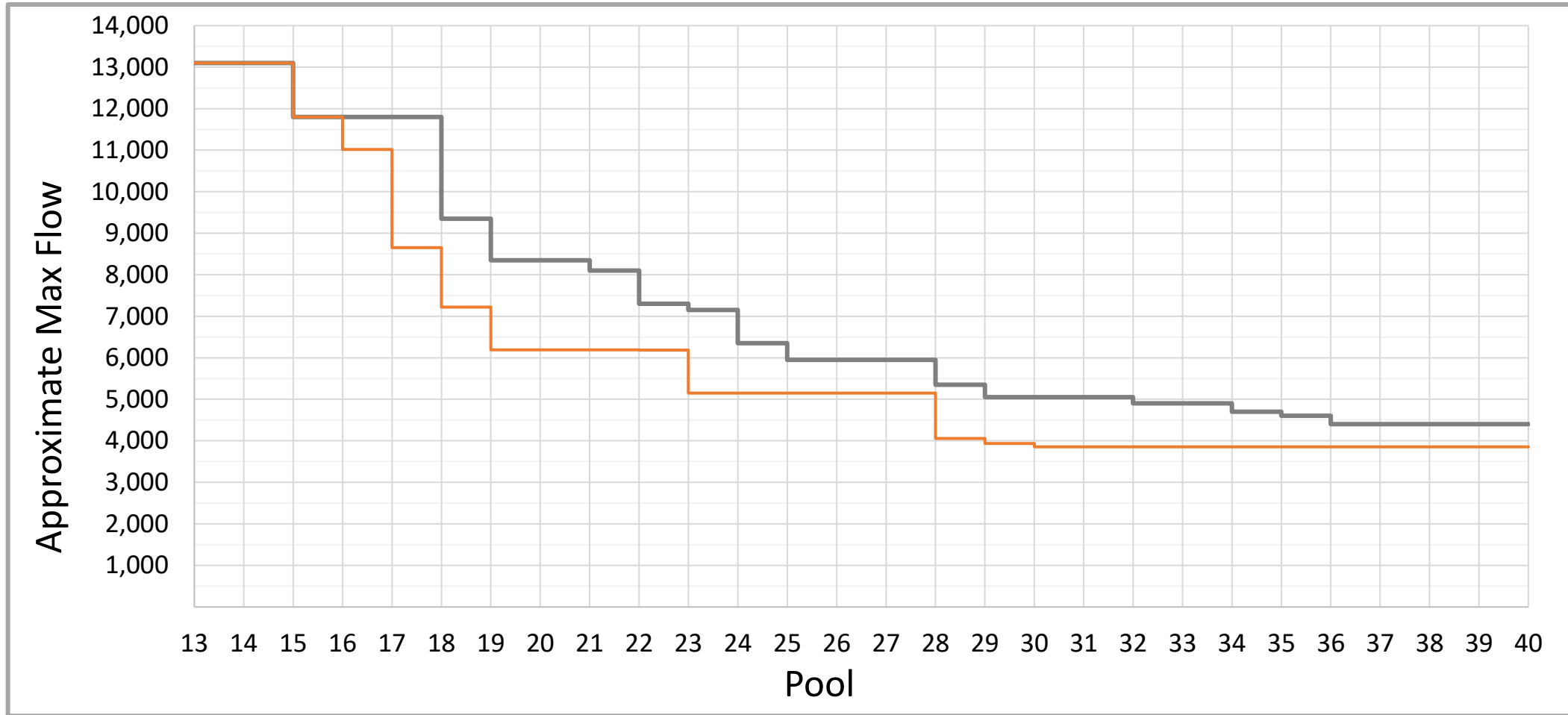


Model Development

- Model originally developed for the CASS – to calculate Hydraulic Conveyance Capacity
- Algorithms mimic gate operations
- Steady and Unsteady Simulations
- Includes Checks, Turnouts, Pumping Plants
- Has been used for various types of analyses

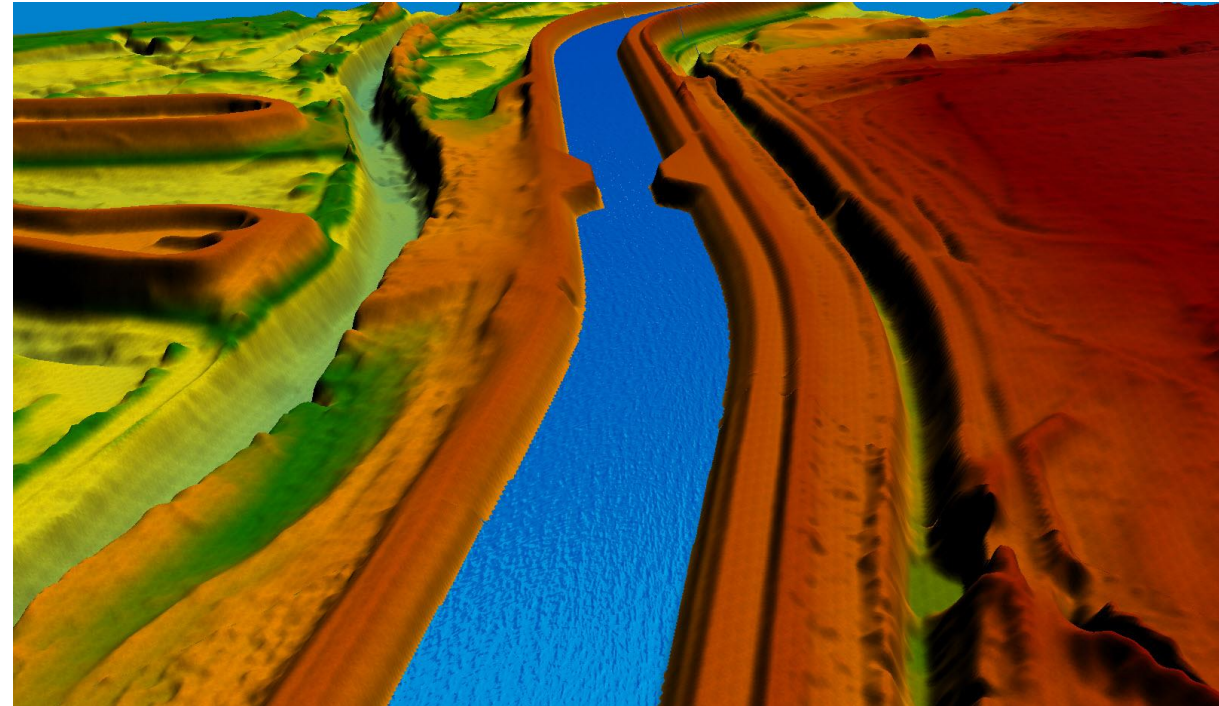
Subsided Conditions Aqueduct Pool Capacities

— Original Design Capacity
— Subsided Capacity (2022)



Model has been updated

- Thanks to KCWA for CVC Pool 1 info shared; HDR was able to extend the model to include it
- Modeling assumed desired WSEs in CVC Pool 1 as agreed ¹.
- Also fine-tuned with SWP operator concerns and limitations
- Will continue to update with new elevation data from surveys
- In good shape to evaluate what-ifs



¹ 293.5 ft NGVD29 at pump station 1A forebay in forward flow

Types of Assumptions

Assumptions Make Scenarios

OPERATION CRITERIA

- Freeboard
- Drawdown
- Velocity

OPERATION CONSTRAINTS

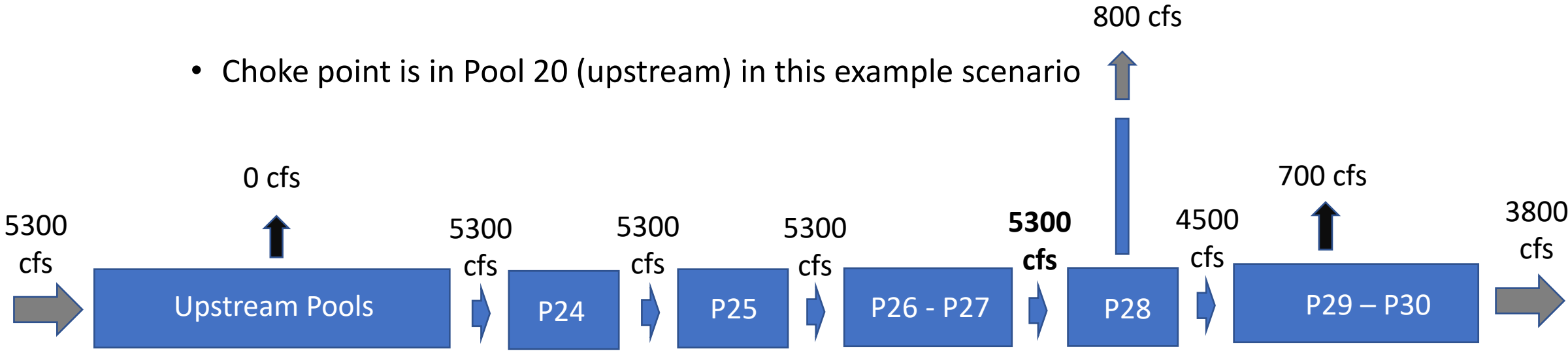
- Special Condition
WSE @ Turnouts
- Gate Closing Rates
- Pumping Rates

MODELING ASSUMPTIONS

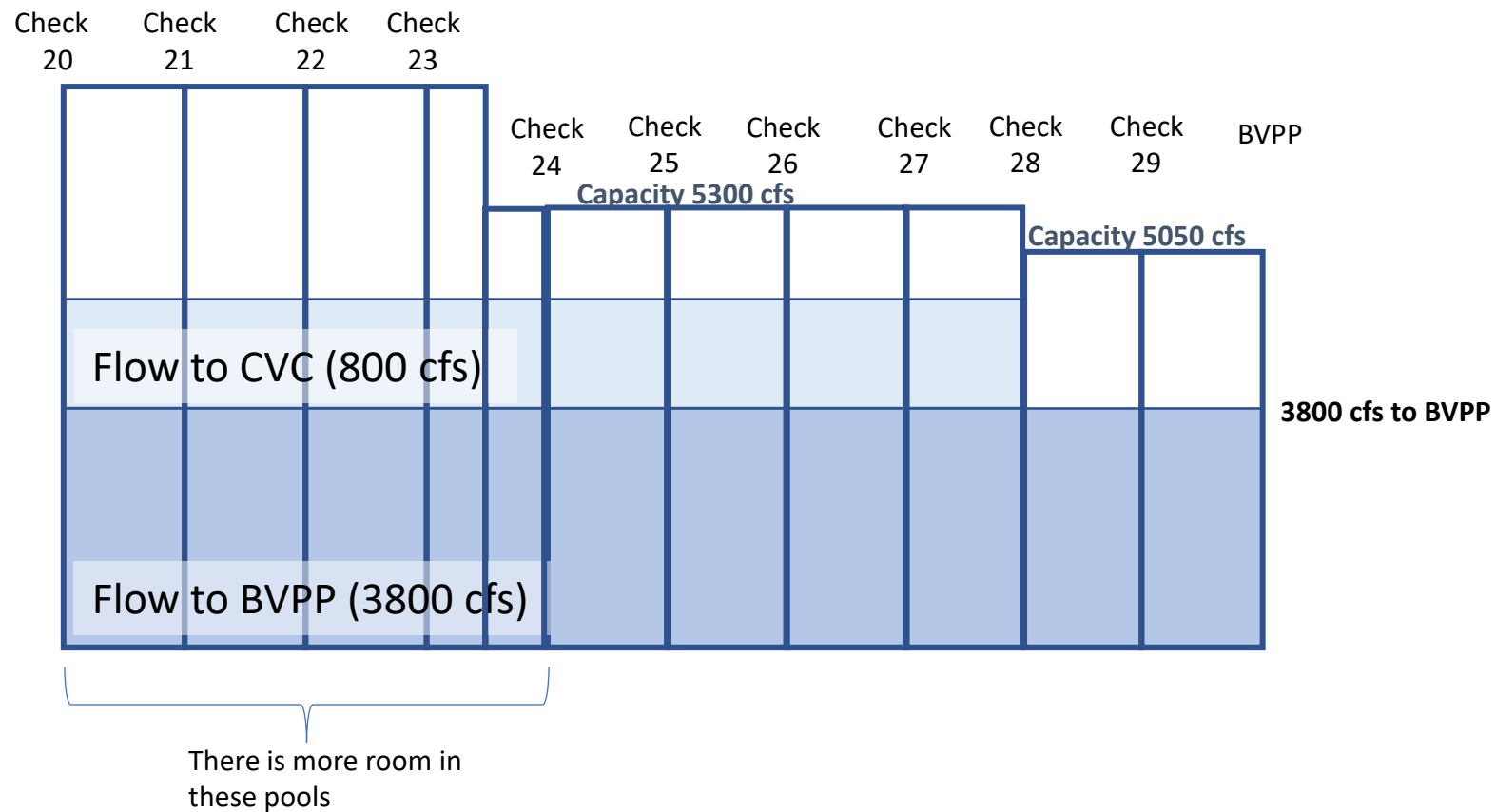
- Turnout flow loading
- Location of turnout
- Changes in operation
based on year
& season
(e.g. common Coastal
SCs)

