



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

**August 11, 2023
8:00 a.m.**

1. CALL TO ORDER / ROLL CALL

2. APPROVAL OF MINUTES

- a) Regular Board Minutes of July 11, 2023
 - b) Special Meeting Minutes of July 25, 2023
-

3. FINANCIAL REPORT

- a) Treasurer's Report (MM)
 - b) Accounts Payable (MM)
 - c) Revenue and Expenditures (MM)
-

4. OPERATIONS AND MAINTENANCE REPORT

- a) District Groundwater Levels (MN)
 - b) Operations (ZS)
 - c) Maintenance (ZS)
-

5. WATER RESOURCES REPORT

- a) State Water Project Operations (TT)
 - b) California Delta Conveyance Project (TT)
 - c) Update on Landowner Banking Program (TT)
 - d) Consideration of Water Banking Agreement with TLBWSD (TT)
-

6. MANAGER'S REPORT

- a) Strategic Plan Update (RE)
- b) Consideration of Continuing Emergency Action - Public Contract Code §22050(c)(1) – Resolution No.531 (RE)

7. ENGINEER'S REPORT

- a) Onyx Ranch Project
 - i. Operations (DB)
 - ii. FEMA Disaster Relief Application (RE)
- b) Improvement Projects (MN)
 - i. Consideration of Well Bid (MN)
 - ii. Consideration of Technical Services Agreement (MN)

8. COMMITTEE/SPECIAL PROJECT ACTIVITIES

- a) Groundwater Banking Joint Powers Authority (DB & TT)
 - i. Stockdale North Conceptional Layout
 - ii. CEQA Lead Agency Agreement
- b) James Groundwater Banking Authority (DB)
 - i. 90% Conveyance Plans
- c) Sustainable Groundwater Management Act (DB & TT)
 - i. Water Charge Management Action Implementation (TT)
 - ii. GSP Deficiency Resolution (DB & TT)
 - iii. Consideration of Technical Services Contract for GSP Drafting (TT)
- d) Kern Fan Monitoring Committee (MN)
- e) Cross Valley Canal Advisory Committee (DB)
- f) Pioneer Project Committee (DB)
- g) Kern River Watershed Coalition Authority (ZS)
- h) Kern Fan Authority (DB)
- i) Joint Operating Committee (DB & TT)
- j) Committee for Delta Reliability (TT)
- k) South Valley Water Resources Authority (TT)
- l) Valley Ag Water Coalition (TT)
- m) Kern Integrated Regional Water Management Plan (TT)
- n) Sites Reservoir Project (TT)
- o) Association of California Water Agencies (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)*: Four (4) Matters
- b) Conference with legal counsel – Anticipated Litigation: Initiation of Litigation – *Government Code Section 54956.9(d)(4)*: Two (2) Matters

- 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)

- d) Conference with real property negotiator – *Government Code Section 54956.8* – Negotiators: Dan Bartel / Dan Raytis
 - i. Property: Water Supply (Delta Conveyance). Negotiating parties: Various parties and Rosedale-Rio Bravo Water Storage District. Under negotiation: Price & Terms of Payment
 - ii. Property: Water Supply (2023 Supplies). Negotiating parties: Various parties and Rosedale-Rio Bravo Water Storage District. Under negotiation: Price & Terms of Payment
 - iii. Property: License / Easement for Canal Facility. Negotiating parties: Various parties and Rosedale-Rio Bravo Water Storage District. Under negotiation: Price & Terms of Payment
 - iv. Property: Various Parcels – Potential District Projects. Negotiating parties: Various parties and Rosedale-Rio Bravo Water Storage District. Under negotiation: Price & Terms of Payment
 - v. Property: APN 104-240-49 & 51. Negotiating Parties: SH Bakersfield LLC and Rosedale-Rio Bravo Water Storage District. Under negotiations: Price & Terms of Payment.

- e) Personnel – Government Code Sections 54957 and 54957.6 – Performance Evaluation – District Employees. Conference with Labor Negotiator – District Representative: DanRaytis; Unrepresented Employees – District Employees

14. ADJOURNMENT

DECLARATION OF POSTING: I, Rachelle 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 August 9, 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.***

BOARD OF DIRECTORS
ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT
MINUTES OF THE REGULAR BOARD MEETING
July 11, 2023
8:00 a.m.

DIRECTORS PRESENT

Roy Pierucci, Jason Selvidge, Gary Unruh, Barry Watts & Mitch Millwee

DIRECTORS ABSENT

None

OTHERS PRESENT

District Staff / Consultants – Dan Bartel, Trent Taylor, Megan Misuraca, Markus Nygren, Dan Raytis, Zach Smith, Rachele Echeverria & Jennifer Spaletta (via telephone for closed session only).

Public – John Gaugel & Vincent Sorena

CALL TO ORDER

President Pierucci called the meeting to order at 8:00 a.m.

APPROVAL OF MINUTES

- a) Regular Board Meeting Minutes – June 13, 2023
- b) Special Meeting Minutes – June 20, 2023

A motion was made by Director Unruh with a second by Director Watts to approve the Board of Directors' June 13, 2023 regular and June 20, 2023 special meeting minutes. The motion was unanimously passed.

AYES: Directors Pierucci, Selvidge, Unruh, Millwee and Watts

NOES: None

ABSTAINED: None

FINANCIAL REPORT

- a) Treasurer's Report – Ms. Misuraca reviewed the treasurer's report as of June 30, 2023.
- b) Accounts Payable/ June 10, 2023, through July 7, 2023 — Ms. Misuraca reviewed the accounts payable report with the Board. A motion was made by Director Millwee and seconded by Director Watts to ratify and approve payment of the accounts payable in the total amount of \$3,181,882.28. The motion unanimously passed.

AYES: Directors Pierucci, Selvidge, Unruh, Millwee and Watts

NOES: None

ABSTAINED: None

- c) Revenue and Expenditures Report – Ms. Misuraca reviewed the current Revenue and Expenditures Report through June 30, 2023, including budget vs. actual.

OPERATIONS AND MAINTENANCE REPORT

- a) District Groundwater Levels – Mr. Nygren presented instructions on where to find groundwater levels on the District’s website. In addition, he advised the Board of current groundwater levels with reference to the District’s minimum thresholds under SGMA.
- b) Operations Report – Mr. Smith reviewed water conveyance and recharge operations and estimated balances with the Board.
- c) Maintenance Report – Mr. Smith reviewed maintenance projects that have taken place over the last month.

WATER RESOURCES REPORT

- a) State Water Project Operations – Mr. Taylor gave a detailed report on current state water project operations. Mr. Taylor also reviewed the 8-station index graph and reservoir conditions with the Board.
- b) Update on Temporary Permit – Mr. Bartel reported that the Notice-Order procedure and temporary permit water operations ceased in June. He reported that the Kern River/California Aqueduct Intertie operations had also ceased in June.
- c) California Delta Conveyance Project – Mr. Taylor gave a brief status report on the DCP project.
- d) Consideration of a Water Banking Agreement- Santa Clarita Valley Water Agency – Mr. Taylor reviewed the 2:1 water banking agreement with Santa Clarita Valley Water Agency with the Board. A motion was made by Director Millwee with a second by Director Unruh to approve and authorize staff to execute the Santa Clarita Valley Water Agency 2:1 water banking agreement. The motion was passed on the following vote:
 - AYES: Directors Pierucci, Selvidge, Unruh, Millwee and Watts
 - NOES: None
 - ABSTAINED: None
- e) Update on Landowner Banking Programs – Mr. Taylor briefed the Board on the latest landowner banking program updates.

MANAGER’S REPORT

- a) Strategic Plan Update – Ms. Echeverria briefed the Board on staff’s progress for Goal #5 of the District’s adopted strategic plan ensuring that key responsibilities within the agency are sustainable and efficient.
- b) Consideration of Resolution No. 531 Flood Emergency Declaration – Ms. Echeverria reported on the Governor of California’s Executive Order N-4-23 and updated conditions. A motion was made by Director Unruh with a second by Director Watts to continue the emergency action of Resolution 531 – declaring a flood emergency and to authorize procurement of equipment, services, & supplies for such emergencies without giving notice for bids to let contracts. The motion unanimously passed.
 - AYES: Roy Pierucci, Jason Selvidge, Gary Unruh, Barry Watts & Mitch Millwee
 - NOES: None.
 - ABSTAINED: None.

- c) Staff Professional Recognition – Mr. Bartel reported that Ms. Echeverria received her CEQA Practice Certificate from the University of San Diego. The Board congratulated Ms. Echeverria.

ENGINEERS / PROJECTS REPORT

a) Onyx Ranch

- i. Operations Report – Mr. Bartel briefed the Board on the status of the Onyx Ranch operations, noting the pause on the project had been lifted as of July 5, 2023 and 37cfs was flowing to Lake Isabella. Mr. Barel also reported the District applied for FEMA funding support for the costs of damage repairs from flooding on the ranch.
- ii. Ratification of Purchase and Sale Agreement- Store and Cabin – Mr. Bartel reported that an offer was received for the Onyx Store and Cabin at 23002 Highway 178. A motion was made by Director Selvidge with a second by Director Unruh to ratify the Purchase and Sale Agreement for the Onyx Store and Cabin in the amount of \$400,000. The motion unanimously passed.

AYES: Directors Pierucci, Selvidge, Unruh, Millwee and Watts

NOES: None

ABSTAINED: None

- iii. Consideration of Agreements Necessary to Sell Store and Cabin – Mr. Bartel reported various improvements are needed to complete the sell of the store and cabin. A motion was made by Director Watts with a second by Director Selvidge to authorize staff to execute necessary future agreements for improvements necessary for the completion of the Onyx store and cabin sell. The motion unanimously passed.

AYES: Directors Pierucci, Selvidge, Unruh, Millwee and Watts

NOES: None

ABSTAINED: None

- iv. Streambed Alteration Permit Applications – Ms. Echeverria briefed the Board on the status of streambed alteration permits.
- v. Consideration of Well Equipping Proposal – Mr. Nygren reported the Onyx domestic well drilling was completed in the spring. A motion was made by Director Millwee with a second by Director Watts to approve a budget not to exceed \$100,000 for the equipping of the Onyx domestic well. The motion unanimously passed.

AYES: Directors Pierucci, Selvidge, Unruh, Millwee and Watts

NOES: None

ABSTAINED: None

- b) Improvement Projects – Mr. Nygren reported the bid opening for the McCaslin / Bowling Recovery Well Project is set for August 3, 2023.