New Work

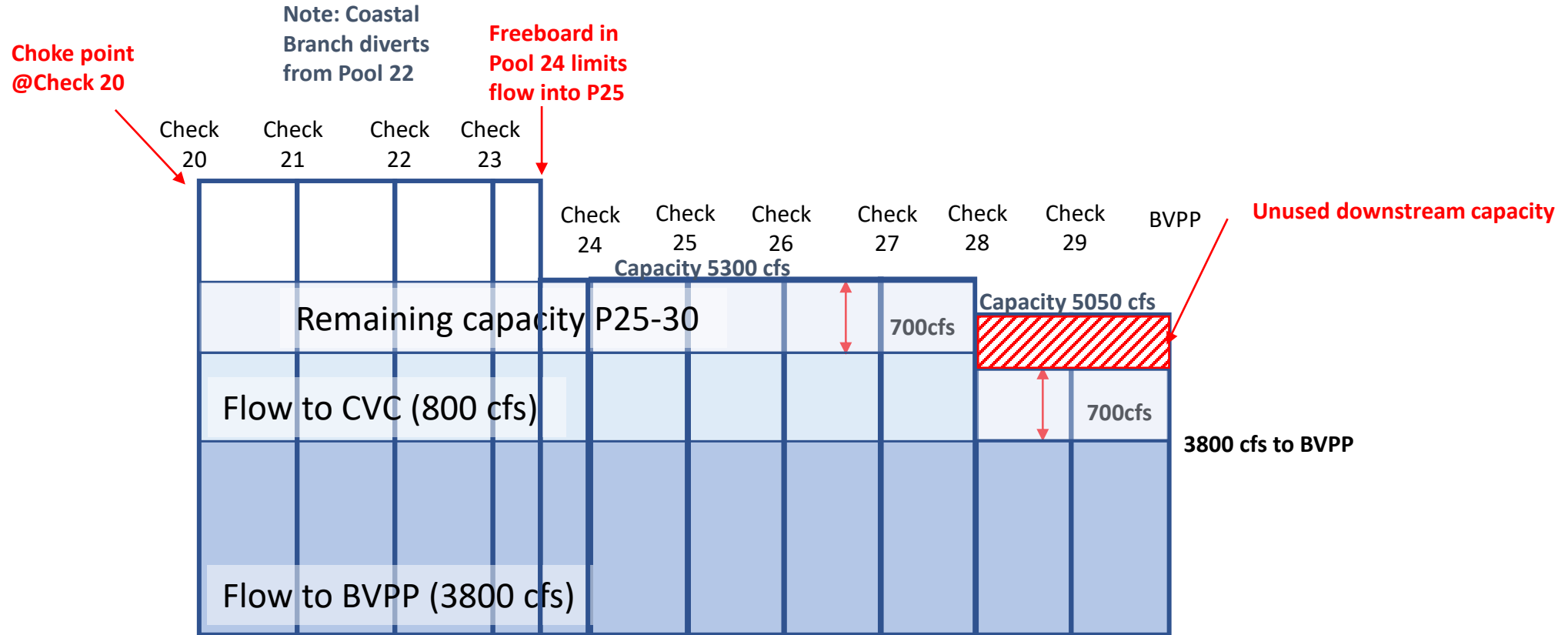
- Example scenario with CVC Pool 1 Geometry
 - 5300 cfs coming in upstream (approx. maximum capacity)
 - 3800 cfs through BVPP (typical during peak season)
 - Demand from Pools 28 and 29
 - Shows this combination works (if no upstream diversions)
- Choke point is in Pool 20 (upstream) in this example scenario



Simple Aqueduct Capacity Diagram (NTS)

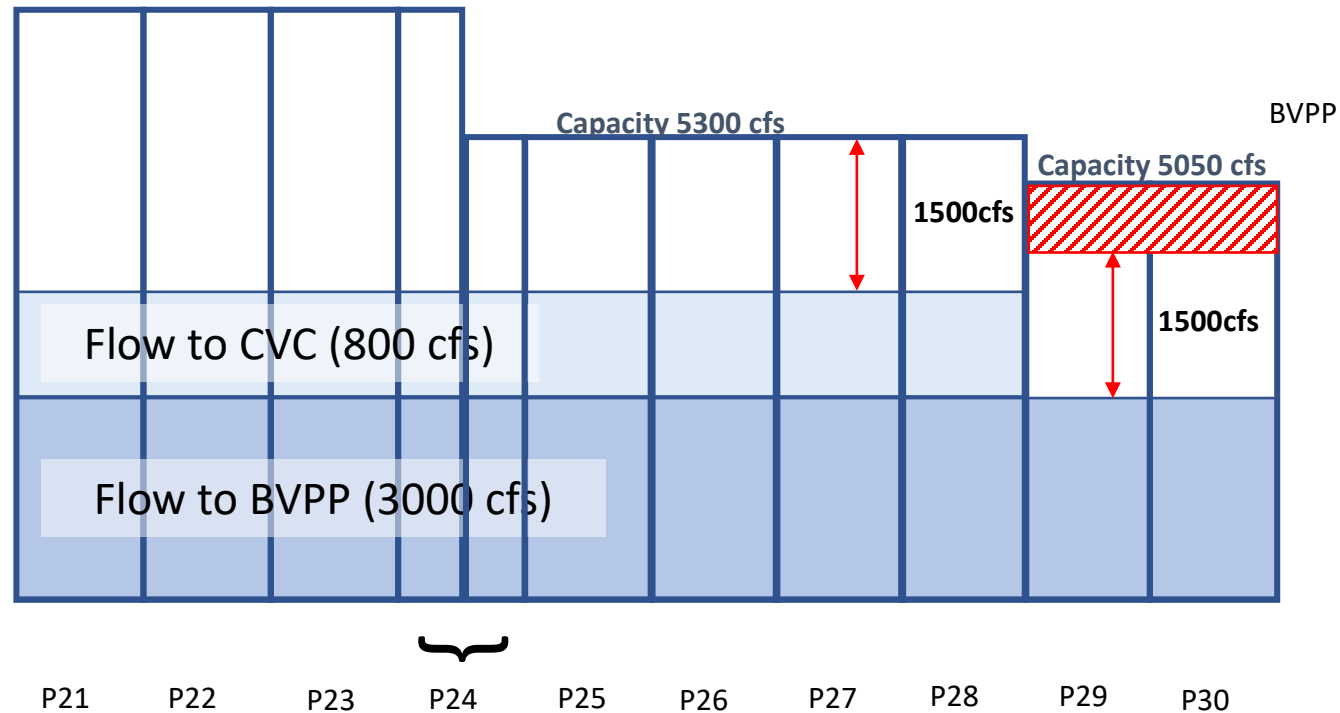


Simple Aqueduct Capacity Diagram (NTS)

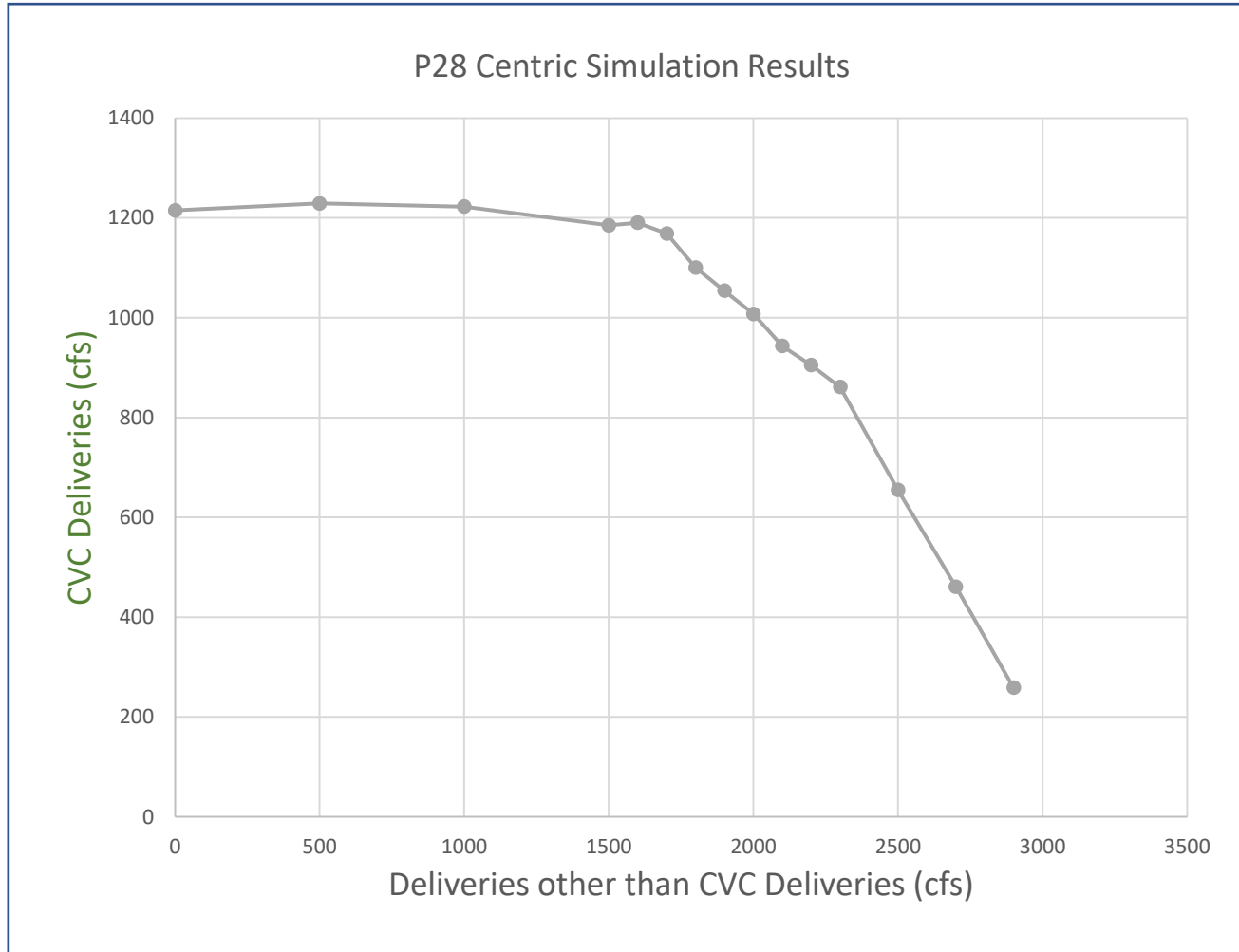


Lower Demand Scenario

- At lower overall demands, there can be room. Ex)



Sample Results, Pool 28 Centric



- CVC ~ 1,200 cfs
- BVPP Flows ~ 3,175
- Start w/ zero Q to other TOs
- Gradually increase Q to other TOs
- The model tries to adjust gates and WSEs to meet all demands
- Models observes 2020 SOO 600.22 constraints

P20

P21-P23

P24

P25
26
27
28

P29-30

2024 cfs

50 cfs

80 cfs

2100 cfs

BVPP

5 Large

3175 cfs

Sample Results, Pool 28 Centric (Continued)

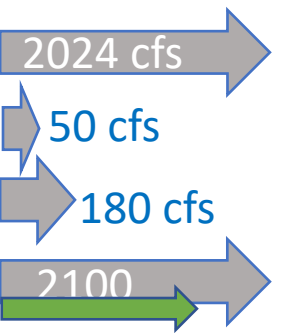
P20

P21-P23

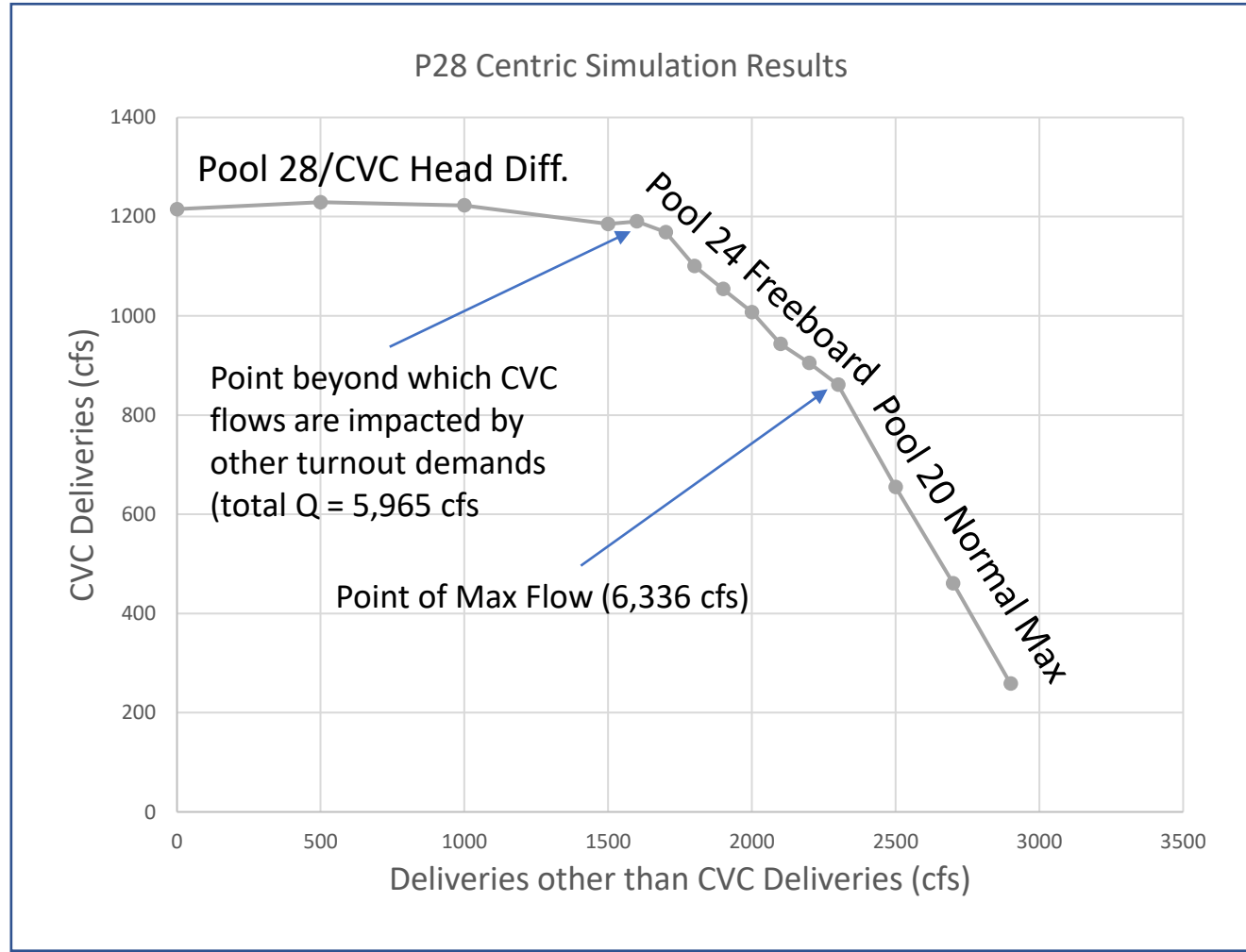
P24

P25
26
27
28

P29-30



BVPP
5 Large
3175 cfs



- As the flow increases, some adjustments are no longer possible because model runs into constraints
- We take note of constraints
- We can identify limits such as max flowrate capacities and system choke points

Outlook on Improvements

- CASP delays due to Reclamation funding requirements
- Future improvements possible, but not guaranteed and timing uncertain
- Subsidence will continue in future

Takeaways

- Many combinations possible
- Recent finding is that demand conditions dictate capacity
- It does look like it's a zero-sum game under high demands
 - There could be situations where there is capacity under lower demand

West Enos Pilot Project

DISCUSSION:

In May an agreement was reached with the current parking lot owners between the Goose Lake Channel and the West Enos property (Bolthouse). On the second of June, pipes were laid, asphalt cut, and large steel plates were installed to accommodate the weight of semi-trucks crossing over the pipelines. Water started on the site 06/05. See aerial photos below.