- i. Consideration of Construction Proposal - Bowling Well Pad – Mr. Nygren reported that staff had received a proposal from Nicholas Construction to construct the earthen pad for the Bowling Well. A motion was made by Director Unruh with a second by Director Watts to approve the proposal from Nicholas Construction in the amount of \$67,270 for

the construction of the earthen pad for the Bowling well, subject to confirmation the site is adequately spaced away from other well sites. The motion unanimously passed.

AYES: Directors Pierucci, Selvidge, Unruh, Millwee and Watts

NOES: None

ABSTAINED: None

COMMITTEE REPORTS

- a) Groundwater Banking Joint Powers Authority – Mr. Bartel reported the Board will be meeting in September.
- b) James Groundwater Banking Authority – Mr. Bartel briefed the Board on the latest Operations Committee meeting.
- c) Sustainable Groundwater Management Act
 - i. Water Charge Management Action Implementation – Mr. Taylor reported that staff is working with counsel and AECOM to develop a rate study; he also provided an update on upcoming steps in the process of developing and implementing a water charge.
 - ii. Stakeholder Meeting Report – No report.
 - iii. GSP Deficiency Resolution – Mr. Bartel and Mr. Taylor briefed the Board on the efforts to update the GSP to address deficiencies per the Department of Water Resources’ letter declaring the basin plan is inadequate noting revised GSPs are required by the end of 2023.
 - iv. Consideration of Temporary Associate Membership Agreement with KGA – Mr. Bartel reviewed the agreement with the Board. A motion was made by Director Unruh with a second by Director Selvidge to approve and authorize staff to execute the Kern Groundwater Authority Temporary Associate Membership Agreement in substantially the same form as present. The motion unanimously passed.

AYES: Directors Pierucci, Selvidge, Unruh, Millwee and Watts

NOES: None

ABSTAINED: None
- d) Kern Fan Monitoring Committee – No report.
- e) Cross Valley Canal Advisory Committee – Mr. Bartel briefed the Board on CVC Operations.
- f) Pioneer Project Committee – Mr. Bartel briefed the Board on the latest activities and noted the costs for the aerial survey will be split amongst all participants.
- g) Kern River Watershed Coalition Authority (KRWCA) – No report
- h) Kern Fan Authority – No report
- i) Joint Operating Committee (JOC) – No report
- j) Committee for Delta Reliability – No report
- k) South Valley Water Resources Authority – Mr. Taylor reported changes to entities funding the Fish Friendly Diversion Project and presented a restructured funding plan for the project. A motion was made by Director Unruh with a second by Director Watts to approve participation in the Fish Friendly Diversion project with a contribution in the amount of \$25,270. The motion unanimously passed.

AYES: Directors Pierucci, Selvidge, Unruh, Millwee and Watts

NOES: None

ABSTINED: None

- l) Valley Ag Water Coalition – No report
- m) Kern Integrated Regional Water Management Plan – No report
- n) Sites Reservoir Project – Mr. Taylor briefed the Board on the latest activities.
- o) Association of California Water Agencies – Mr. Taylor briefed the Board on the latest activities.

ATTORNEY’S REPORT

None.

OLD OR NEW BUSINESS

Mr. Pierucci requested staff design a water project map for the District to be printed for the office.

CORRESPONDENCE

None.

PUBLIC COMMENT

None.

CLOSED SESSION

During the meeting, the Board met in closed session, as follows: At 9:56 a.m. President Pierucci announced the Board would meet in closed session. At 11:47 a.m. the Board reconvened to open session and Mr. Raytis announced there were no reportable actions taken in closed session.

ADJOURNMENT

Meeting was adjourned at 11:50 a.m.

BOARD OF DIRECTORS
ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT
MINUTES OF THE SPECIAL BOARD MEETING
July 25, 2023
1:00 p.m.

DIRECTORS PRESENT

Roy Pierucci, Jason Selvidge, Gary Unruh, Barry Watts & Mitch Millwee

DIRECTORS ABSENT

None

OTHERS PRESENT

District Staff / Consultants – Dan Bartel, Trent Taylor, Megan Misuraca, Dan Raytis, Zach Smith, Markus Nygren, Rachelle Echeverria & Monique Roberts (AECOM).
Public – Vincent Sorena

CALL TO ORDER

President Pierucci called the meeting to order at 1:00 p.m.

MANAGER’S REPORT

- a. Consideration of Groundwater Sustainability Plan Initial Notice (Cal. Wat. Code §10727.8) – Mr. Bartel reviewed the draft letter with the Board. A motion was made by Director Selvidge with a second by Director Watts to approve the Notice of Intent to Prepare a Groundwater Sustainability Plan letter and authorize staff to execute and send to Department of Water Resources/County of Kern, and to post it on the District’s website. The motion unanimously passed.

AYES: Directors Pierucci, Selvidge, Unruh, Watts and Millwee

NOES: None.

ABSTAINED: None.

- b. Discussion of Water Charge Policies and Procedures – Mr. Taylor presented the details of the proposed water charge policies and procedures in detail with the Board. A robust discussion was had regarding various aspects of the proposed water charge and the policies for implementing the same.

OLD OR NEW BUSINESS

None.

PUBLIC COMMENT

None.

CLOSED SESSION

During the meeting, the Board met in closed session, as follows: At 2:48 p.m. President Pierucci announced the Board would meet in closed session. At 3:45 p.m. the Board reconvened to open session and Mr. Raytis announced there were no reportable actions taken in closed session.

ADJOURNMENT

Meeting was adjourned at 3:50 p.m.

Rosedale- Rio Bravo WSD
RRB Monthly Board Cash Report
As of July 31, 2023

	<u>Credit</u>	<u>Debit</u>	<u>Balance</u>
10006 · Tri-Counties Bank-Operations			1,415,512.63
Total 10006 · Tri-Counties Bank-Operations	788,608.17	965,648.76	1,238,472.04
10007 · Tri-Counties Bank-Payroll			153,998.84
Total 10007 · Tri-Counties Bank-Payroll	160,172.80	200,488.30	113,683.34
10100 · General County Fund # 60510			4,396,483.97
Total 10100 · General County Fund # 60510	19,825.19	0.00	4,416,309.16
10101 · Operations County Fund # 60520			48,364.35
Total 10101 · Operations County Fund # 60520	201.45	0.00	48,565.80
10102 · Bond Debt County Fund # 60526			5,133.98
Total 10102 · Bond Debt County Fund # 60526	21.39	0.00	5,155.37
10103 · Bond Reserve County Fund #60527			938.76
Total 10103 · Bond Reserve County Fund #60527	3.91	0.00	942.67
10503 · 2018 COP Reserve Fund Account			1,070,713.40
Total 10503 · 2018 COP Reserve Fund Account	*Balance as of 06/30/2023		1,070,713.40
10504 · 2020 COP W.F. Trust Funds M.M.			725,358.69
Total 10504 · 2020 COP W.F. Trust Funds M.M.	306.36	725,350.46	314.59
10551 · Goldman Sachs Money Market			8,587,671.95
Total 10551 · Goldman Sachs Money Market	35,009.08	0.00	8,622,681.03
TOTAL CASH	1,004,148.35	1,891,487.52	15,516,837.40
10550 · Investment AMG - Wells Fargo			12,096,057.63
Total 10550 · Investment AMG - Wells Fargo	51,684.31	0.00	12,147,741.94
TOTAL CASH EQUIVALENT	51,684.31	0.00	12,147,741.94
TOTAL CASH AND CASH EQUIVALENT	1,055,832.66	1,891,487.52	27,664,579.34

Rosedale- Rio Bravo WSD Accounts Payable Report July 8 through August 9, 2023

Type	Num	Date	Name	Account	Paid Amount
Check		07/31/2023		10006 · Tri-Counties Bank-Operations	
				60100 · Bank Service Charges	-193.14
TOTAL					-193.14
Bill Pmt -Check	ACH	07/21/2023	Purchase Power	10006 · Tri-Counties Bank-Operations	
Bill	8107 July 23	07/01/2023		62009 · Postage and Delivery	-100.00
TOTAL					-100.00
Check	ACH	08/09/2023	CALPERS	10006 · Tri-Counties Bank-Operations	
				60006 · Benefits- CalPers Retirement	-350.00
				60006 · Benefits- CalPers Retirement	-350.00
TOTAL					-700.00
Bill Pmt -Check	2558	07/12/2023	Benjamin P. Ruiz	10006 · Tri-Counties Bank-Operations	
Bill	July 2023 Bowling	07/12/2023	RRBWSD:McCaslin/Bowling Recovery	63005 · Environmental Consultants	-1,200.00
			RRBWSD:McCaslin/Bowling Recovery	63005 · Environmental Consultants	-2,200.00
TOTAL					-3,400.00
Bill Pmt -Check	2559	07/12/2023	CA Dept of Fish & Wildlife Central Region	10006 · Tri-Counties Bank-Operations	
Bill	40539-BooneNicollMac	06/29/2023	RRBWSD:Onyx Ranch	60200 · Licenses, Permits and Fees	-8,418.75
TOTAL					-8,418.75
Bill Pmt -Check	2560	07/12/2023	Dan Bartel-Expense Acct	10006 · Tri-Counties Bank-Operations	
Bill	20230630	07/12/2023		62000 · General Office Expense	-148.90
TOTAL					-148.90
Bill Pmt -Check	2561	07/12/2023	Secretary of State	10006 · Tri-Counties Bank-Operations	
Bill	20230712	07/12/2023		60200 · Licenses, Permits and Fees	-40.00
TOTAL					-40.00
Bill Pmt -Check	2562	07/12/2023	CA Dept of Fish & Wildlife Central Region	10006 · Tri-Counties Bank-Operations	
Bill	41511-LandersNicollH	06/29/2023	RRBWSD:Onyx Ranch	60200 · Licenses, Permits and Fees	-8,418.75
TOTAL					-8,418.75
Bill Pmt -Check	2564	07/24/2023	ACE HARDWARE	10006 · Tri-Counties Bank-Operations	
Bill	63121	07/10/2023		61650 · Operating Supplies	-31.36
TOTAL					-31.36
Bill Pmt -Check	2565	07/24/2023	ACWA JPIA (W/C,Auto,GL,Prop)	10006 · Tri-Counties Bank-Operations	
Bill	INV014279	07/01/2023		63010 · GL/Property/Auto Insurance Prem	-1,898.00
Bill	0010478	07/10/2023		63010 · GL/Property/Auto Insurance Prem	-23,225.88
Bill	20230630	07/17/2023		20032 · Workers Comp Liability	-8,140.43
				20032 · Workers Comp Liability	-0.11
TOTAL					-33,264.42
Bill Pmt -Check	2566	07/24/2023	Benjamin P. Ruiz	10006 · Tri-Counties Bank-Operations	
Bill	Nickels Emerg. July	07/24/2023	RRBWSD:Onyx Ranch	63005 · Environmental Consultants	-4,200.00
			RRBWSD:Onyx Ranch	63005 · Environmental Consultants	-1,200.00
TOTAL					-5,400.00