2023 List of Deliveries by Month	
June	712 AF
July	1,046 AF
August (Estimate)	1,800 AF

RECOMMENDATION:

None.



(3) 16" Pumps on Goose Lake Channel. Estimate = 40 cfs



Steel Plates allowing for truck access to back lot.

Pump Discharges



West Enos Pilot Project as of 8/18/2023

KERN GROUNDWATER AUTHORITY
TEMPORARY ASSOCIATE MEMBERSHIP AGREEMENT

THIS TEMPORARY ASSOCIATE MEMBERSHIP AGREEMENT (“Agreement”) is made and effective as of September 1, 2023, by and between the Kern Groundwater Authority, a California Joint Powers Authority (“KGA”) on the one hand, and Cawelo Water District, a California water district (“Cawelo”), North Kern Water Storage District, a California water storage district (“North Kern”), Rosedale-Rio Bravo Water Storage District, a California water storage district (“Rosedale”), Shafter-Wasco Irrigation District, a California irrigation district (“SWID”), and Southern San Joaquin Municipal Utility District, a California municipal utilities district (“SSJMUD”) on the other hand. Cawelo, North Kern, Rosedale, SWID and SSJMUD are referred to herein collectively as the “Districts” and individually as “District.” KGA and the Districts are also referred to herein collectively as the “parties” and individually as a “party.”

This Agreement is made with reference to the following facts and understandings.

A. In 2014, the California Legislature passed comprehensive groundwater legislation referred to as the “Sustainable Groundwater Management Act” (“SGMA”), which became effective on January 1, 2015. In adopting SGMA, the Legislature intended “[t]o provide local groundwater agencies with the authority and technical and financial assistance necessary to sustainably manage groundwater.” (California Water Code Section 10720(d).)

B. Certain local agencies with jurisdiction over groundwater management, including the Districts, have entered into that certain *Kern Groundwater Authority for the Tulare Lake Basin Portions of Kern County Joint Powers Agreement* dated as of May 27, 2014 (“JPA”) which has been amended and restated from time to time, pursuant to which they formed the KGA for the purposes set forth therein.

C. As of the date of this Agreement, the Districts are General Members of the KGA, as that term is defined in the JPA, and have been General Members since the inception of the KGA. As General Members, each of the Districts has satisfied their respective SGMA responsibilities by including a management area plan (MAP) in the KGA Groundwater Sustainability Plan (KGA GSP) covering the lands within the boundaries of the respective Districts’ management areas.

D. On or around January 30, 2020, and July 27, 2022, KGA submitted the KGA GSP, including the Districts’ MAPs, to DWR for review and approval.

E. On March 2, 2023, DWR determined that all of the GSP’s for the Kern County Subbasin are inadequate. The KGA and the Districts are currently working with other GSA’s overlying the Kern Subbasin to correct the deficiencies identified by DWR.

F. Each of the Districts have elected to become and are (or will soon be) GSAs. Each of the Districts has provided the KGA Board of Directors (“Board”) with notice of its intent to withdraw from the KGA.

G. The Districts intend to address the inadequacies identified by DWR in its June 2,

2023 letter by removing their respective MAPs from the KGA GSP and submitting new GSPs directly to the State Board.

H. The Districts desire to become Associate Members of the KGA on a temporary basis, until such time that the entire Kern Subbasin can submit a revised GSP (or GSPs) addressing the inadequacies identified by DWR, or such other time as may be necessary and appropriate.

I. The JPA provides that the KGA may from time to time admit Associate Members on terms and conditions consistent with SGMA and as determined by the KGA Board. Associate Members means those members of the KGA that are not General Members. Representatives of Associate Members may not serve on the KGA Board and/or KGA Board Committees. Likewise, while Associate Members may provide the KGA Board with input, the representatives of Associate Members shall be non-voting, and their presence shall not be counted in determining whether a quorum is present at KGA Board meetings.

J. The KGA and the Districts, individually and collectively, share the goal of ensuring sustainable groundwater management in the Kern County Subbasin and of obtaining approval of the Groundwater Sustainability Plan for the entire Kern Subbasin by DWR and/or the State Water Resources Control Board ("State Board"), and avoiding probationary status and/or the implementation of an interim plan by the State Board.

THEREFORE, in consideration of the foregoing, and of the mutual promises, covenants and conditions herein set forth, the Districts and the KGA agree as follows:

1. TERM: This Agreement shall become effective upon execution by all parties, and shall remain effective until

- a. Such time as the Districts adopt and submit a GSP (or GSPs) covering their respective areas to the State Board and/or DWR, as may be required by such agencies, addressing the inadequacies identified in DWR's March 2, 2023 letter; and
- b. The Districts execute a Coordination Committee Agreement (or an amendment thereto) for the Kern County Subbasin.

2. TERMINATION: Notwithstanding the foregoing, any party may terminate this Agreement upon 30 days' written notice to the other parties. In the event less than all of the Districts give notice to terminate this Agreement prior to the end of the term, the remaining District(s) and KGA may elect to have this Agreement remain in effect as between KGA and such remaining District(s).

3. ASSOCIATE MEMBERSHIP: Upon execution of this Agreement, the Districts' status as General Members of the KGA shall be immediately terminated, and they shall become Associate Members of the KGA pursuant to the terms and conditions of this Agreement. As Associate Members, the District's representatives to the KGA may not serve on the KGA Board and/or KGA Board Committees and they shall have no right to vote on matters decided by the KGA, except for the administrative and overhead cost line-item budget referred to in Section 4. The Districts' representatives shall not be counted in determining whether a quorum is present at

KGA Board meetings, and may be excluded from KGA closed session items that do not pertain to Associate Members.

4. COSTS: Pursuant to the JPA, each District shall remain responsible for its respective share for all obligations for assessments to pay costs or liabilities of the KGA which were incurred prior to the date of the District's notice of withdrawal. The Districts shall be responsible to cover the costs of the KGA required to facilitate the removal of the District or District GSP from the KGA GSP. These costs will be tracked as a separate item specific to each District. In addition, each District shall be obligated to pay a proportionate share (based upon total KGA membership) of the KGA administrative and overhead costs until this Agreement is terminated pursuant to sections 1 or 2. The administrative and overhead costs included in this provision shall be represented as a separate budget line item in the 2024 KGA budget and any future KGA budget for the term of this Agreement and must be approved by the Districts prior to expenditure or adoption of the KGA budget. Nothing herein shall prohibit any District from agreeing to pay other KGA costs covered by a Special Activity Agreement.

5. COORDINATION COMMITTEE: Nothing in this Agreement shall prohibit any or all of the Districts from executing any amendment to the *Kern County Subbasin Coordination Agreement* or from becoming a member of the Basin Coordination Committee formed thereunder.

6. DEVELOPMENT OF GSPs: During the term of this Agreement, the Districts shall develop their own GSPs (either individually or collectively) covering the lands within their respective GSA boundaries; the Districts shall coordinate and cooperate with the KGA and other GSAs in the subbasin on the development, adoption and submission of their GSPs. The Districts shall be solely responsible for all costs associated with the development of their GSPs, including but not limited to the cost of all efforts necessary to revise the Water Budget Baseline Conditions appendices to the *Kern County Subbasin Coordination Agreement*.

7. PROVISION OF JURISDICTION: Each District shall obtain and execute agreements with other agencies in order to provide jurisdiction over those lands outside the District's respective District boundaries but within its GSA boundaries and/or that are currently under contract with the Districts to provide SGMA services and jurisdiction. During the term of this Agreement, all of the terms and conditions of any *Provision of Jurisdiction Agreement* between the KGA and any District shall remain in full force and effect unless terminated as provided for therein; upon termination of this Agreement, any such agreements shall automatically terminate and neither the KGA nor any of its other members shall be required to provide jurisdiction over any such lands/landowners that have contracted with the Districts for SGMA services and jurisdiction. The Districts shall not be obligated to provide any services or jurisdiction over nor shall they (jointly or severally) be responsible for any of the so-called "undistricted lands" that are outside of their GSA boundaries and/or that not under contract with the Districts (or any of them) for the provision of SGMA services and jurisdiction.

8. SGMA IMPLEMENTATION: Each District shall have the sole right and responsibility to implement SGMA within its respective management area boundaries in a manner determined by each District. The KGA will not have the authority to limit or interfere with the respective Districts' rights and authorities over their own internal matters, including but not limited to each District's surface water supplies, facilities, operation, and any other water management

activities.

9. COOPERATION: The KGA and the Districts will cooperate with one another on all actions that are necessary to effectuate the purposes and provisions of this Agreement. If the State Board or DWR do not accept the submission of additional GSPs from the Districts, the KGA will continue to work with the Districts to reestablish General Membership upon request.

10. INDEMNIFICATION: Each District shall indemnify, defend and hold the KGA and its other members harmless from and against any liability, cause of action or damage to the extent arising out of its performance of this Agreement.

11. SEVERABILITY AND VALIDITY OF AGREEMENT: Should the participation of any party to this Agreement, or any part, term or provision of this Agreement be decided by a courts or the legislature to be illegal, in excess of that party's authority, in conflict with any law of the State of California, or otherwise rendered unenforceable or ineffectual, the validity of the remaining portions, terms or provisions of this Agreement shall not be affected thereby and each party hereby agrees it would have entered into this Agreement upon the remaining terms and provisions.

12. EXECUTION IN PARTS OR COUNTERPARTS: This Agreement may be executed in parts or counterparts, each part or counterpart being an exact duplicate of all other parts or counterparts, and all parts or counterparts shall be considered as constituting one complete original and may be attached together when executed by the parties hereto. Facsimile or electronic signatures shall be binding.

13. NOTICES: Notices authorized or required to be given pursuant to this Agreement shall be in writing and shall be deemed to have been given when mailed, postage prepaid, or delivered in person or by electronic mail during working hours to the addresses set forth below for each of the parties hereto, or to such other changed addresses communicated to the Authority and the Districts in writing.

IN WITNESS WHEREOF, the parties hereto, pursuant to authority provided by their respective Board of Directors or governing board, have caused their names to be affixed by their proper and respective officers as of the day and year first above-written.

Dated:

Kern Groundwater Authority

By: _____

Name, Title: _____

Address: _____

Dated: 8/30/23

Cawelo Water District

By: 

Name, Title: Keith Watkins, President

Address: 17207 Industrial Farm Rd.
Bakersfield CA 93308

Dated: 8/31/23

North Kern Water Storage District

By: 

Name, Title: Kevin Andrews, President

Address: 33380 Cawelo Ave.
Bakersfield, CA 93308

Dated: 8/30/23

Rosedale-Rio Bravo Water Storage District

By: 

Name, Title: GARY UNRUH, DIRECTOR

Address: 849 ALLEN ROAD

BAKERSFIELD, CA 93314

Dated: 8/30/23

Shafter-Wasco Irrigation District

By: 

Name, Title: Craig D. Fulwyler, Director

Address: PO Box 1168

Wasco, CA 93280

Dated: 8/30/2023

Southern San Joaquin Municipal Utility District

By:  _____

Name, Title: Brandon N. Morris, Director

Address: PO Box 279

Delano, CA 93216

KERN COUNTY SUBBASIN

Coordination Committee & Technical Working Group Members

September 2023

Coordination Committee Members

Name	GSA
Jeof Wyrick , <i>President</i>	Henry Miller Water District
Dan Waterhouse , <i>Chair</i>	Kern Groundwater Authority
Terry Chica , <i>President</i>	Buena Vista Water Storage District
Rodney Palla , <i>Chairman (CC Chair)</i>	Kern River Groundwater Sustainability Agency
James L. Nickel , <i>President</i>	Olcese Water District Groundwater Sustainability Agency
Derek Yurosek , <i>Chairman</i>	South of Kern River Groundwater Sustainability Agency
Randy Bloemhof , <i>Chief Executive Officer</i>	North Central Kern Groundwater Sustainability Agency
Gary Unruh , <i>Board Secretary</i>	Rosedale-Rio Bravo Water Storage District

Additional Coordination Committee Representatives

Name	GSA
Dominic Sween , <i>Manager</i>	Henry Miller Water District
Patricia Poire , <i>Executive Director</i>	Kern Groundwater Authority
Tim Ashlock , <i>Engineer-Manager</i>	Buena Vista Water Storage District
Steven Teglia , <i>General Manager</i>	Kern River Groundwater Sustainability Agency
Brian W. Grant , <i>Director</i>	Olcese Water District Groundwater Sustainability Agency
Jeevan Muhar , <i>Engineer-Manager</i>	South of Kern River Groundwater Sustainability Agency
David Hampton , <i>General Manager</i>	North Central Kern Groundwater Sustainability Agency
Dan Bartel , <i>Engineer-Manager</i>	Rosedale-Rio Bravo Water Storage District

Technical Working Group Members

Name	GSA	Firm
Abhishek Singh	North Central Kern GSA	Intera
Anona Dutton	South of Kern River & Olcese GSAs	EKI
Christina Lucero	South of Kern River GSA	EKI
Dan Bartel	Rosedale-Rio Bravo Water Storage District	Rosedale-Rio Bravo Water Storage District
David Miller	Buena Vista WSD GSA	GEI
Jonathan Parker	KGA – Kern Water Bank	Kern Water Bank
Larry Rodriguez	KGA – Semitropic GSA	GEI
Micah Eggleton	KGA – Pioneer GSA & West Kern WD	Woodward & Curran
Mike Maley	KGA – Cawelo GSA	Todd Groundwater
Maureen Riley	Kern River GSA	Todd Groundwater
Stephanie Hearn	KGA – Southern San Joaquin	GEI
Tom Watson	KGA – Westside Districts MA	Aquilogic
Vanessa Yap	KGA – Kern-Tulare WD	Kern-Tulare Water Storage District
Will Halligan	Henry Miller GSA	Luhdorff & Scalmanini Consulting Engineers

Technical Working Group Tasks

Task	Name
GSP Amendment & Schedule	All TWG Members
Subcommittees	
Alternative Methodologies for Groundwater Levels SMC – 7 Additional Committees: Domestic/Beneficial Users, Critical Infrastructure/Subsidence, Aquifers, Gradients, Banking, Trends, Refinements	Anona (Lead) , Christina, Larry, Abhi, Tom, Will, and David – <u>7 Additional Committees: All TWG Members</u>
Well Mitigation Program	Stephanie (Lead) , Dan, Jon, Abhi
Projects and Management Actions	Dan (Lead) , David, Mike, Larry
Subsidence	Tom (Lead) , Abhi, Mike, Anona, Stephanie, Vanessa
Water Quality	Stephanie (Lead) , Maureen, Anona
Monitoring Network	Will (Lead) , Vanessa, Mike

KERN COUNTY SUBBASIN SWRCB TECHNICAL MEETING NO. 2

4 OCTOBER 2023

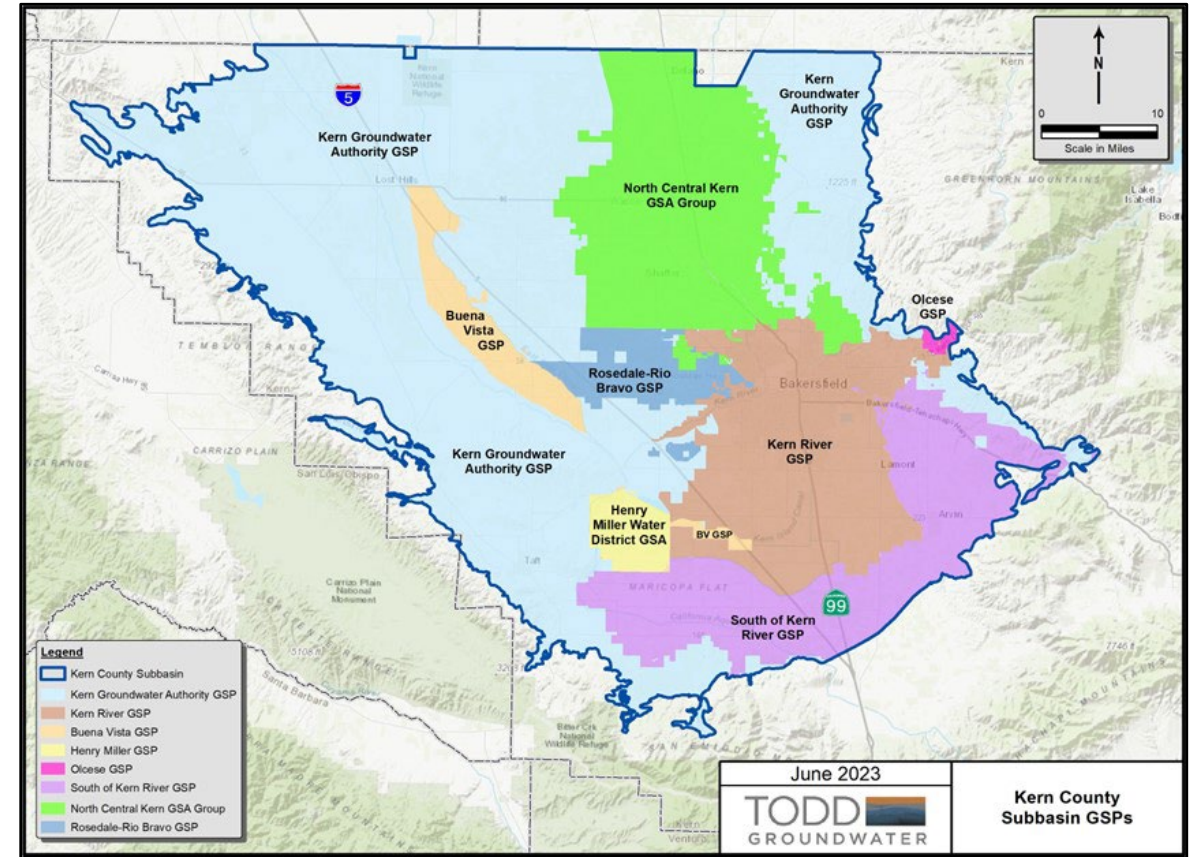
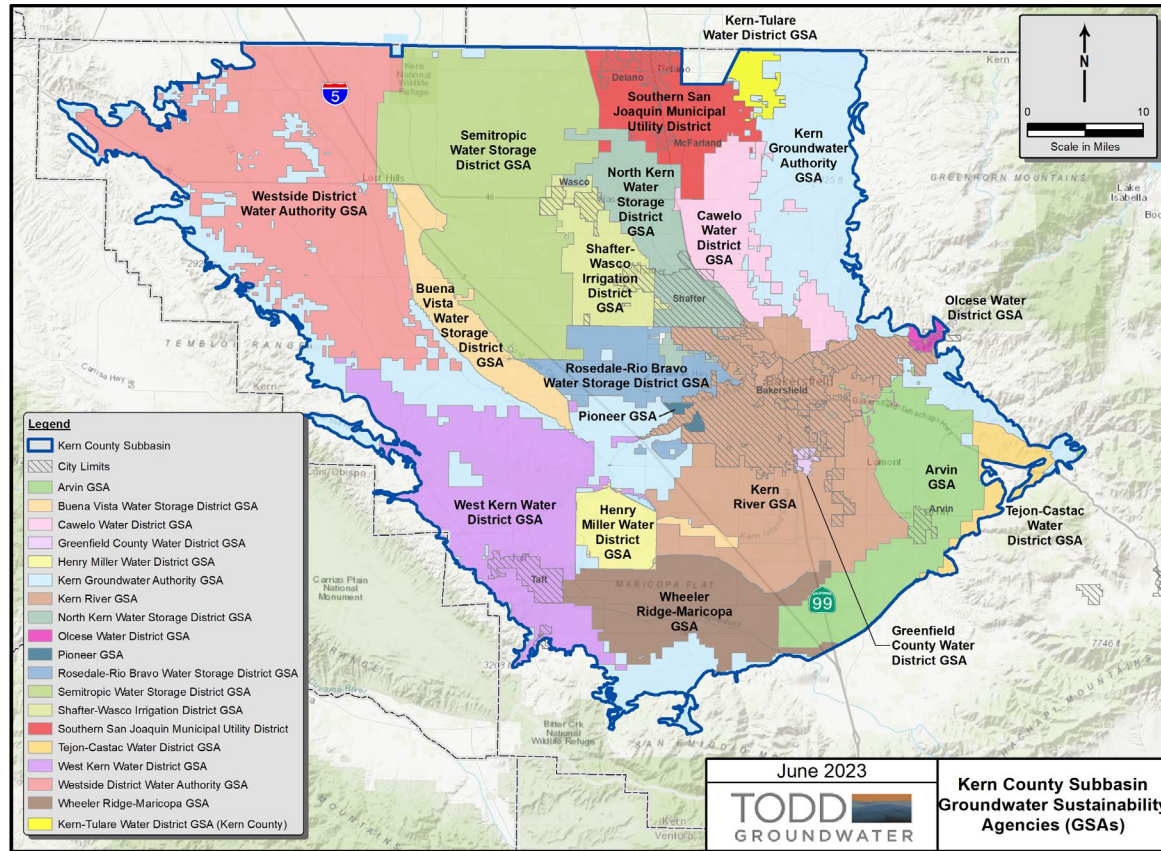
OVERVIEW

- Background
- Chronic Lowering of Groundwater Levels Sustainable Management Criteria
 - Proposed Undesirable Results (UR) definition
 - Proposed Approach for Minimum Thresholds (MTs)
 - Proposed Approach for Measurable Objectives (MOs)

DWR DEFICIENCIES

- #1: The GSPs do not establish Undesirable Results (URs) that are **consistent** for the entire Subbasin.
- #2: The Subbasin's chronic lowering of groundwater levels sustainable management criteria **do not satisfy the requirements** of SGMA and the GSP Regulations.
- #3: The Subbasin's land subsidence sustainable management criteria **do not satisfy the requirements** of SGMA and the GSP Regulations.

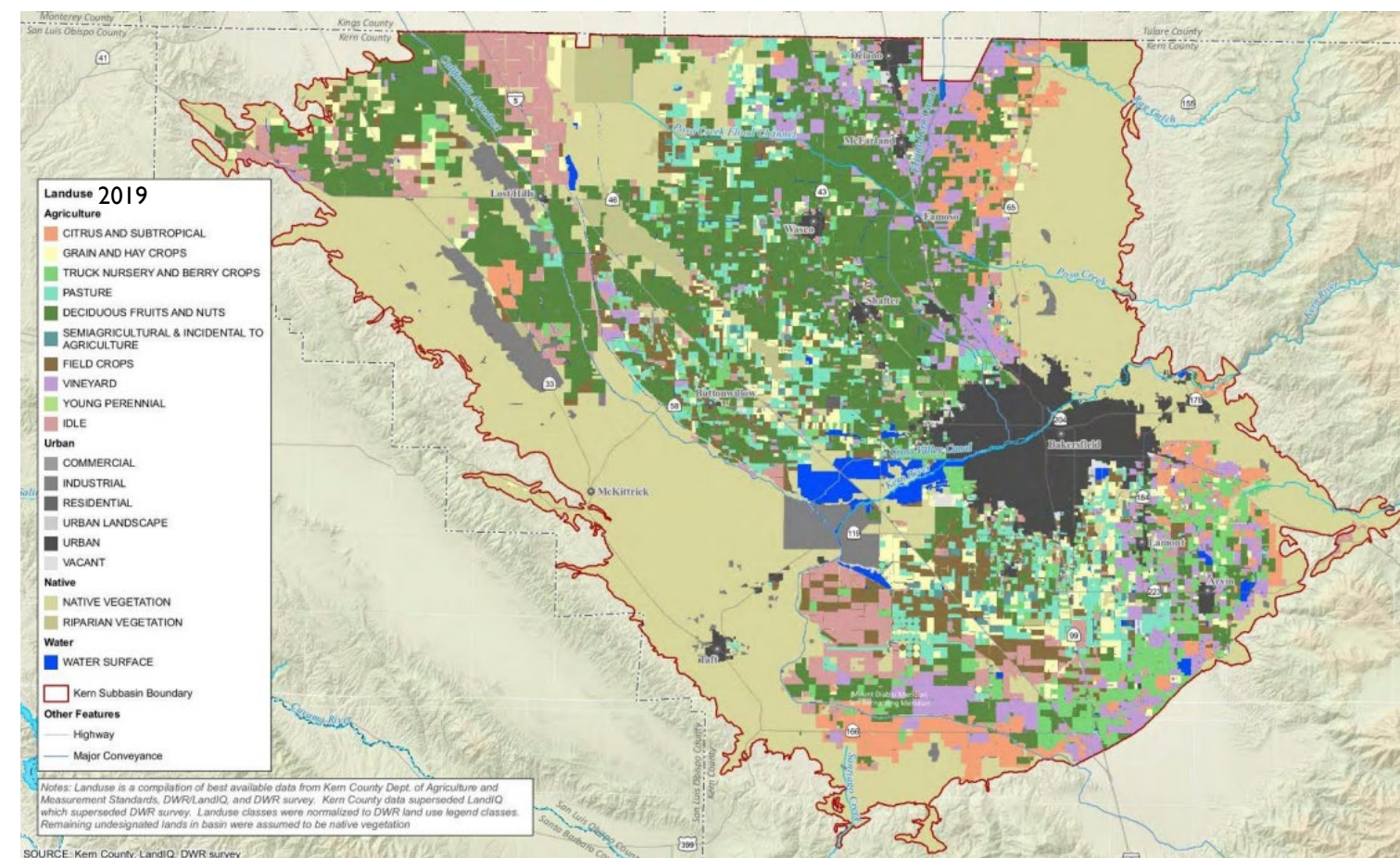
GSAs / GSP GROUPS DEVELOPING REVISED GSPs USING COMMON FRAMEWORK



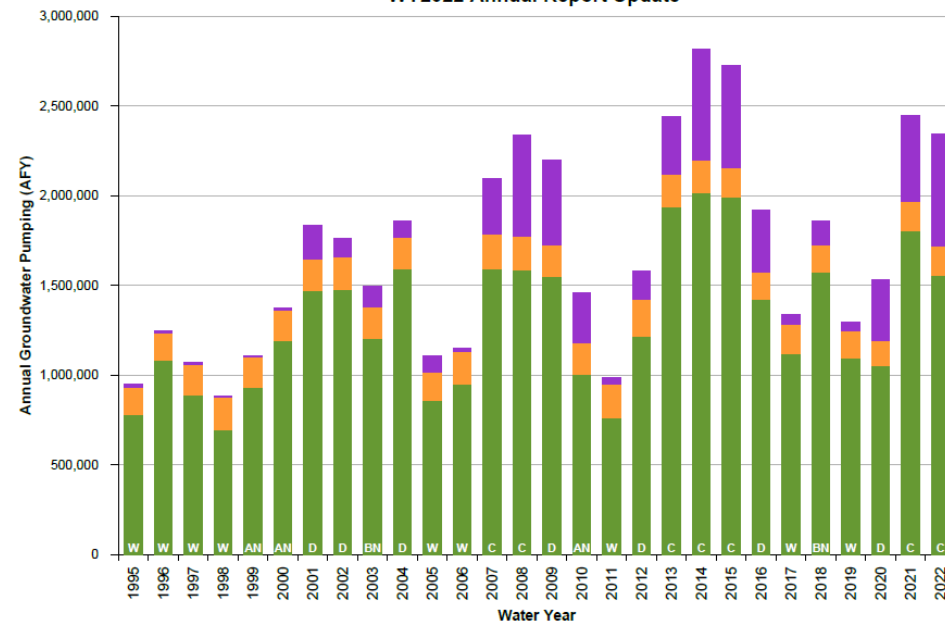
■ 19 GSAs

■ 8 GSP groups

APPROACH REFLECTS DIVERSE LAND AND WATER USES ACROSS THE STATE'S LARGEST BASIN...