Rosedale- Rio Bravo WSD Accounts Payable Report July 8 through August 9, 2023

Type	Num	Date	Name	Account	Paid Amount
Bill Pmt -Check	2567	07/24/2023	BUENA VISTA W.S.D.	10006 · Tri-Counties Bank-Operations	
Bill	7021 7/6/23	07/06/2023		61050 · Other Water Purch Expense	-5,839.95
TOTAL					-5,839.95
Bill Pmt -Check	2568	07/24/2023	Builders Mart	10006 · Tri-Counties Bank-Operations	
Bill	4612 June 23	07/01/2023	RRBWSD:Onyx Ranch	61650 · Operating Supplies	-283.28
TOTAL					-283.28
Bill Pmt -Check	2569	07/24/2023	Carroll's Tire Warehouse	10006 · Tri-Counties Bank-Operations	
Bill	90119	07/07/2023		65000 · Auto and Truck Maint. & Repair	-146.24
TOTAL					-146.24
Bill Pmt -Check	2570	07/24/2023	Christensen, Inc.	10006 · Tri-Counties Bank-Operations	
Bill	262147CT	07/15/2023	RRBWSD:Onyx Ranch	61800 · Fuel	-567.43
				61800 · Fuel	-2,413.36
TOTAL					-2,980.79
Bill Pmt -Check	2571	07/24/2023	Costco Membership	10006 · Tri-Counties Bank-Operations	
Bill	1776 - Jul 23	07/01/2023		62005 · Dues and Membership	-60.00
TOTAL					-60.00
Bill Pmt -Check	2572	07/24/2023	CTL, Inc.	10006 · Tri-Counties Bank-Operations	
Bill	Onyx-10,000 Gal Stor	07/06/2023	RRBWSD:Onyx Ranch	70101 · Capital Well Expenses	-2,599.00
Bill	Onyx-15 HP Pump Inst	07/18/2023	RRBWSD:Onyx Ranch	70101 · Capital Well Expenses	-20,000.00
TOTAL					-22,599.00
Bill Pmt -Check	2573	07/24/2023	Esparza Enterprises, Inc	10006 · Tri-Counties Bank-Operations	
Bill	115086	07/12/2023	RRBWSD:Onyx Ranch	63007 · Other Contracted Services	-4,480.15
TOTAL					-4,480.15
Bill Pmt -Check	2574	07/24/2023	Grimmway Enterprises, Inc.	10006 · Tri-Counties Bank-Operations	
Bill	7016099	07/11/2023	Grimmway Farms-Customer:Grimmway Pilot Projec	70000 · Capital Water Structure Expense	-14,100.00
TOTAL					-14,100.00
Bill Pmt -Check	2575	07/24/2023	Jeffries Bros., Inc.	10006 · Tri-Counties Bank-Operations	
Bill	131090	07/07/2023	Groundwater Banking, JPA:West Enos Recharge	61800 · Fuel	-1,112.38
Bill	131089	07/07/2023	Grimmway Farms-Customer:Grimmway Pilot Projec	61800 · Fuel	-1,266.40
Bill	131133	07/10/2023	Groundwater Banking, JPA:West Enos Recharge	61800 · Fuel	-1,049.86
Bill	131132	07/10/2023	Grimmway Farms-Customer:Grimmway Pilot Projec	61800 · Fuel	-1,665.81
Bill	131056	07/11/2023	Groundwater Banking, JPA:West Enos Recharge	61800 · Fuel	-58.46
Bill	131191	07/12/2023	Groundwater Banking, JPA:West Enos Recharge	61800 · Fuel	-226.08
Bill	131192	07/12/2023	Grimmway Farms-Customer:Grimmway Pilot Projec	61800 · Fuel	-1,536.65
Bill	131363	07/15/2023	Grimmway Farms-Customer:Grimmway Pilot Projec	61800 · Fuel	-1,777.23
TOTAL					-8,692.87
Bill Pmt -Check	2576	07/24/2023	Kern County Auditor/Controller	10006 · Tri-Counties Bank-Operations	
Bill	2023-2024 LAFCO	07/29/2023		62005 · Dues and Membership	-5,970.00
TOTAL					-5,970.00
Bill Pmt -Check	2577	07/24/2023	Krazan & Associates, Inc	10006 · Tri-Counties Bank-Operations	

Rosedale- Rio Bravo WSD Accounts Payable Report July 8 through August 9, 2023

Type	Num	Date	Name	Account	Paid Amount
Bill	INV B627766-30632	07/01/2023	Grimmway Farms-Customer:Grimmway Pilot Projec	63004 · Engineering Services	-1,962.00
TOTAL					-1,962.00
Bill Pmt -Check	2578	07/24/2023	Mission Uniform Service	10006 · Tri-Counties Bank-Operations	
Bill	519654350	07/14/2023		63500 · Janitorial Expense	-142.92
TOTAL					-142.92
Bill Pmt -Check	2579	07/24/2023	Mt. Mesa Automotive	10006 · Tri-Counties Bank-Operations	
Bill	22432	07/24/2023	RRBWSD:Onyx Ranch	65000 · Auto and Truck Maint. & Repair	-2,388.63
TOTAL					-2,388.63
Bill Pmt -Check	2580	07/24/2023	Nelms Surveying Inc	10006 · Tri-Counties Bank-Operations	
Bill	213030-16	07/05/2023	RRBWSD:Onyx Ranch	63004 · Engineering Services	-328.75
TOTAL					-328.75
Bill Pmt -Check	2581	07/24/2023	POWERS ELECTRIC inc	10006 · Tri-Counties Bank-Operations	
Bill	76343	07/17/2023		61650 · Operating Supplies	-846.21
TOTAL					-846.21
Bill Pmt -Check	2582	07/24/2023	Rachelle Echeverria - Reimbursement	10006 · Tri-Counties Bank-Operations	
Bill	20230711	07/11/2023		62000 · General Office Expense	-28.25
TOTAL					-28.25
Bill Pmt -Check	2583	07/24/2023	Rosedale Kern Properties LLC	10006 · Tri-Counties Bank-Operations	
Bill	2023-2	07/01/2023		61660 · Property Lease Expense	-35,802.00
TOTAL					-35,802.00
Bill Pmt -Check	2584	07/24/2023	SEMITROPIC W.S.D.	10006 · Tri-Counties Bank-Operations	
Bill	20230622	07/01/2023		61450 · Regulatory Program Compliance	-1,023.77
TOTAL					-1,023.77
Bill Pmt -Check	2585	07/24/2023	Sierra Printers	10006 · Tri-Counties Bank-Operations	
Bill	69929	07/07/2023		62000 · General Office Expense	-201.60
TOTAL					-201.60
Bill Pmt -Check	2586	07/24/2023	Southern California Edison (700122257127)	10006 · Tri-Counties Bank-Operations	
Bill	700722257127 Jul 23	07/07/2023	RRBWSD:Onyx Ranch	66000 · Utilities	-18.27
			RRBWSD:Onyx Ranch	66000 · Utilities	-31.71
			RRBWSD:Onyx Ranch	66000 · Utilities	-18.27
			RRBWSD:Onyx Ranch	61301 · GW Well Pumping Expense	-8,294.63
			RRBWSD:Onyx Ranch	66000 · Utilities	-27.20
			RRBWSD:Onyx Ranch	61301 · GW Well Pumping Expense	-93.19
			RRBWSD:Onyx Ranch	66000 · Utilities	-104.48
			RRBWSD:Onyx Ranch	66000 · Utilities	-13.58
			RRBWSD:Onyx Ranch	61301 · GW Well Pumping Expense	-98.57
			RRBWSD:Onyx Ranch	60200 · Licenses, Permits and Fees	-48.48
TOTAL					-8,748.38
Bill Pmt -Check	2587	07/24/2023	Sterling Enterprises	10006 · Tri-Counties Bank-Operations	
Bill	6-30-23 Kern River	07/01/2023		63007 · Other Contracted Services	-2,014.40

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	Type	Num	Date	Name	Account	Paid Amount
TOTAL						-2,014.40
	Bill Pmt -Check	2588	07/24/2023	Verizon Wireless	10006 · Tri-Counties Bank-Operations	
	Bill	9938949562	07/29/2023		66001 · Phone / Internet Expense	-723.28
TOTAL						-723.28
	Bill Pmt -Check	2589	07/24/2023	Oasis Air & Solar	10006 · Tri-Counties Bank-Operations	
	Bill	F-8177	07/17/2023		65100 · Building Maintenance	-534.00
TOTAL						-534.00
	Bill Pmt -Check	2590	07/24/2023	PG&E (3387844223-6)	10006 · Tri-Counties Bank-Operations	
	Bill	3387844223-6 Jul 23	07/17/2023	Groundwater Banking, JPA:West Enos Recharge	61300 · SW Pumping Expense	-60.44
TOTAL						-60.44
Total AP to be ratified						-180,072.23
	Bill Pmt -Check	2591	08/09/2023	ACE HARDWARE	10006 · Tri-Counties Bank-Operations	
	Bill	63143	07/17/2023		61650 · Operating Supplies	-133.19
TOTAL						-133.19
	Bill Pmt -Check	2592	08/09/2023	ACWA - JPIA (Benefits)	10006 · Tri-Counties Bank-Operations	
	Bill	0700208	08/01/2023		20035 · Benefit Liabilities	-15,341.02
TOTAL						-15,341.02
	Bill Pmt -Check	2593	08/09/2023	ACWA JPIA (W/C,Auto,GL,Prop)	10006 · Tri-Counties Bank-Operations	
	Bill	2023-07-21	07/21/2023		41000 · Other Income	-1,768.00
TOTAL						-1,768.00
	Bill Pmt -Check	2594	08/09/2023	AE-COM Engineering Inc	10006 · Tri-Counties Bank-Operations	
	Bill	2000787758	08/07/2023	RRBWSD:SGMA	63004 · Engineering Services	-9,565.76
TOTAL						-9,565.76
	Bill Pmt -Check	2595	08/09/2023	All Automatic Handleys Automotive	10006 · Tri-Counties Bank-Operations	
	Bill	12919	07/17/2023		65001 · Equip. Maint. & Repair	-988.29
TOTAL						-988.29
	Bill Pmt -Check	2596	08/09/2023	Avid Water	10006 · Tri-Counties Bank-Operations	
	Bill	0423124-IN	07/25/2023		61650 · Operating Supplies	-63.45
	Bill	0423190-IN	07/26/2023		61650 · Operating Supplies	-41.14
	Bill	0421051-IN	07/26/2023		61650 · Operating Supplies	-10.19
TOTAL						-114.78
	Bill Pmt -Check	2597	08/09/2023	Barnes Welding Supply	10006 · Tri-Counties Bank-Operations	
	Bill	63222927	07/27/2023	RRBWSD:Onyx Ranch	61650 · Operating Supplies	-493.30
	Bill	91625800	07/31/2023	RRBWSD:Onyx Ranch	61500 · Equipment Rental Expense	-42.81
TOTAL						-536.11
	Bill Pmt -Check	2598	08/09/2023	Barry Watts	10006 · Tri-Counties Bank-Operations	
	Bill	July 2023	07/25/2023		62007 · Directors' Fees	-201.31

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Type	Num	Date	Name	Account	Paid Amount
TOTAL					-201.31
Bill Pmt -Check	2599	08/09/2023	Belden Blaine Raytis, LLP	10006 · Tri-Counties Bank-Operations	
Bill	21013	08/02/2023	RRBWSD:CVC Litigation	63000 · Legal Services	-416.41
Bill	21012	08/02/2023	RRBWSD:Onyx Ranch	63000 · Legal Services	-13,985.00
Bill	21011	08/02/2023	RRBWSD:SGMA	63000 · Legal Services	-9,191.25
			RRBWSD:Onyx Ranch	63000 · Legal Services	-641.25
			James Water Bank Authority	63000 · Legal Services	-1,140.00
				63000 · Legal Services	-9,547.50
TOTAL					-34,921.41
Bill Pmt -Check	2600	08/09/2023	BHK Accountancy Corporation	10006 · Tri-Counties Bank-Operations	
Bill	148062	08/01/2023		63002 · Audit and Accounting Services	-7,600.00
TOTAL					-7,600.00
Bill Pmt -Check	2601	08/09/2023	BUENA VISTA W.S.D.	10006 · Tri-Counties Bank-Operations	
Bill	7021 7/28/23	07/28/2023		61050 · Other Water Purch Expense	-9,550.05
TOTAL					-9,550.05
Bill Pmt -Check	2602	08/09/2023	Builders Mart	10006 · Tri-Counties Bank-Operations	
Bill	4612 July 23	08/01/2023	RRBWSD:Onyx Ranch	61650 · Operating Supplies	-1,312.97
TOTAL					-1,312.97
Bill Pmt -Check	2603	08/09/2023	Carquest	10006 · Tri-Counties Bank-Operations	
Bill	7430-534760	07/24/2023	RRBWSD:Onyx Ranch	65000 · Auto and Truck Maint. & Repair	-167.27
TOTAL					-167.27
Bill Pmt -Check	2604	08/09/2023	Carroll's Tire Warehouse	10006 · Tri-Counties Bank-Operations	
Bill	90548	07/28/2023		65000 · Auto and Truck Maint. & Repair	-3,404.70
TOTAL					-3,404.70
Bill Pmt -Check	2605	08/09/2023	Christensen, Inc.	10006 · Tri-Counties Bank-Operations	
Bill	264877CT	07/31/2023	RRBWSD:Onyx Ranch	61800 · Fuel	-634.46
				61800 · Fuel	-3,180.89
TOTAL					-3,815.35
Bill Pmt -Check	2606	08/09/2023	David Janes Company	10006 · Tri-Counties Bank-Operations	
Bill	0417371-IN	07/27/2023		61650 · Operating Supplies	-59.75
Bill	0418088-IN	08/04/2023		61650 · Operating Supplies	-274.86
TOTAL					-334.61
Bill Pmt -Check	2607	08/09/2023	Esparza Enterprises, Inc	10006 · Tri-Counties Bank-Operations	
Bill	115295	07/19/2023	RRBWSD:Onyx Ranch	63007 · Other Contracted Services	-4,620.10
Bill	115446	07/26/2023	RRBWSD:Onyx Ranch	63007 · Other Contracted Services	-4,759.34
Bill	115445	07/26/2023	RRBWSD:Onyx Ranch	63007 · Other Contracted Services	-720.00
Bill	115652	08/02/2023	RRBWSD:Onyx Ranch	63007 · Other Contracted Services	-4,448.82
Bill	115653	08/02/2023	RRBWSD:Onyx Ranch	63007 · Other Contracted Services	-240.00
TOTAL					-14,788.26
Bill Pmt -Check	2608	08/09/2023	Foster & Foster, Inc.	10006 · Tri-Counties Bank-Operations	
Bill	27517	07/27/2023		63002 · Audit and Accounting Services	-11,500.00

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Type	Num	Date	Name	Account	Paid Amount
TOTAL					-11,500.00
Bill Pmt -Check	2609	08/09/2023	G D Jones Services	10006 · Tri-Counties Bank-Operations	
Bill	1653	07/07/2023	RRBWSD:Onyx Ranch	65100 · Building Maintenance	-3,450.00
Bill	1671	07/27/2023	RRBWSD:Onyx Ranch	65100 · Building Maintenance	-350.00
TOTAL					-3,800.00
Bill Pmt -Check	2610	08/09/2023	Gary Unruh	10006 · Tri-Counties Bank-Operations	
Bill	July 2023	07/27/2023		62007 · Directors' Fees	-747.42
TOTAL					-747.42
Bill Pmt -Check	2611	08/09/2023	Hafenfeld Ranch, LLC	10006 · Tri-Counties Bank-Operations	
Bill	0010	07/19/2023	RRBWSD:Onyx Ranch	63007 · Other Contracted Services	-11,790.00
			RRBWSD:Onyx Ranch	63007 · Other Contracted Services	-14,905.00
TOTAL					-26,695.00
Bill Pmt -Check	2612	08/09/2023	Jason Selvidge	10006 · Tri-Counties Bank-Operations	
Bill	July 2023	07/25/2023		62007 · Directors' Fees	-250.83
TOTAL					-250.83
Bill Pmt -Check	2613	08/09/2023	Jeffries Bros., Inc.	10006 · Tri-Counties Bank-Operations	
Bill	131524	07/01/2023	Groundwater Banking, JPA:West Enos Recharge	61800 · Fuel	-500.00
Bill	131526	07/01/2023	Grimmway Farms-Customer:Grimmway Pilot Projec	61800 · Fuel	-250.00
Bill	131527	07/01/2023	Grimmway Farms-Customer:Grimmway Pilot Projec	61800 · Fuel	-250.00
Bill	131525	07/01/2023	Groundwater Banking, JPA:West Enos Recharge	61800 · Fuel	-500.00
Bill	131552	07/17/2023	Grimmway Farms-Customer:Grimmway Pilot Projec	61800 · Fuel	-1,386.24
Bill	131701	07/19/2023	Grimmway Farms-Customer:Grimmway Pilot Projec	61800 · Fuel	-1,599.50
Bill	131882	07/21/2023	Groundwater Banking, JPA:West Enos Recharge	61800 · Fuel	-1,267.51
Bill	131881	07/21/2023	Grimmway Farms-Customer:Grimmway Pilot Projec	61800 · Fuel	-1,365.85
Bill	131925	07/24/2023	Groundwater Banking, JPA:West Enos Recharge	61800 · Fuel	-1,530.87
Bill	131924	07/24/2023	Grimmway Farms-Customer:Grimmway Pilot Projec	61800 · Fuel	-2,101.18
Bill	131820	07/25/2023	Groundwater Banking, JPA:West Enos Recharge	61800 · Fuel	-58.46
Bill	132087	07/26/2023	Grimmway Farms-Customer:Grimmway Pilot Projec	61800 · Fuel	-1,219.38
Bill	132088	07/26/2023	Groundwater Banking, JPA:West Enos Recharge	61800 · Fuel	-1,457.22
Bill	131901	07/26/2023	Groundwater Banking, JPA:West Enos Recharge	61800 · Fuel	-58.46
Bill	132241	07/29/2023	Groundwater Banking, JPA:West Enos Recharge	61800 · Fuel	-1,875.83
Bill	132240	07/29/2023	Grimmway Farms-Customer:Grimmway Pilot Projec	61800 · Fuel	-2,162.57
Bill	132479	07/31/2023	Grimmway Farms-Customer:Grimmway Pilot Projec	61800 · Fuel	-1,857.32
Bill	132480	07/31/2023	Groundwater Banking, JPA:West Enos Recharge	61800 · Fuel	-1,534.31
Bill	130228	07/31/2023		60200 · Licenses, Permits and Fees	-20.44
Bill	132576	07/31/2023		60200 · Licenses, Permits and Fees	-103.19
Bill	131528	08/01/2023	Grimmway Farms-Customer:Grimmway Pilot Projec	61800 · Fuel	-250.00
Bill	132521	08/01/2023	Groundwater Banking, JPA:West Enos Recharge	61800 · Fuel	-116.91
Bill	132672	08/02/2023	Groundwater Banking, JPA:West Enos Recharge	61800 · Fuel	-1,372.77
Bill	132896	08/04/2023	Groundwater Banking, JPA:West Enos Recharge	61800 · Fuel	-1,445.59
Bill	132800	08/07/2023	Groundwater Banking, JPA:West Enos Recharge	61800 · Fuel	-116.91
TOTAL					-24,400.51
Bill Pmt -Check	2614	08/09/2023	JSC Agricultural Supply	10006 · Tri-Counties Bank-Operations	
Bill	340750	07/27/2023	RRBWSD:Onyx Ranch	70000 · Capital Water Structure Expense	-2,468.10
Bill	340958	08/02/2023	RRBWSD:Onyx Ranch	70001 · Capital Building Expense	-148.85
TOTAL					-2,616.95
Bill Pmt -Check	2615	08/09/2023	Kern River Valley Chamber of Commerce	10006 · Tri-Counties Bank-Operations	