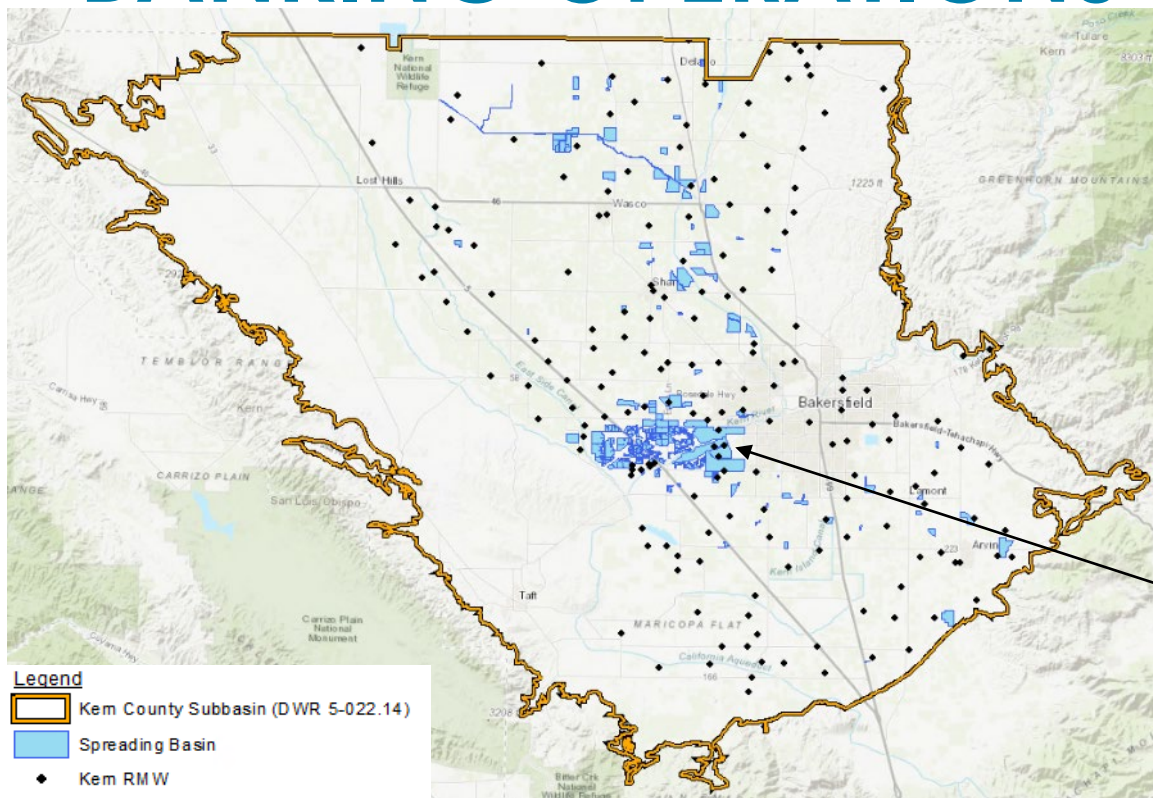


Kern County Subbasin Groundwater Extractions for WYs 1995-2022
WY2022 Annual Report Update

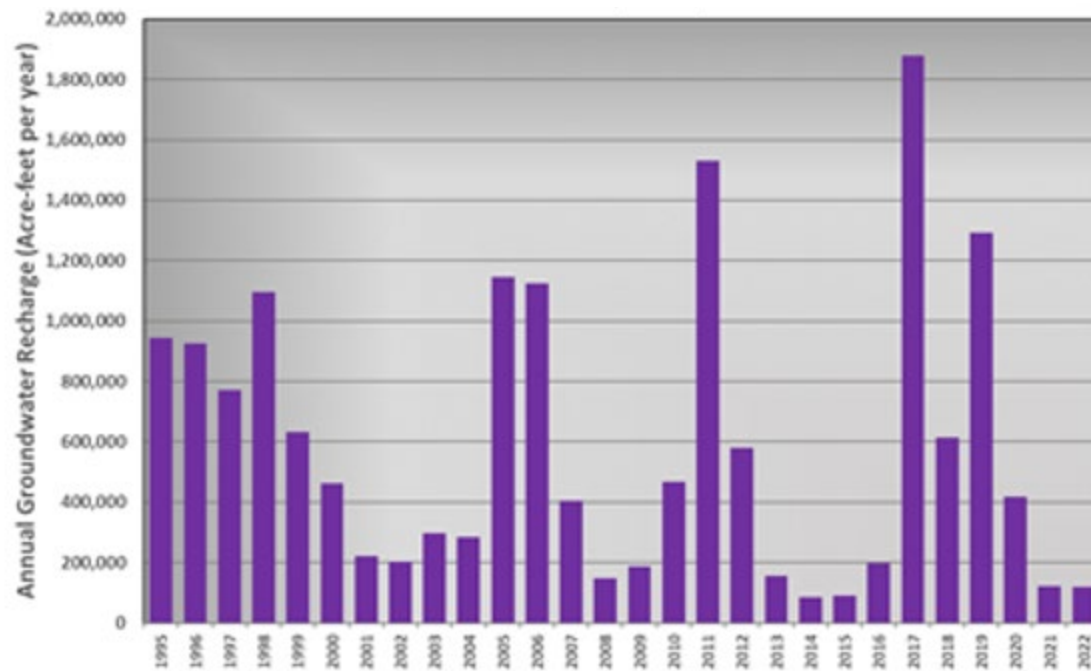


- Agricultural Pumping
- Urban Pumping
- GW Banking, Exchanges, and "Pump-ins"

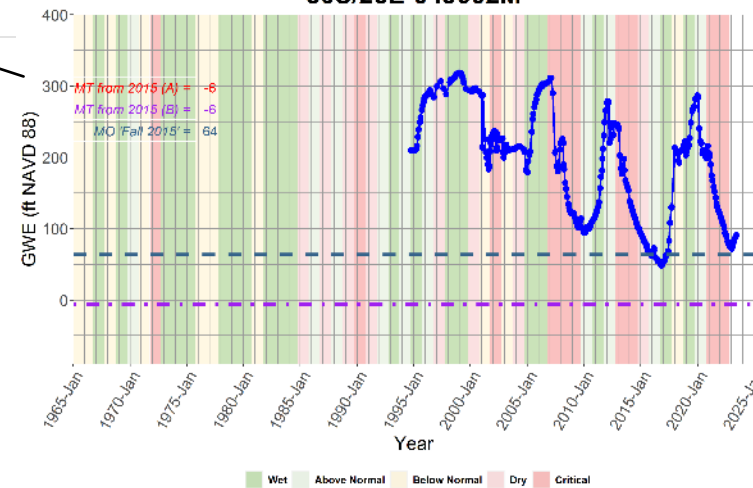
... AND SIGNIFICANT BANKING OPERATIONS



Kern County Subbasin Managed Aquifer Recharge (MAR) and Groundwater Banking WY 1995 - 2022



30S/26E-04J002M



- Millions of acre feet of surface water recharged and recovered for local and statewide benefit
- Monitoring wells exhibit large fluctuations to support banking operations

LARGE EFFORT TO BETTER UNDERSTAND LOCATION AND TYPE OF BENEFICIAL USERS

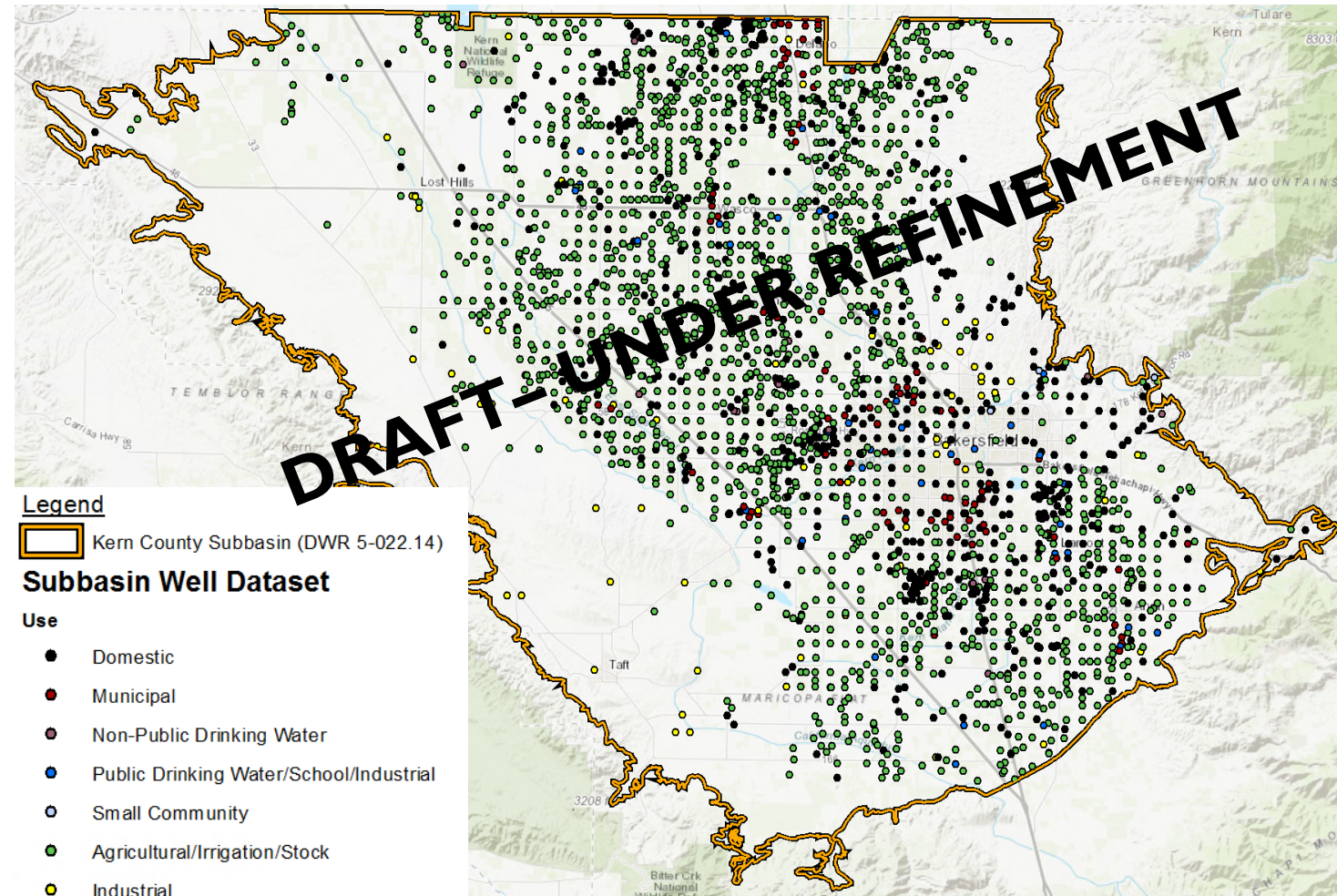
Well Count by Type*:

- Agricultural: 2,847
- Domestic: 1,513
- Municipal: 110
- Public Supply: 79
- Small Community: 5
- Industrial: 116

1,707
"drinking water wells"

■ Total: 4,670

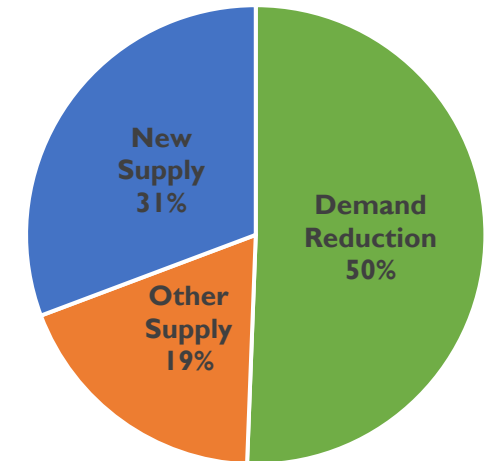
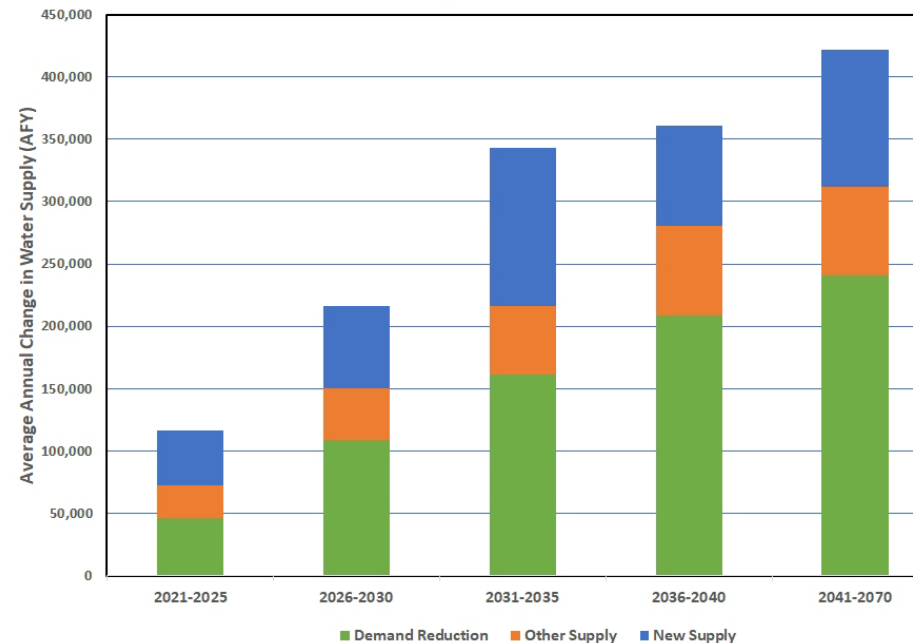
* Wells less than 70 years old in 2040 for planning purposes, but not excluded from mitigation



GSA_s ALSO ACTIVELY WORKING TO CORRECT BASIN OVERDRAFT

- Developing and implementing P/MAs to address overdraft
- Many GSA_s focusing on demand reduction
- Continued outreach to and transparency with landowners

P/MAs included in the 2022 GSPs:



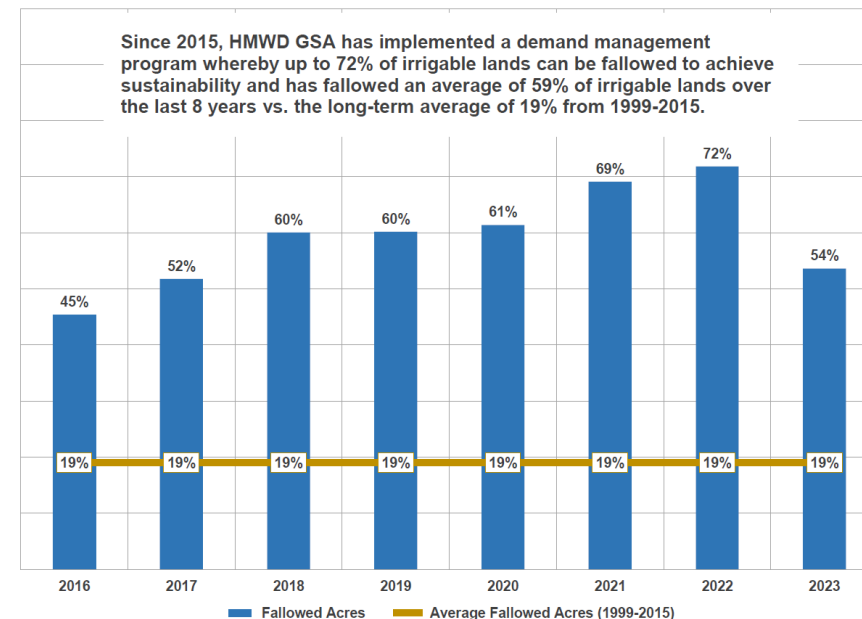
EXAMPLE DEMAND REDUCTION P/MAs

- Examples of demand reduction P/MAs include:
 - SWSD reduction in irrigated acreage is tracking to meet targeted sustainable acreage by 2040
 - HMWD fallowed on average 59% of irrigable lands over the last 8 years
 - BVWSD fallowed approx. 4,500 acres
 - SWID voluntary rotational land fallowing program

Example: Semitropic Water Storage District Irrigated Acreage



Example: Henry Miller Water District GSA Fallowed Acres



KERN COUNTY SUBBASIN SUSTAINABILITY GOAL

From Coordination Agreement Exhibit 1 (July 2022):

- Collectively **bring the Subbasin into sustainability** and to maintain sustainability over the implementation and planning horizon and beyond
- Achieve sustainable groundwater management in the Kern County Subbasin through **the implementation of projects and management actions** at the member agency level of each GSA
- Maintain its **groundwater use within the sustainable yield** of the basin as demonstrated by monitoring and reporting groundwater conditions
- **Operate within the established sustainable management criteria**, which are based on the collective technical information presented in the GSPs in the Subbasin
- **Avoid dewatered municipal wells and unmitigated dewatered domestic wells**

COMPLIANCE WITH REGULATIONS – UNDESIRABLE RESULTS

Per § 354.26: ...Undesirable results occur when significant and unreasonable effects for any of the sustainability indicators are caused by groundwater conditions occurring throughout the basin.

(B) The description of undesirable results shall include the following:

(1) The cause of groundwater conditions occurring throughout the basin that would lead to or has led to undesirable results based on information described in the basin setting, and other data or models as appropriate.

*(2) The criteria used to define when and where the effects of the groundwater conditions cause undesirable results for each applicable sustainability indicator. The criteria shall be based on a quantitative description of the **combination of minimum threshold exceedances** that cause significant and unreasonable effects in the basin.*

*(3) **Potential effects on the beneficial uses and users** of groundwater, on land uses and property interests, and other potential effects that may occur or are occurring from undesirable results*

PROPOSED UR DEFINITION

- The point at which significant and unreasonable impacts over the planning and implementation horizon affect the reasonable and beneficial use of, and access to, groundwater by overlying users.
- This is defined if either of the following conditions are met:
 - More than 15 drinking water wells reported as dry in any given year.
 - The MTs for groundwater levels are exceeded in at least 25% of the representative monitoring sites over a single year (two consecutive seasonal measurements).

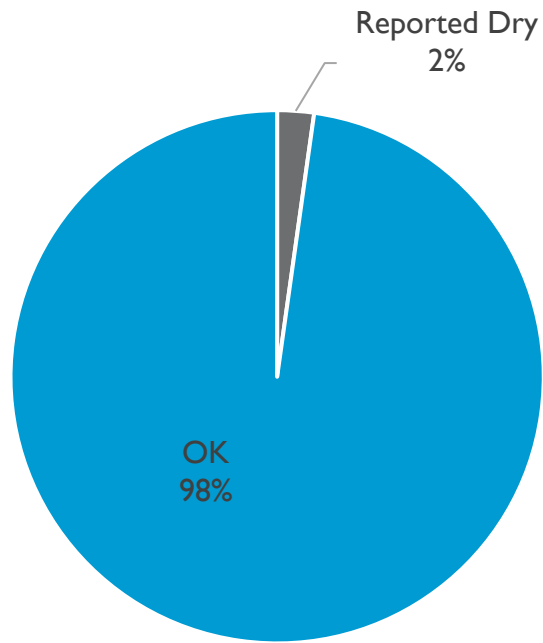
“SIGNIFICANT AND UNREASONABLE” CONSIDERATIONS

Avoid significant and unreasonable impacts to beneficial users, specifically, dewatering of drinking water wells

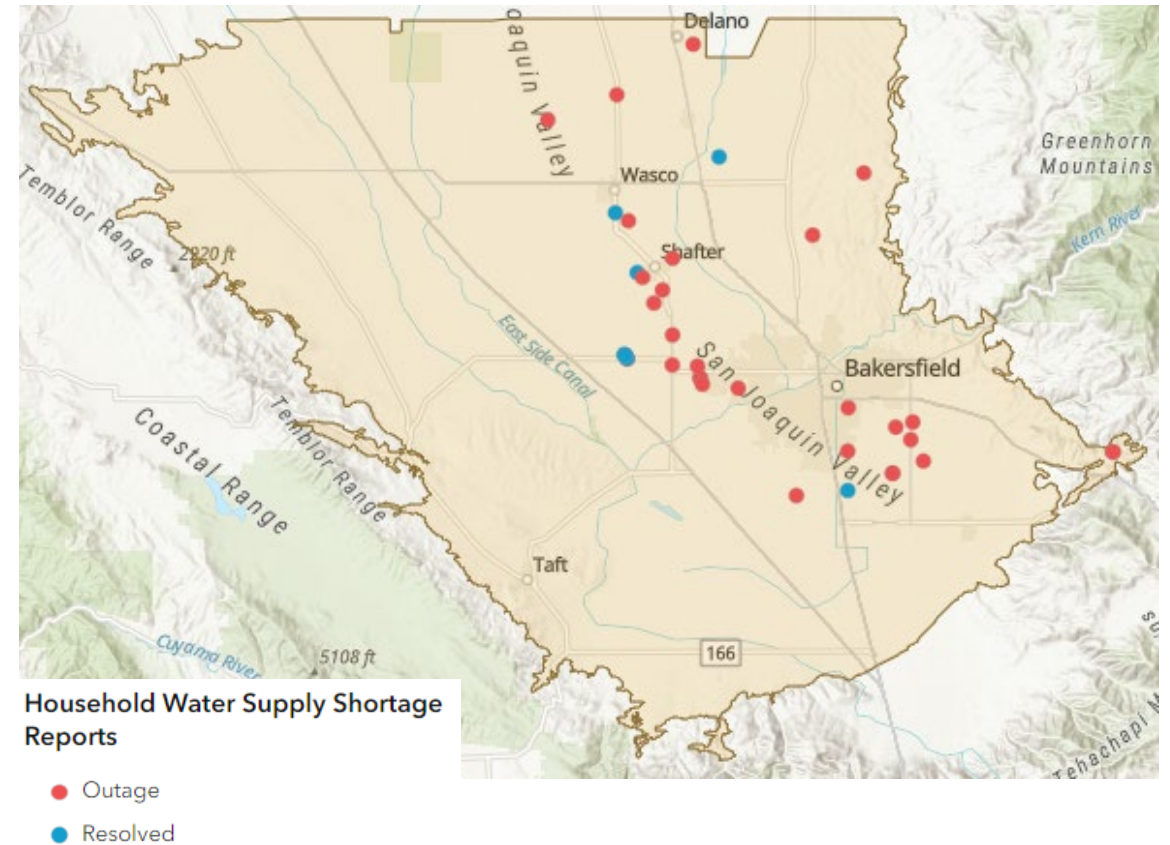
- How many drinking water wells have historically been impacted?
- How many drinking water wells is it reasonable and economical to potentially mitigate?

REPORTED DRY WELLS TO DWR

<https://storymaps.arcgis.com/stories/f2b252d15a0d4e49887ba94ac17cc4bb>



Water Year	Reported Dry Wells
2015	1
2016	1
2017	9
2018	4
2019	3
2020	0
2021	1
2022	10
2023	10



ECONOMIC CONSIDERATIONS

- Balancing stakeholder priorities – drinking water users need supply reliability; agricultural users desire operational flexibility to generate economic benefits
- What is the \$ impact on agricultural industry vs. costs to maintain drinking water supplies through managing water levels?
- As an example, a \$1M/yr well mitigation program would provide sufficient funds to mitigate approximately >15 dewatered wells per year (>240 by 2040):
 - \$1/AFY pumped groundwater x 1.3 MAFY = \$1.3M
 - \$1.5/irrigated acre x 663,000 irrigated acres = \$0.99M
 - \$0.50/acre x 1,945,000 acres = \$0.97M

“SIGNIFICANT AND UNREASONABLE” TEST

Avoid significant and unreasonable impacts to beneficial users, specifically, dewatering of drinking water wells

- How many drinking water wells would be projected to go dry if 25% of RMWs exceeded their MTs?

25% OF RMWs CAN REACH MTs WITHOUT CREATING URs

- Basin has 200 RMWs
- Assigned all drinking water wells to the closest RMW
- Based on distribution of wells and RMWs, 78 RMWs (39%) could reach MTs without dewatering more than 15 drinking water wells
- GSAs have determined that if 25% of RMWs reach MTs, it is not “significant and unreasonable” so long as no more than 15 drinking water wells (1%) are dewatered

GSA's PLAN TO BUILD OFF EXISTING SUCCESSFUL WELL MITIGATION PROGRAMS USED BY BASIN'S BANKING PROJECTS

- Affected landowners submit a claim and [GSA] representative performs a field inspection of the well, casing, and pumping equipment.
- Mitigation measures may include one or more of the following:
 - Short-term emergency water supply to domestic well owners.
 - Funds to lower a well pump.
 - Funds to complete a connection to an M&I water provider.
 - Provide an equivalent water supply from an alternate source.
 - Funds to replace the affected well with a deeper well.
 - Reducing or adjusting recovery pumping as necessary to avoid the impact.
 - Other acceptable mitigation with consent of the landowner.
- GSAs have begun collaborating with Self-Help Enterprises

COMPLIANCE WITH REGULATIONS – MINIMUM THRESHOLDS

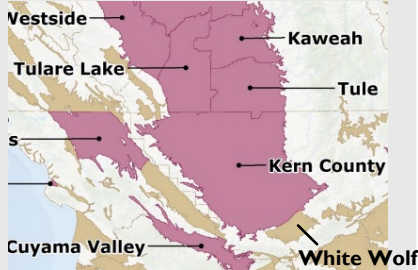
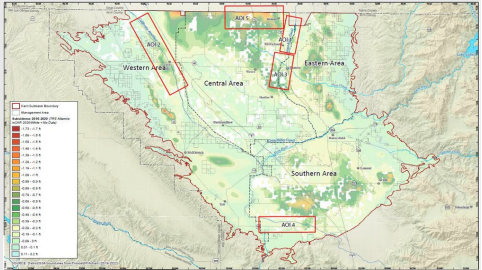
Per § 354.28: Each Agency in its Plan shall establish minimum thresholds that quantify groundwater conditions for each applicable sustainability indicator at each monitoring site or representative monitoring site

...Minimum thresholds for chronic lowering of groundwater levels shall be supported by the following:

*(A) The **rate of groundwater elevation decline** based on historical trends, water year type, and projected water use in the basin.*

(B) Potential effects on other sustainability indicators.

GROUNDWATER LEVEL SMC DEVELOPMENT PROCESS

ID Beneficial Users	Impacts to Beneficial Users / URs	Consideration of Adjacent Basins	Relationships with Other Sustainability Indicators	State, Federal, and Local Standards
<ul style="list-style-type: none"> • Holders of overlying GW rights (ag users, domestic well owners) • Municipal Well Operators • Water Banks 	<ul style="list-style-type: none"> • Well impacts analysis to assess vulnerability of well dewatering, with a focus on drinking water wells 	<ul style="list-style-type: none"> • Compare MOs/MTs to those in adjacent basins/GSP areas to assess potential impacts to GW gradients 	<ul style="list-style-type: none"> • GW Storage • SGMA-related Subsidence • Water Quality 	<ul style="list-style-type: none"> • Not applicable for water levels

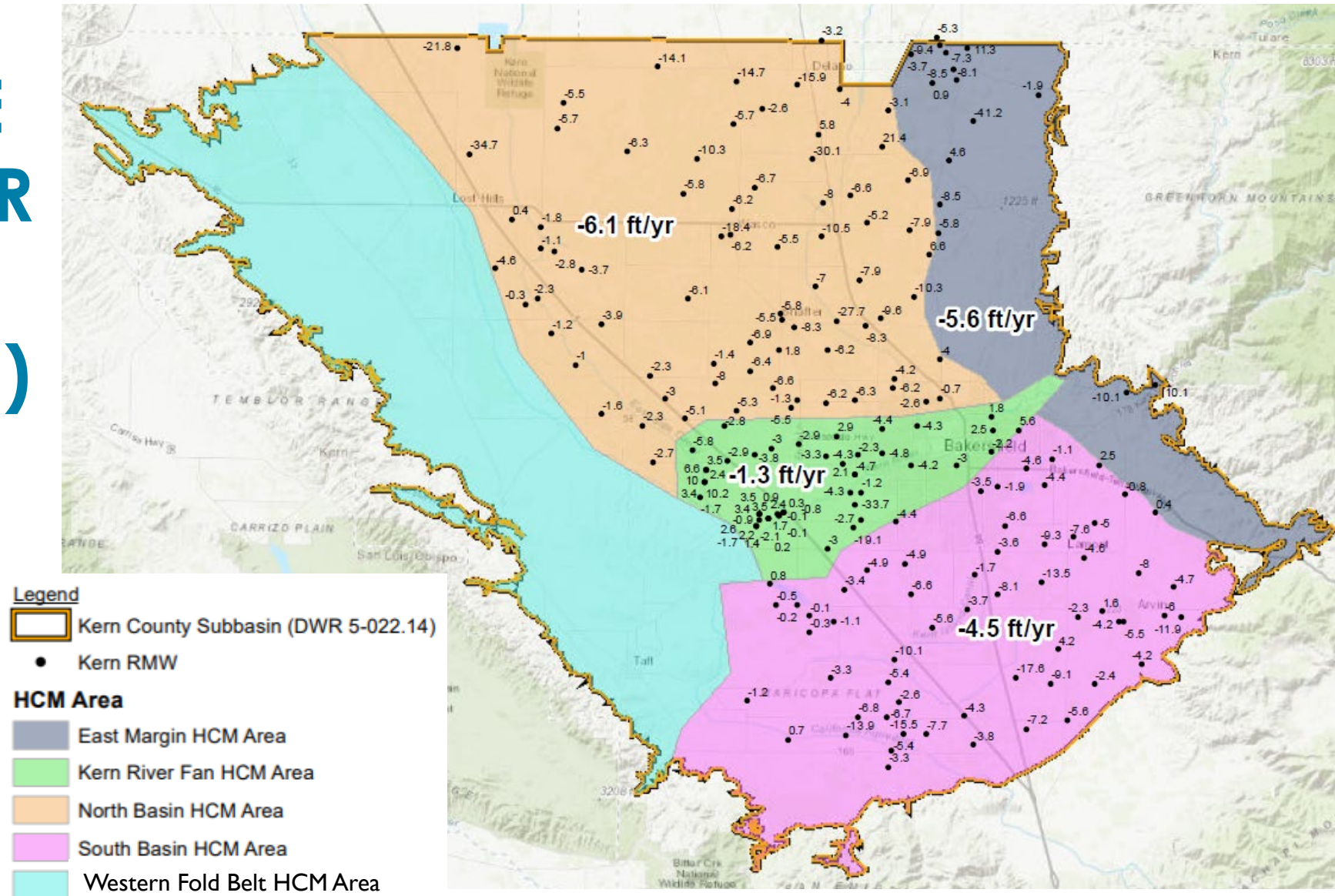
SUBBASIN MT CONSIDERATIONS AND METHOD

Rate of groundwater elevation decline based on historical trends

- Regionalized trends based on Hydrogeologic Conceptual Model (HCM)
- Groundwater levels take time to respond to P/MAs