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Type	Num	Date	Name	Account	Paid Amount
Bill	4658	08/01/2023	RRBWSD:Onyx Ranch	62005 · Dues and Membership	-100.00
TOTAL					-100.00
Bill Pmt -Check	2616	08/09/2023	L&M Lumber	10006 · Tri-Counties Bank-Operations	
Bill	364136	07/05/2023	RRBWSD:Onyx Ranch	61650 · Operating Supplies	-291.73
Bill	364263	07/08/2023	RRBWSD:Onyx Ranch	61650 · Operating Supplies	-628.43
TOTAL					-920.16
Bill Pmt -Check	2617	08/09/2023	Martinez Gardening Service	10006 · Tri-Counties Bank-Operations	
Bill	343681	07/20/2023		65100 · Building Maintenance	-200.00
TOTAL					-200.00
Bill Pmt -Check	2618	08/09/2023	Megan Misuraca-Expense Acct	10006 · Tri-Counties Bank-Operations	
Bill	20230727	07/27/2023		61800 · Fuel	-39.69
TOTAL					-39.69
Bill Pmt -Check	2619	08/09/2023	Mission Uniform Service	10006 · Tri-Counties Bank-Operations	
Bill	519741596	07/28/2023		63500 · Janitorial Expense	-92.51
TOTAL					-92.51
Bill Pmt -Check	2620	08/09/2023	Mitch Millwee	10006 · Tri-Counties Bank-Operations	
Bill	July 2023	07/25/2023		62007 · Directors' Fees	-207.86
TOTAL					-207.86
Bill Pmt -Check	2621	08/09/2023	Nelms Surveying Inc	10006 · Tri-Counties Bank-Operations	
Bill	213030-17	07/12/2023	RRBWSD:Onyx Ranch	63004 · Engineering Services	-702.50
TOTAL					-702.50
Bill Pmt -Check	2622	08/09/2023	Nicholas Construction Inc.	10006 · Tri-Counties Bank-Operations	
Bill	1583	07/19/2023	Groundwater Banking, JPA:West Enos Recharge	63007 · Other Contracted Services	-8,901.54
TOTAL					-8,901.54
Bill Pmt -Check	2623	08/09/2023	Office1	10006 · Tri-Counties Bank-Operations	
Bill	AR993077	07/31/2023		62001 · Printing & Reproduction	-159.20
TOTAL					-159.20
Bill Pmt -Check	2624	08/09/2023	Performance Truck & Diesel	10006 · Tri-Counties Bank-Operations	
Bill	28494	08/07/2023		65000 · Auto and Truck Maint. & Repair	-1,622.46
TOTAL					-1,622.46
Bill Pmt -Check	2625	08/09/2023	PG&E (0439653883-9)	10006 · Tri-Counties Bank-Operations	
Bill	0439653883-9 Aug 23	08/02/2023	RRBWSD-IRWD:Strand Ranch	61300 · SW Pumping Expense	-322.64
TOTAL					-322.64
Bill Pmt -Check	2626	08/09/2023	PG&E (1091941045-5)	10006 · Tri-Counties Bank-Operations	
Bill	1091941045-5 Aug 23	08/02/2023		61300 · SW Pumping Expense	-59,099.72
TOTAL					-59,099.72
Bill Pmt -Check	2627	08/09/2023	PG&E (1338232537-4)	10006 · Tri-Counties Bank-Operations	

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Type	Num	Date	Name	Account	Paid Amount
Bill	1338232537-4 Aug 23	08/02/2023	RRBWSD-IRWD:SUP Wells	61301 · GW Well Pumping Expense	-2,114.52
TOTAL					-2,114.52
Bill Pmt -Check	2628	08/09/2023	PG&E (3923107207-3)	10006 · Tri-Counties Bank-Operations	
Bill	3923107207-3 Aug 23	08/02/2023	RRBWSD-IRWD:Strand Ranch	61301 · GW Well Pumping Expense	-1,510.68
TOTAL					-1,510.68
Bill Pmt -Check	2629	08/09/2023	PG&E (5592643715-7)	10006 · Tri-Counties Bank-Operations	
Bill	55592643715-7 Aug 23	08/02/2023	RRBWSD:WB Wells	61301 · GW Well Pumping Expense	-129.00
TOTAL					-129.00
Bill Pmt -Check	2630	08/09/2023	PG&E (5919499601-9)	10006 · Tri-Counties Bank-Operations	
Bill	5919499601-9 Aug 23	08/02/2023	RRBWSD:Enns Wells	61301 · GW Well Pumping Expense	-203.31
TOTAL					-203.31
Bill Pmt -Check	2631	08/09/2023	PG&E (7649745985-9)	10006 · Tri-Counties Bank-Operations	
Bill	7649745985-9 Aug 23	08/03/2023		66000 · Utilities	-9.86
TOTAL					-9.86
Bill Pmt -Check	2632	08/09/2023	PG&E (8190181094-5)	10006 · Tri-Counties Bank-Operations	
Bill	8190181094-5 Aug 23	08/02/2023		61301 · GW Well Pumping Expense	-139.84
TOTAL					-139.84
Bill Pmt -Check	2633	08/09/2023	Roy Pierucci	10006 · Tri-Counties Bank-Operations	
Bill	July 2023	07/27/2023		62007 · Directors' Fees	-759.21
TOTAL					-759.21
Bill Pmt -Check	2634	08/09/2023	South Valley Water Resources Authority	10006 · Tri-Counties Bank-Operations	
Bill	SVWRA 23-06	07/31/2023		62005 · Dues and Membership	-8,970.00
TOTAL					-8,970.00
Bill Pmt -Check	2635	08/09/2023	Southern California Edison (700102049704)	10006 · Tri-Counties Bank-Operations	
Bill	700102049704 July 23	07/31/2023	RRBWSD:Onyx Ranch	66000 · Utilities	-325.82
TOTAL					-325.82
Bill Pmt -Check	2636	08/09/2023	Southern California Edison (700511405161)	10006 · Tri-Counties Bank-Operations	
Bill	700511405161 Jul 23	08/01/2023	RRBWSD:Onyx Ranch	66000 · Utilities	-100.77
TOTAL					-100.77
Bill Pmt -Check	2637	08/09/2023	Spaletta Law	10006 · Tri-Counties Bank-Operations	
Bill	12107	04/18/2023	Spaletta Law	20000 · Accounts Payable	0.00
Bill	12196	07/31/2023	RRBWSD:Onyx Ranch	63000 · Legal Services	-750.00
Bill	12197	07/31/2023	RRBWSD:Onyx Ranch	63000 · Legal Services	-1,200.00
TOTAL					-1,950.00
Bill Pmt -Check	2638	08/09/2023	Spectrum Business	10006 · Tri-Counties Bank-Operations	
Bill	1355119080123	08/01/2023		66001 · Phone / Internet Expense	-149.98
TOTAL					-149.98
Bill Pmt -Check	2639	08/09/2023	Standard Insurance	10006 · Tri-Counties Bank-Operations	

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Type	Num	Date	Name	Account	Paid Amount
Bill	006492990038 Aug 23	07/17/2023	RRBWSD:Onyx Ranch	20035 · Benefit Liabilities	-62.19
				20035 · Benefit Liabilities	-645.25
TOTAL					-707.44
Bill Pmt -Check	2640	08/09/2023	Sterling Enterprises	10006 · Tri-Counties Bank-Operations	
Bill	7-17-23 Kern River	07/17/2023		63007 · Other Contracted Services	-2,148.75
Bill	7-24-23 Kern River	07/31/2023		63007 · Other Contracted Services	-699.12
TOTAL					-2,847.87
Bill Pmt -Check	2641	08/09/2023	SUPERIOR SANITATION	10006 · Tri-Counties Bank-Operations	
Bill	38100330	08/01/2023		66000 · Utilities	-231.63
TOTAL					-231.63
Bill Pmt -Check	2642	08/09/2023	Thomas Harder & Co., Inc.	10006 · Tri-Counties Bank-Operations	
Bill	23-054-136.2	08/04/2023	RRBWSD:McCasin/Bowling Recovery	63006 · Hydrogeology Consultants	-615.00
Bill	23-054-133.6	08/04/2023	JOC	63006 · Hydrogeology Consultants	-6,101.25
TOTAL					-6,716.25
Bill Pmt -Check	2643	08/09/2023	Thomas Refuse Service, Inc	10006 · Tri-Counties Bank-Operations	
Bill	38101842	08/01/2023	RRBWSD:Onyx Ranch	66000 · Utilities	-81.03
Bill	38101620	08/01/2023	RRBWSD:Onyx Ranch	66000 · Utilities	-236.67
TOTAL					-317.70
Bill Pmt -Check	2644	08/09/2023	Tri Counties Bank	10006 · Tri-Counties Bank-Operations	
Bill	3913 Jul 2023	08/26/2023		62000 · General Office Expense	-21.73
				62000 · General Office Expense	-92.49
				62000 · General Office Expense	-111.29
				62000 · General Office Expense	-156.75
				62000 · General Office Expense	-17.69
				62000 · General Office Expense	-500.64
				65000 · Auto and Truck Maint. & Repair	-56.04
				62000 · General Office Expense	-35.94
				66011 · Technology Fees & Subscriptions	-171.25
				66011 · Technology Fees & Subscriptions	-81.73
				65000 · Auto and Truck Maint. & Repair	-14.94
				61650 · Operating Supplies	-1,040.43
				66011 · Technology Fees & Subscriptions	-2.79
			RRBWSD:Onyx Ranch	62000 · General Office Expense	-6.87
				61650 · Operating Supplies	-28.43
				62000 · General Office Expense	-30.32
			RRBWSD:Onyx Ranch	61650 · Operating Supplies	-496.69
			RRBWSD:Onyx Ranch	61650 · Operating Supplies	-60.65
				65001 · Equip. Maint. & Repair	-39.92
			Groundwater Banking, JPA:West Enos Recharge	61650 · Operating Supplies	-404.37
			Groundwater Banking, JPA:West Enos Recharge	61650 · Operating Supplies	-44.47
			RRBWSD:Onyx Ranch	61650 · Operating Supplies	-188.34
			RRBWSD:Onyx Ranch	61650 · Operating Supplies	-812.62
			RRBWSD:Onyx Ranch	62000 · General Office Expense	-41.15
			RRBWSD:Onyx Ranch	61650 · Operating Supplies	-254.05
				61650 · Operating Supplies	-21.38
TOTAL					-4,732.97
Bill Pmt -Check	2645	08/09/2023	United Rentals	10006 · Tri-Counties Bank-Operations	
Bill	217254539-006	07/22/2023		61500 · Equipment Rental Expense	-2,956.31

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Type	Num	Date	Name	Account	Paid Amount
Bill	220648729-003	07/26/2023	RRBWS:Onyx Ranch	61500 · Equipment Rental Expense	-1,536.07
TOTAL					-4,492.38
Bill Pmt -Check	2646	08/09/2023	Workforce go!	10006 · Tri-Counties Bank-Operations	
Bill	INV-0028407	08/01/2023		60001 · Payroll Expense	-89.01
TOTAL					-89.01
Total AP Current					-283,420.31