HCM AREAS AND AVERAGE GROUNDWATER LEVEL TRENDS (WY 2009-2022)

- Ongoing refinements to trends



DRAFT – UNDER REFINEMENT

SUBBASIN MT CONSIDERATIONS AND METHOD

Rate of groundwater elevation decline based on historical trends

- Regionalized trends based on Hydrogeologic Conceptual Model (HCM)
- Groundwater levels take time to respond to P/MAs

Water year type

- Ensure sufficient water supply through more variable hydrologic conditions

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Projected water use

- Water bank operations recharge and recover millions of AF
- Maintaining access for drinking water users

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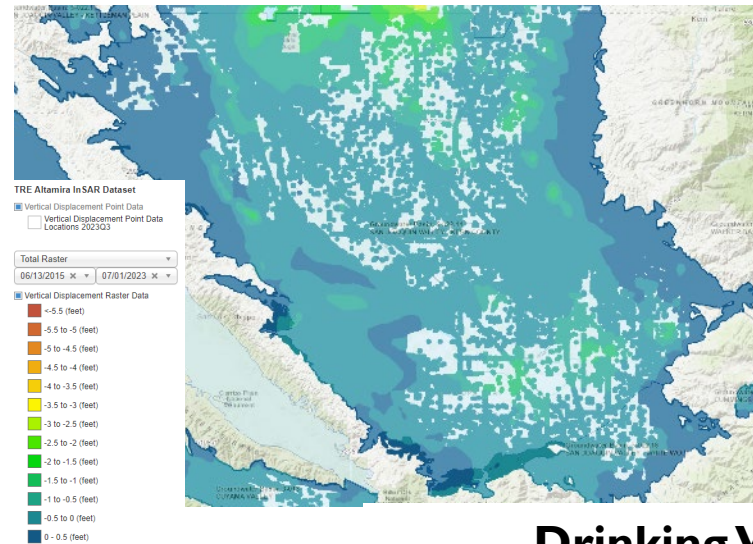
Other sustainability indicators

- SGMA-related subsidence near critical infrastructure
- Water quality degradation near urban areas

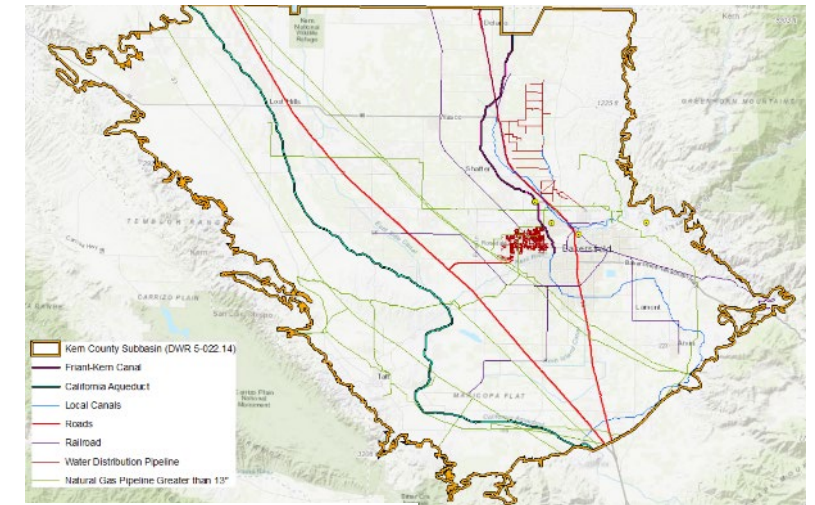
POTENTIAL MT ADJUSTMENT AREAS TO ADDRESS OTHER SUSTAINABILITY INDICATORS

- Upward adjustments to MTs may occur where protections for beneficial users are appropriate (e.g., ag pumping related subsidence, water quality, drinking water well impacts)

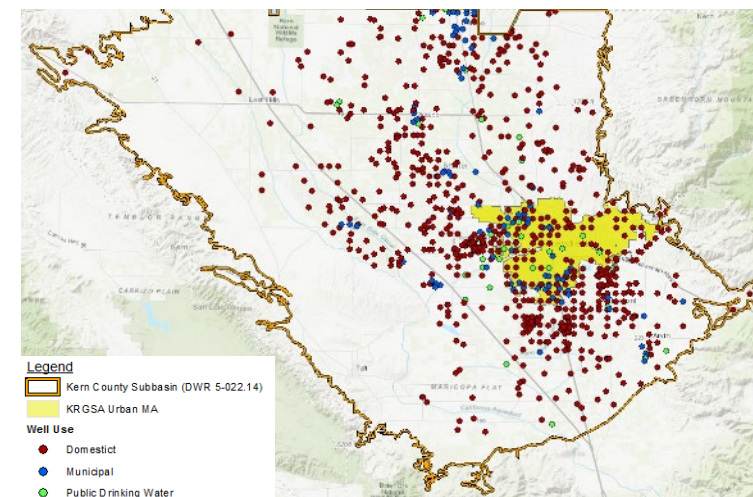
Land Subsidence



Critical Infrastructure



Drinking Water Users



MT IS THEN BASED ON EITHER:

- Groundwater level in 2030 if regional groundwater level trends continued from 2015 low as they did under recent (post-2009) imported water supply reliability conditions

OR

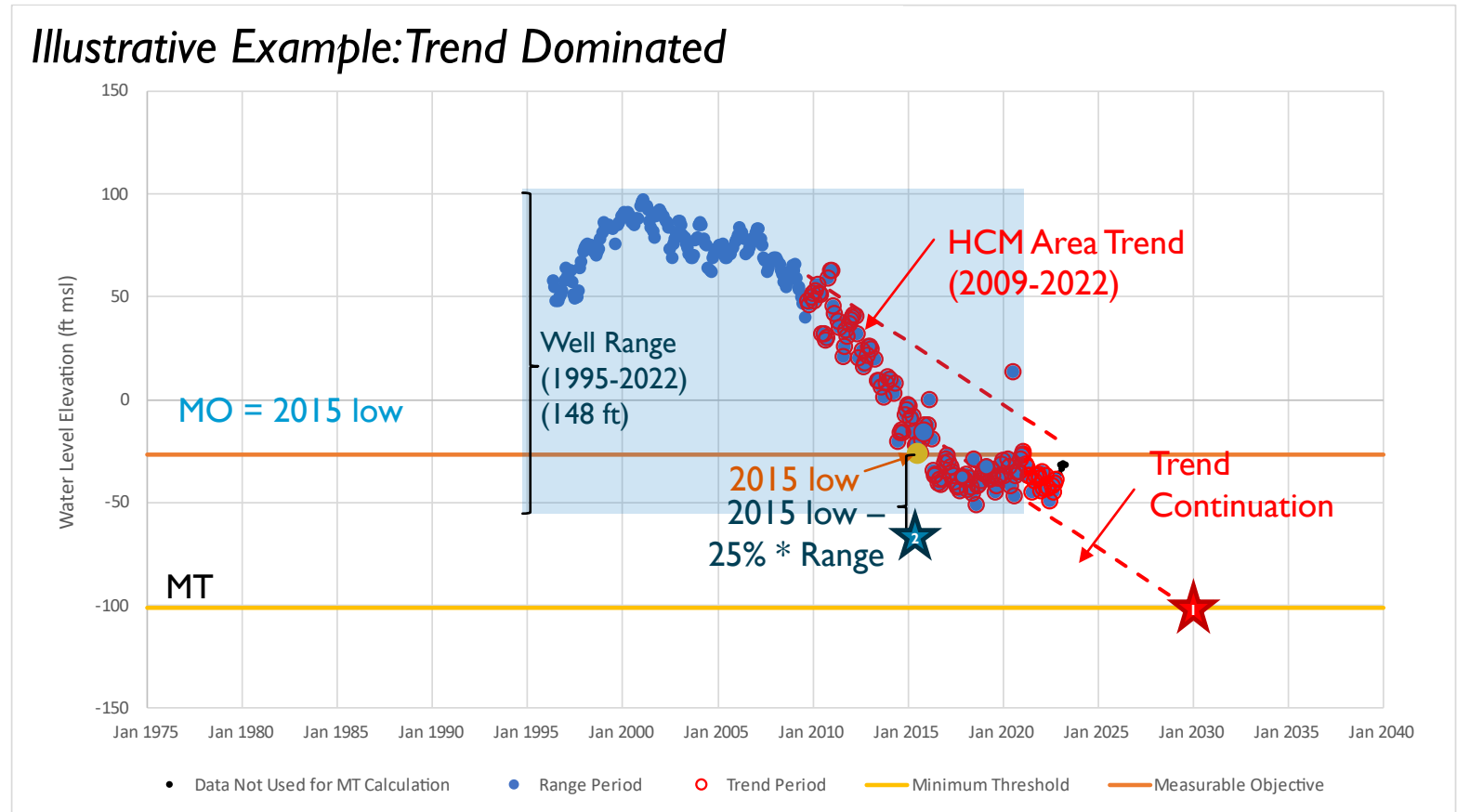
- Groundwater level that allows operational flexibility below 2015 low, based on site-specific record of groundwater response to recharge and recovery

DEFINITIONS

- **2015 low:** Low water level observed during Fall/Winter 2015, or based on data availability, estimated from an interpolation or the closest representative measurement
- **Trend:** Regional (HCM Area) water level trend WY 2009 - WY 2022 (ft/yr)
- **Range:** Difference between highest and lowest water level measurements in well WY 1995 - WY 2022 (ft)

MT CALCULATION – TREND DOMINATED

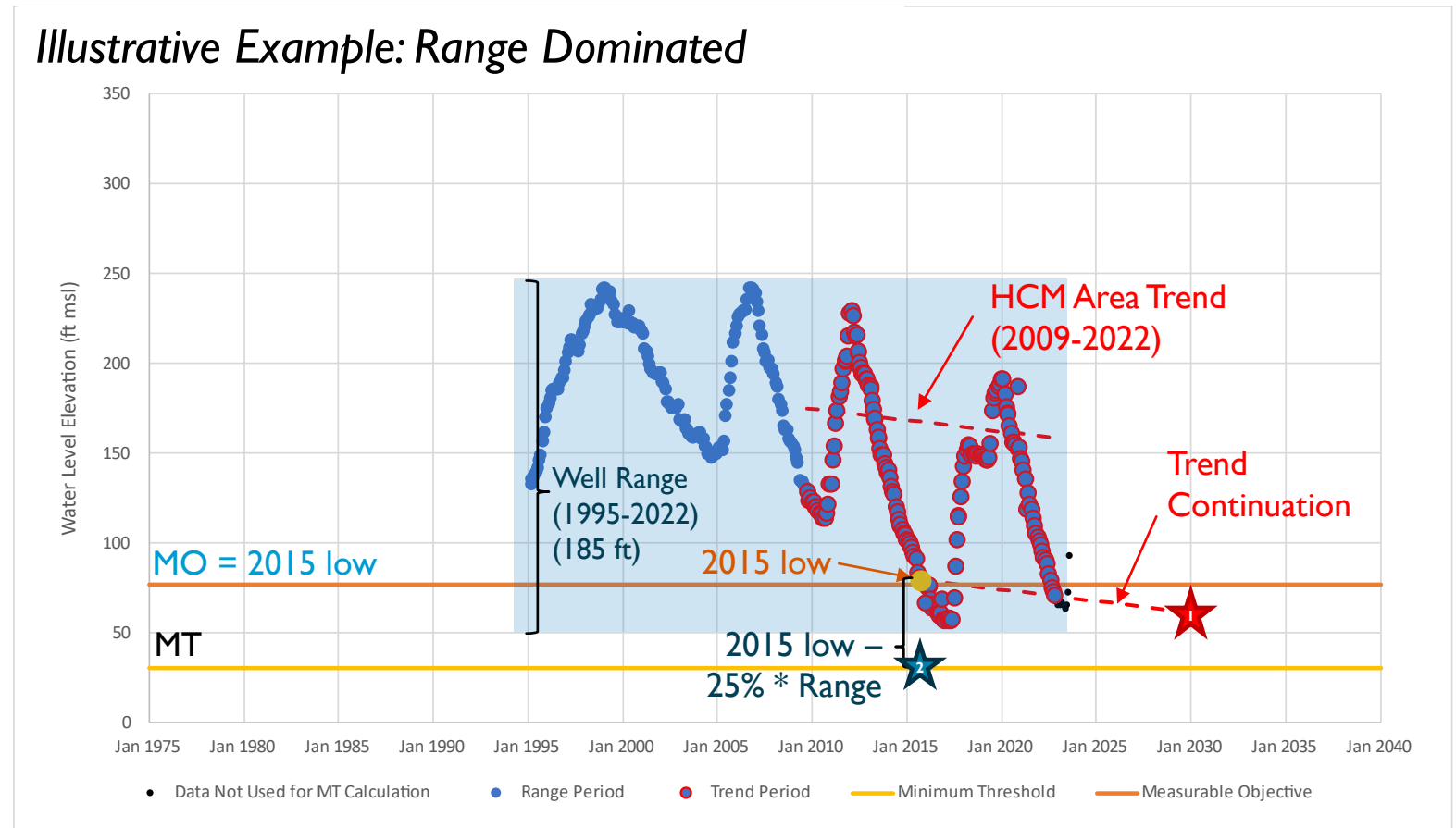
- Start at 2015 low
- Step 1: Extend the regional water level trend forward to 2030
- Step 2: Subtract 25% of the well-specific range from 2015 low
- The MT is selected as the lower of either Step 1 or 2*