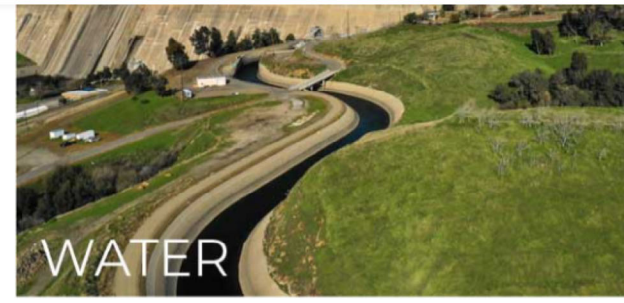
Total AP Current + Ratified	-463,492.54
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Rosedale- Rio Bravo WSD Revenue and Expenditures January through July 2023

	TOTAL			
	Jul 23	Jan - Jul 23	Budget	% of Budget
Ordinary Income/Expense				
Income				
40000 · Assesment Income	0.00	5,807,810.86	5,809,040.00	99.98%
40010 · Prior Year Assesment Income	0.00	167,970.00	18,000.00	933.17%
40503 · SW Pumping Reimbursement	0.00	0.00	50,000.00	0.0%
40506 · Groundwater Mitigation Income	0.00	280.15	100,000.00	0.28%
40507 · O & M Reimbursement Income	4,459.50	14,995.06	175,000.00	8.57%
40508 · Groundwater Banking Income	0.00	5,481,949.00	5,481,949.00	100.0%
40509 · Lease Income	1,210.00	31,776.00	70,000.00	45.39%
40510 · Groundwater Recovery Reimb.	0.00	739,290.56	6,250,000.00	11.83%
40511 · Non-Reoccurring Water Sale	0.00	0.00	3,250,000.00	0.0%
40600 · Interest Income	110,993.20	707,067.88	300,000.00	235.69%
41000 · Other Income	0.00	1,149.22	5,000.00	22.98%
41001 · Refunds and Credits	0.00	2,522.00	150,000.00	1.68%
41010 · Grant Income	400.00	2,049.93	1,600,000.00	0.13%
41050 · Resource Management Income	18,038.06	68,286.51	100,000.00	68.29%
Total Income	<u>135,100.76</u>	<u>13,025,147.17</u>	<u>23,358,989.00</u>	<u>55.76%</u>
Gross Profit	135,100.76	13,025,147.17	23,358,989.00	55.76%
Expense				
60000 · Wages and Salaries Expense	119,248.50	844,850.04	1,484,000.00	56.93%
60001 · Payroll Expense	2,794.41	17,591.77	33,000.00	53.31%
60005 · Benefits Health,Dent.Life.Vis.D	11,504.82	85,794.15	180,000.00	47.66%
60006 · Benefits- CalPers Retirement	46,104.59	155,837.25	210,000.00	74.21%
60007 · Workers Compensation Insurance	1,209.08	15,606.10	33,000.00	47.29%
60100 · Bank Service Charges	193.14	1,212.48	4,000.00	30.31%
60110 · Assesment Expense	0.00	0.00	125,000.00	0.0%
60200 · Licenses, Permits and Fees	212.11	43,789.85	10,000.00	437.9%
61000 · KCWA SWP Expense	0.00	4,171,924.00	3,477,791.00	119.96%
61001 · City of Bak. Basic Contract Exp	0.00	596,014.62	585,000.00	101.88%
61050 · Other Water Purch Expense	15,390.00	506,347.50	250,000.00	202.54%
61300 · SW Pumping Expense	19,192.20	88,241.84	200,000.00	44.12%
61301 · GW Well Pumping Expense	12,229.00	848,375.10	8,000,000.00	10.61%
61350 · Groundwater Mitigation Expense	0.00	3,891.00	50,000.00	7.78%
61400 · Third Party Project Operations	0.00	671,898.14	1,144,000.00	58.73%
61401 · Delta Conveyance Project Expens	0.00	757,720.00	757,720.00	100.0%
61450 · Regulatory Program Compliance	1,023.77	32,851.35	60,000.00	54.75%
61500 · Equipment Rental Expense	4,535.19	28,946.14	50,000.00	57.89%
61650 · Operating Supplies	2,965.57	17,762.56	30,000.00	59.21%
61655 · Water Quality Testing	0.00	11,425.04	50,000.00	22.85%
61660 · Property Lease Expense	35,802.00	71,604.00	61,200.00	117.0%
61800 · Fuel	39,644.78	117,835.20	90,000.00	130.93%
62000 · General Office Expense	378.75	9,598.99	25,000.00	38.4%
62001 · Printing & Reproduction	159.20	1,114.40	12,000.00	9.29%
62003 · Publications and Notices	0.00	4,439.50	2,000.00	221.98%
62005 · Dues and Membership	15,000.00	47,450.00	83,675.00	56.71%
62007 · Directors' Fees	2,166.63	17,878.12	35,000.00	51.08%
62008 · Educational Expenses	0.00	3,649.64	5,000.00	72.99%
62009 · Postage and Delivery	100.00	733.51	3,500.00	20.96%
63000 · Legal Services	32,347.32	194,431.11	500,000.00	38.89%
63002 · Audit and Accounting Services	11,500.00	23,500.00	40,000.00	58.75%

Rosedale- Rio Bravo WSD
Revenue and Expenditures
January through July 2023

	TOTAL			
	Jul 23	Jan - Jul 23	Budget	% of Budget
63004 · Engineering Services	16,192.34	50,986.53	50,000.00	101.97%
63005 · Environmental Consultants	8,800.00	33,250.00	50,000.00	66.5%
63006 · Hydrogeology Consultants	9,146.25	58,493.75	100,000.00	58.49%
63007 · Other Contracted Services	59,471.90	191,545.62	150,000.00	127.7%
63010 · GL/Property/Auto Insurance Prem	12,561.94	77,112.09	70,000.00	110.16%
63500 · Janitorial Expense	1,035.43	4,667.28	9,000.00	51.86%
64000 · Water Transaction Fees	0.00	13,473.00	50,000.00	26.95%
65000 · Auto and Truck Maint. & Repair	6,106.84	15,684.69	25,000.00	62.74%
65001 · Equip. Maint. & Repair	9,496.35	29,160.01	50,000.00	58.32%
65002 · Mileage Reimbursement Expense	0.00	120.52	500.00	24.1%
65100 · Building Maintenance	4,534.00	38,086.93	15,000.00	253.91%
65101 · Water Structure Maintenance	0.00	59,169.43	20,000.00	295.85%
65200 · Booster Pump Maintenance Exp.	0.00	0.00	20,000.00	0.0%
65201 · Well Maintenance Expense	320.00	60,974.40	100,000.00	60.97%
65500 · Weed Contol/Chemicals	0.00	45,177.70	100,000.00	45.18%
66000 · Utilities	1,315.15	10,260.82	14,000.00	73.29%
66001 · Phone / Internet Expense	921.84	7,720.06	16,000.00	48.25%
66011 · Technology Fees & Subscriptions	0.00	24,469.00	62,000.00	39.47%
67000 · Travel Expense	0.00	8,325.93	5,000.00	166.52%
68000 · Taxes - Property	0.00	76,806.38	200,000.00	38.4%
70000 · Capital Water Structure Expense	16,568.10	100,112.20	500,000.00	20.02%
70001 · Capital Building Expense	0.00	0.00	75,000.00	0.0%
70100 · Capital Booster Pump	0.00	0.00	50,000.00	0.0%
70101 · Capital Well Expenses	22,599.00	81,829.00	1,200,000.00	6.82%
70200 · Capital Engineering Consult Exp	56,917.50	56,917.50	250,000.00	22.77%
70201 · Capital Environmental Cons Exp.	0.00	0.00	50,000.00	0.0%
70500 · Capital - Auto and Truck Exp.	0.00	44,255.71	50,000.00	88.51%
70501 · Capital Equipment Expense	0.00	30,860.43	120,000.00	25.72%
70600 · Capital Office Equipment Expens	0.00	1,461.00	18,000.00	8.12%
70602 · Capital Land Expense	0.00	1,534,080.63	532,194.00	288.26%
70700 · Third Party Projects- Capital	0.00	851,000.00	4,833,000.00	17.61%
80001 · Prior Year Expense	0.00	566,494.12		
88004 · 2020 COP- Debt Service Expense	120,891.74	3,286,242.18	3,930,597.00	83.61%
88100 · COP Administration Expense	0.00	0.00	5,500.00	0.0%
Total Expense	720,579.44	16,751,050.31	30,311,677.00	55.26%
Net Income	-585,478.68	-3,725,903.14	-6,952,688.00	53.59%



BOARD MEETING

[Next Meeting Agenda](#)

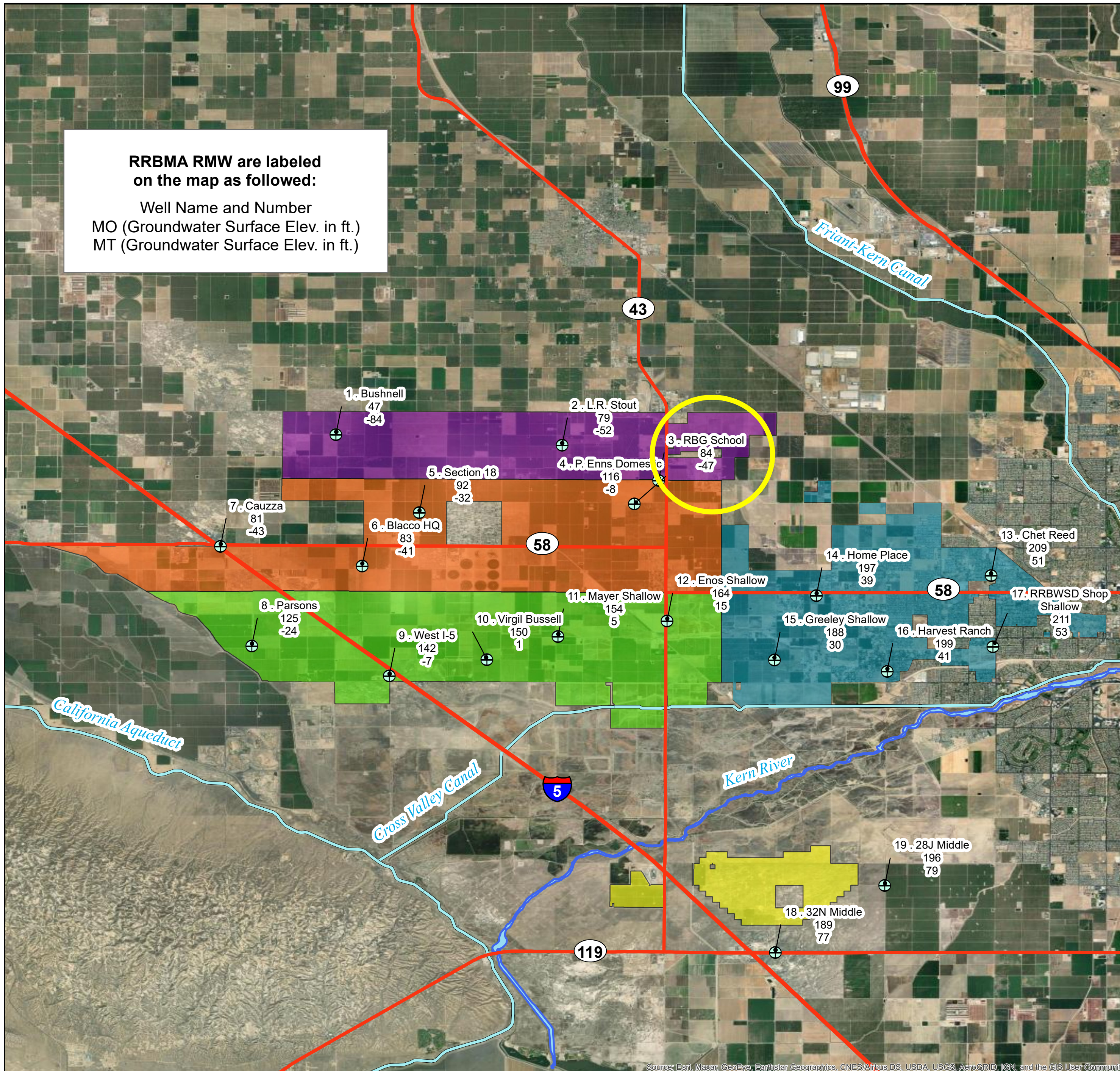
NEWS & UPDATES

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

[2023-2028 RRBWSD Strategic Plan](#)



RRBMA Monitoring Areas - RMW Water Level MOs and MTs



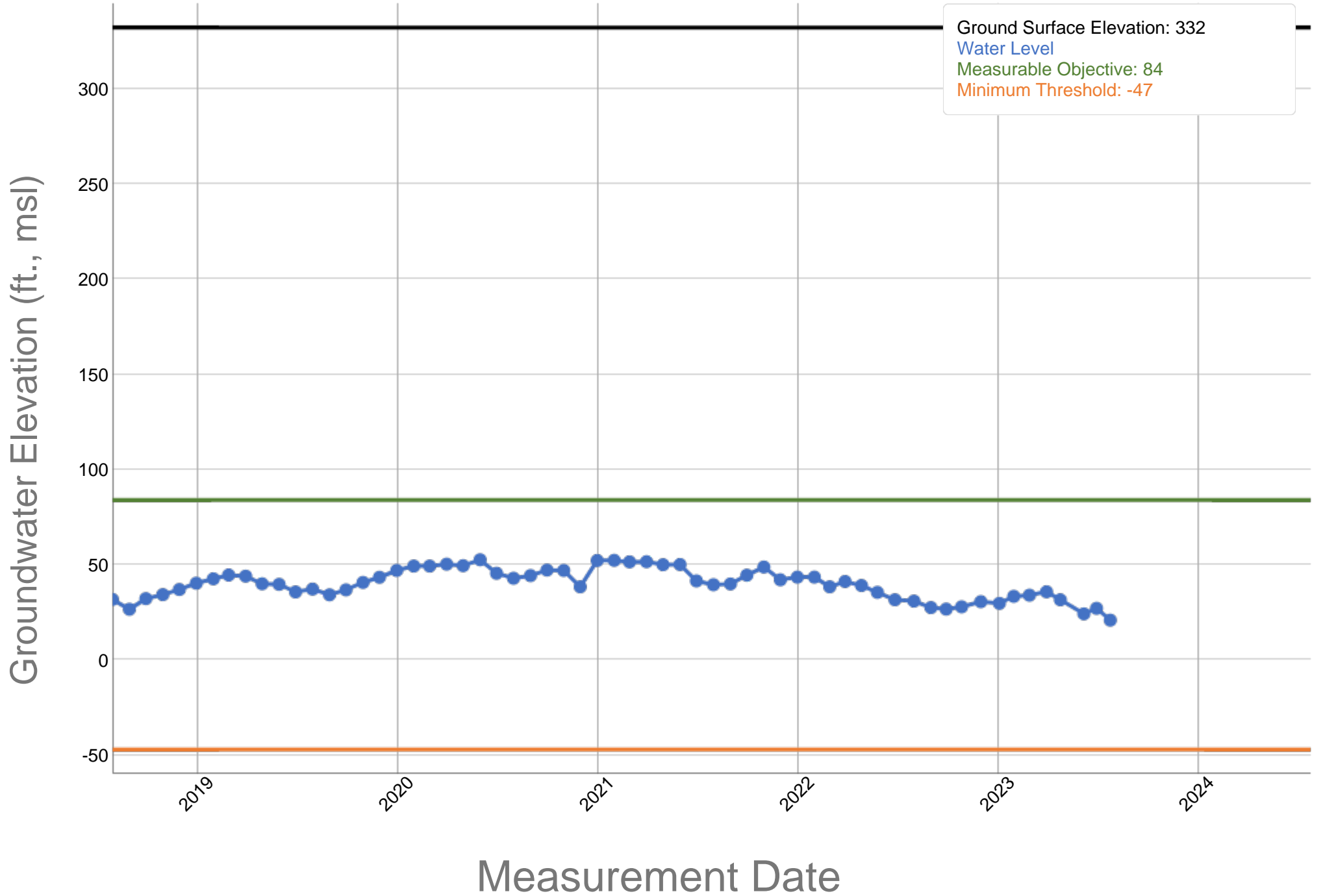
Legend

- ⊕ 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

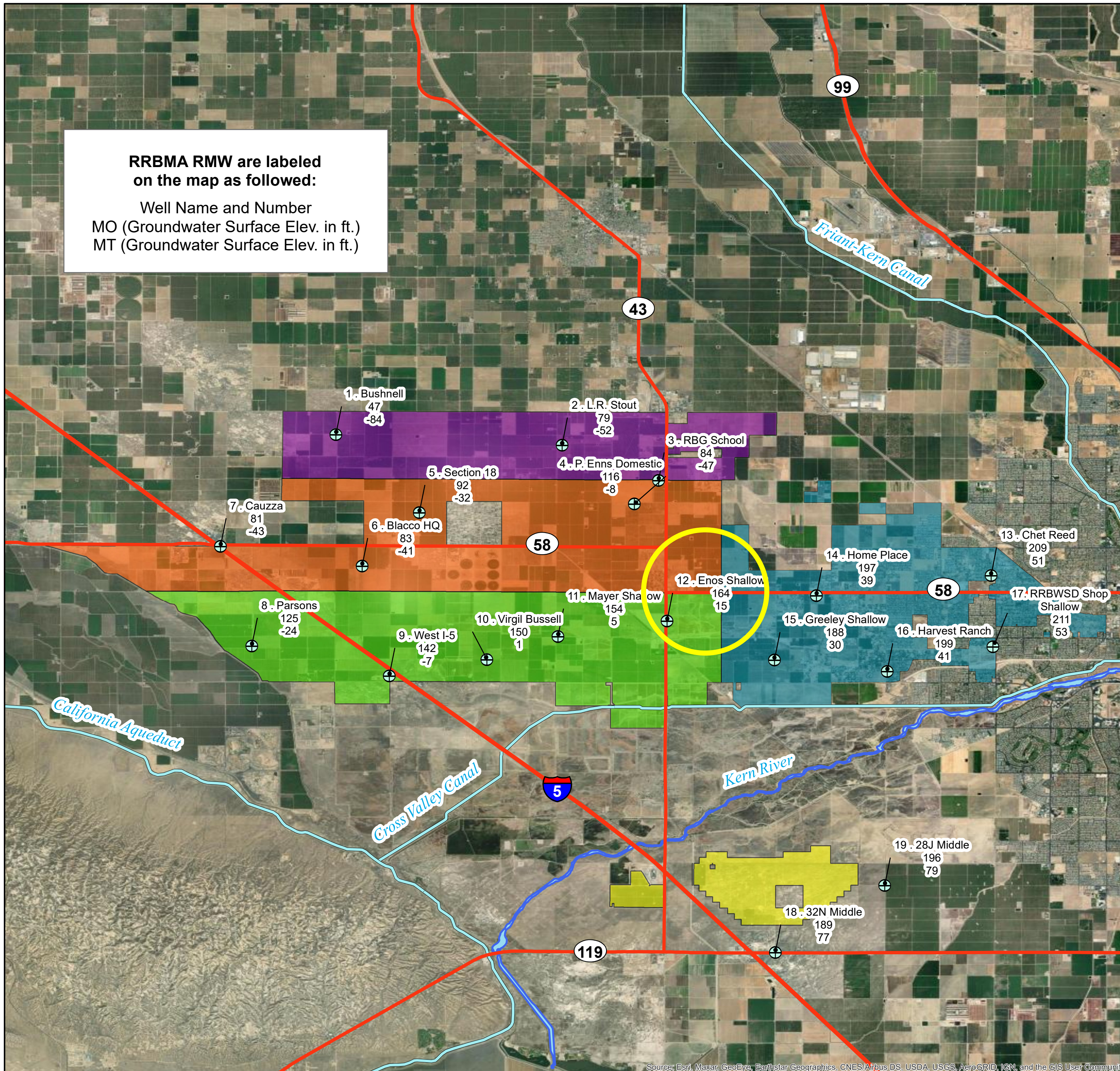
*RMW = Representative Monitoring Well
 MO = Measurable Objective
 MT = Minimum Threshold*