* unless in a high-risk area wherein the MT may be adjusted upward or set at current conditions if no significant impacts have been observed

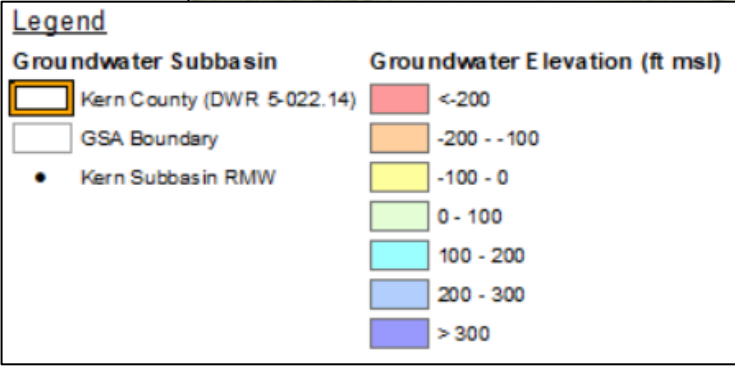
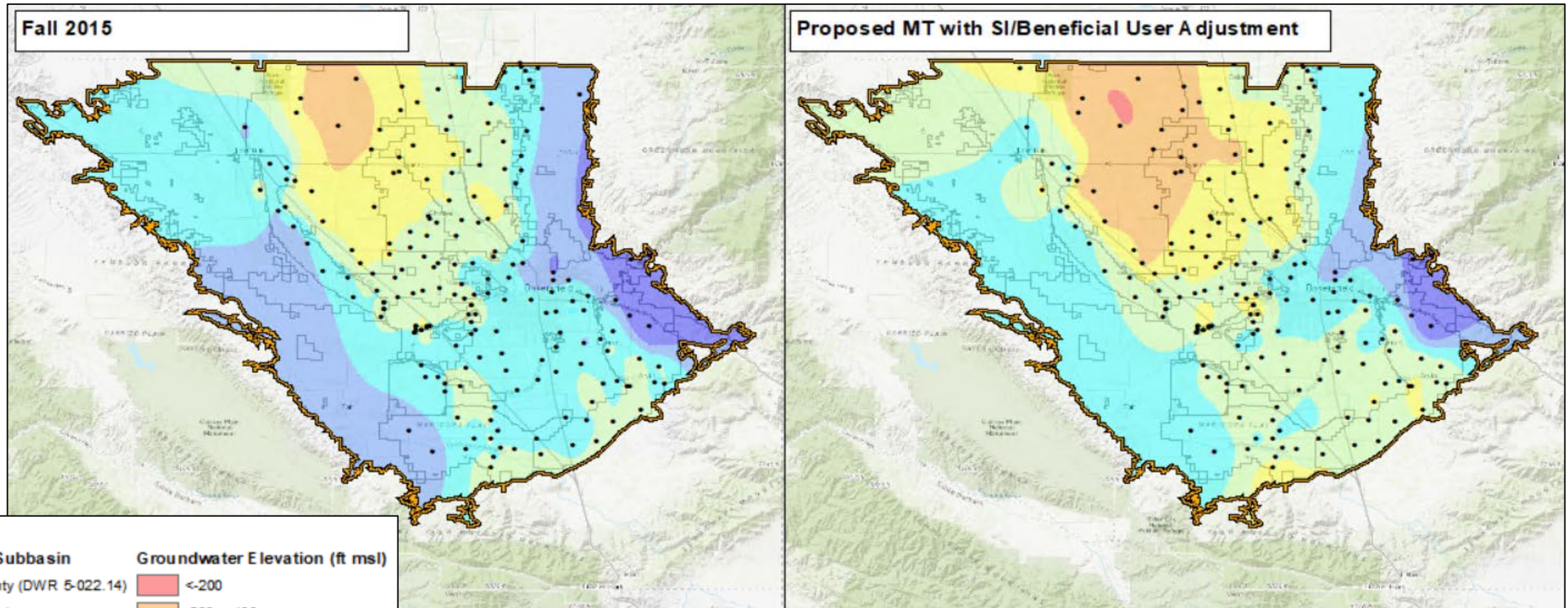
MT CALCULATION – RANGE DOMINATED

- Start at 2015 low
- Step 1: Extend the regional water level trend forward to 2030
- Step 2: Subtract 25% of the well-specific range from 2015 low
- The MT is selected as the lower of either Step 1 or 2*



* unless in a high-risk area wherein the MT may be adjusted upward or set at current conditions if no significant impacts have been observed

CHECK: SPATIAL DISTRIBUTION OF MTs / GRADIENTS IS NOT SIGNIFICANT AND UNREASONABLE



DRAFT- UNDER REFINEMENT

WELL IMPACTS IF 25% RMWs EXCEED MTs ARE NOT SIGNIFICANT AND UNREASONABLE

- Based on distribution of RMWs and wells, there are scenarios where 25% of RMWs could hit MTs without dewatering 15 drinking water wells (1% of drinking water wells)
- GSAs are committed to having a well mitigation plan in place to address drinking water well impacts

MT JUSTIFICATION

- ❑ The number of wells anticipated to be impacted does not exceed the UR definition.
- ❑ Resultant MT gradients are similar to those observed under recent (2015-2022) conditions.
- ❑ The resultant MTs generally provide for sufficient operational range below the MOs.
- ❑ The resultant MTs are designed to not have negative effects on other Sustainability Indicators (CCR 354.28(B)).
- ❑ The Model results generally support groundwater levels above proposed MTs with implementation of planned P/MAs.
- ❑ The methodology is consistent with the SGMA regulations “rate of groundwater elevation decline based on historical trends, water year type, and projected water use in the basin” (CCR 354.28(A)).

COMPLIANCE WITH REGULATIONS – MEASURABLE OBJECTIVES

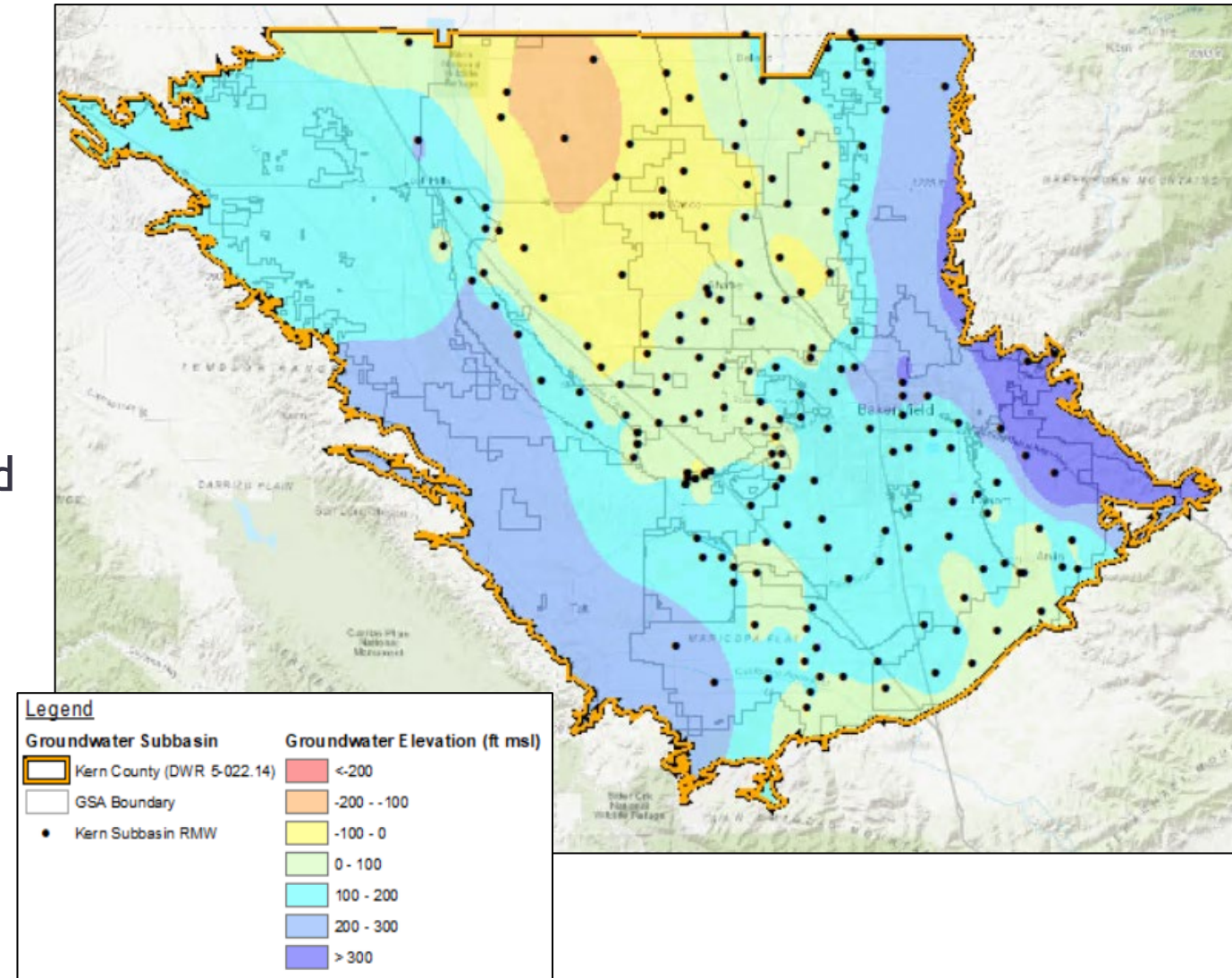
Per § 354.30: Measurable Objectives shall...

*(B) ...be established for each sustainability indicator, based on quantitative values using the **same metrics and monitoring sites as are used to define the minimum thresholds.***

*(C) ...provide a **reasonable margin of operational flexibility** under adverse conditions which shall take into consideration components such as historical water budgets, seasonal and long-term trends, and periods of drought, and be commensurate with levels of uncertainty.*

PROPOSED MOs

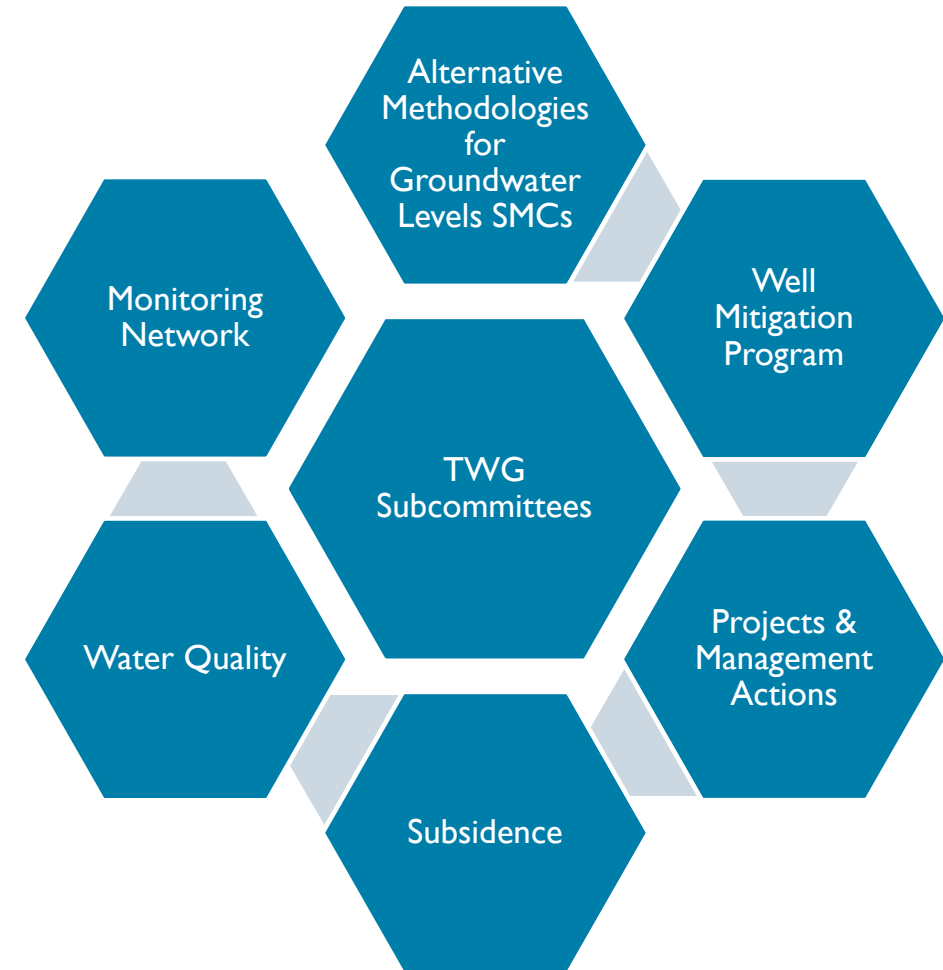
- 2015 low groundwater levels
- MO Justification:
 - Aligns with projected water levels assuming implementation of the planned P/MAs
 - Provide for sufficient operational range above MT
 - Consistent with the Subbasin's sustainability goal and general intent of SGMA
 - Doesn't result in significant and unreasonable well/economic impacts



DRAFT- UNDER REFINEMENT

NEXT STEPS

- Continue to refine Groundwater Level SMC methodology based on feedback
- Continue work to address DWR deficiencies
 - Technical Working Group (TWG) subcommittees
 - GSP revisions
- Continue stakeholder engagement



THANK YOU