Rosedale-Rio Bravo GSA - RBG School - 354197N1192544W001



RRBMA Monitoring Areas - RMW Water Level MOs and MTs



Legend

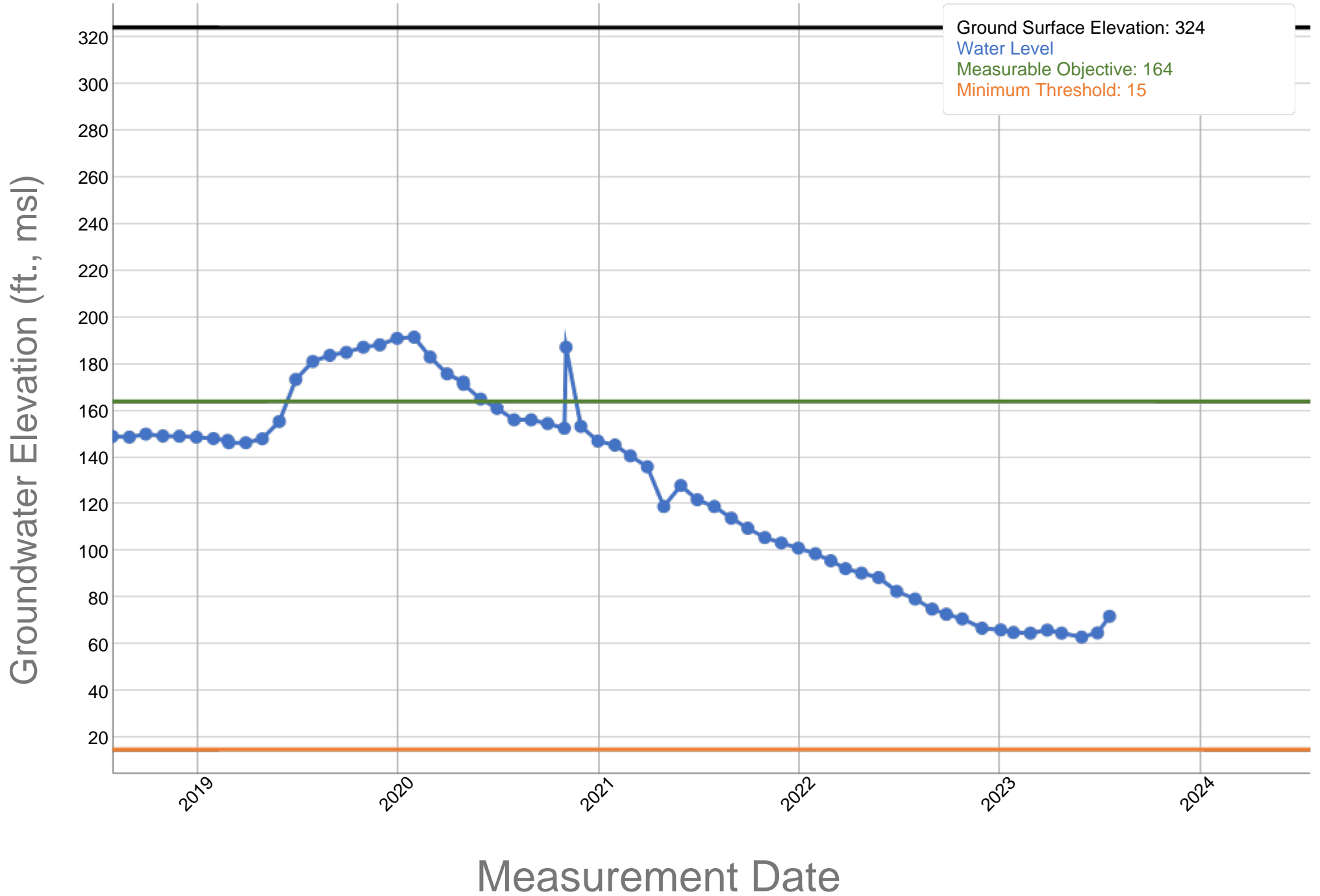
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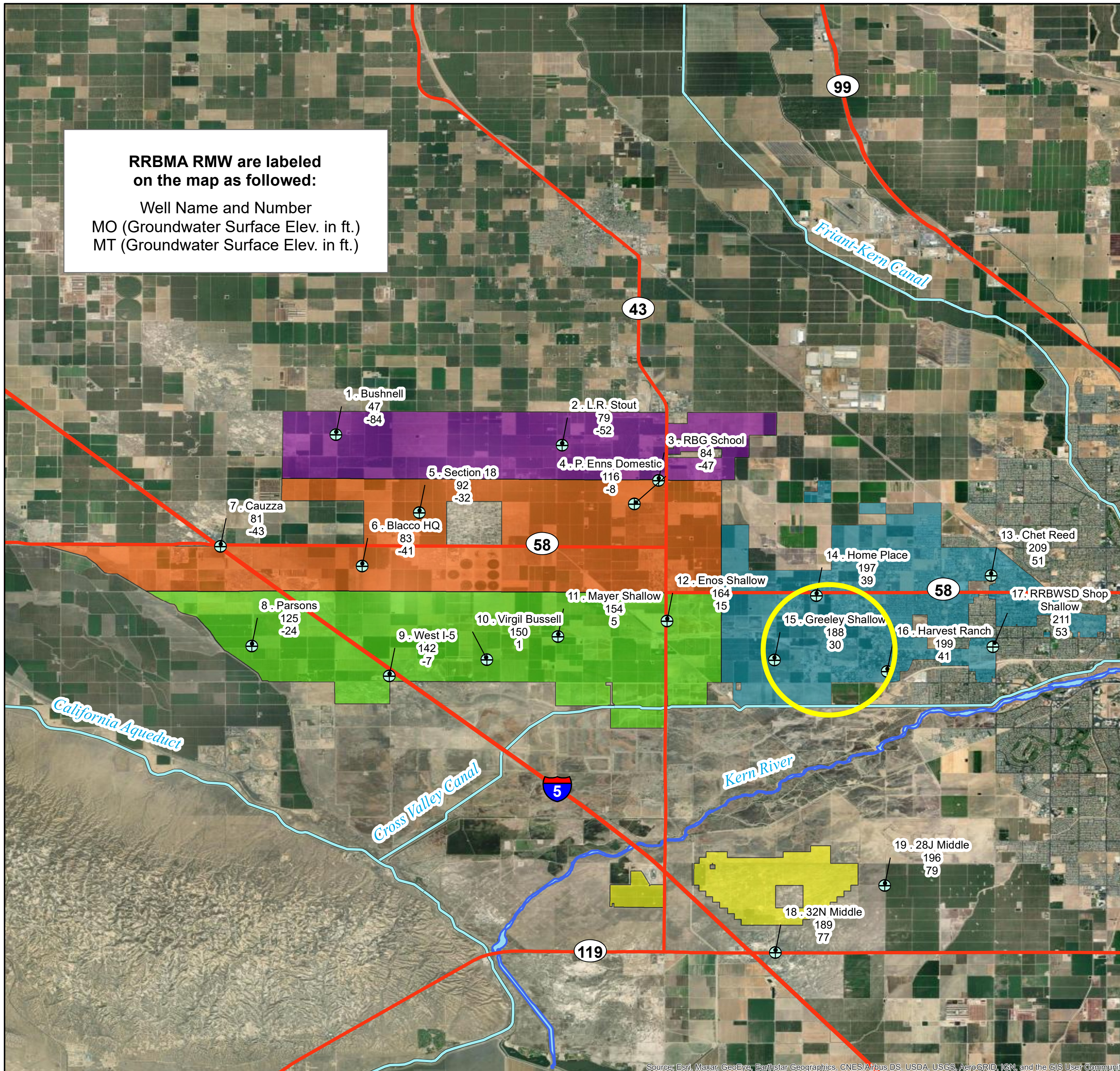


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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



RRBMA Monitoring Areas - RMW Water Level MOs and MTs



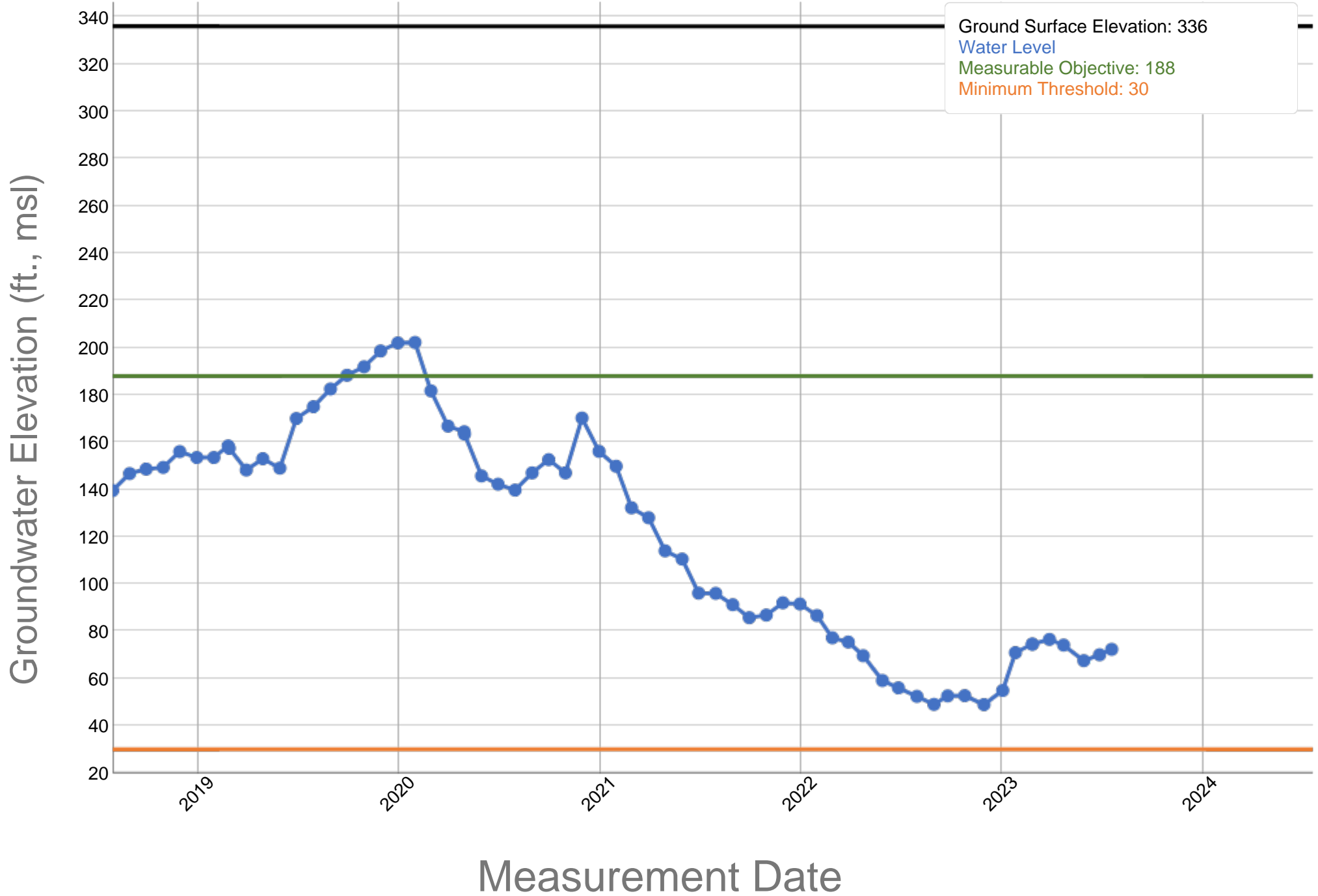
Legend

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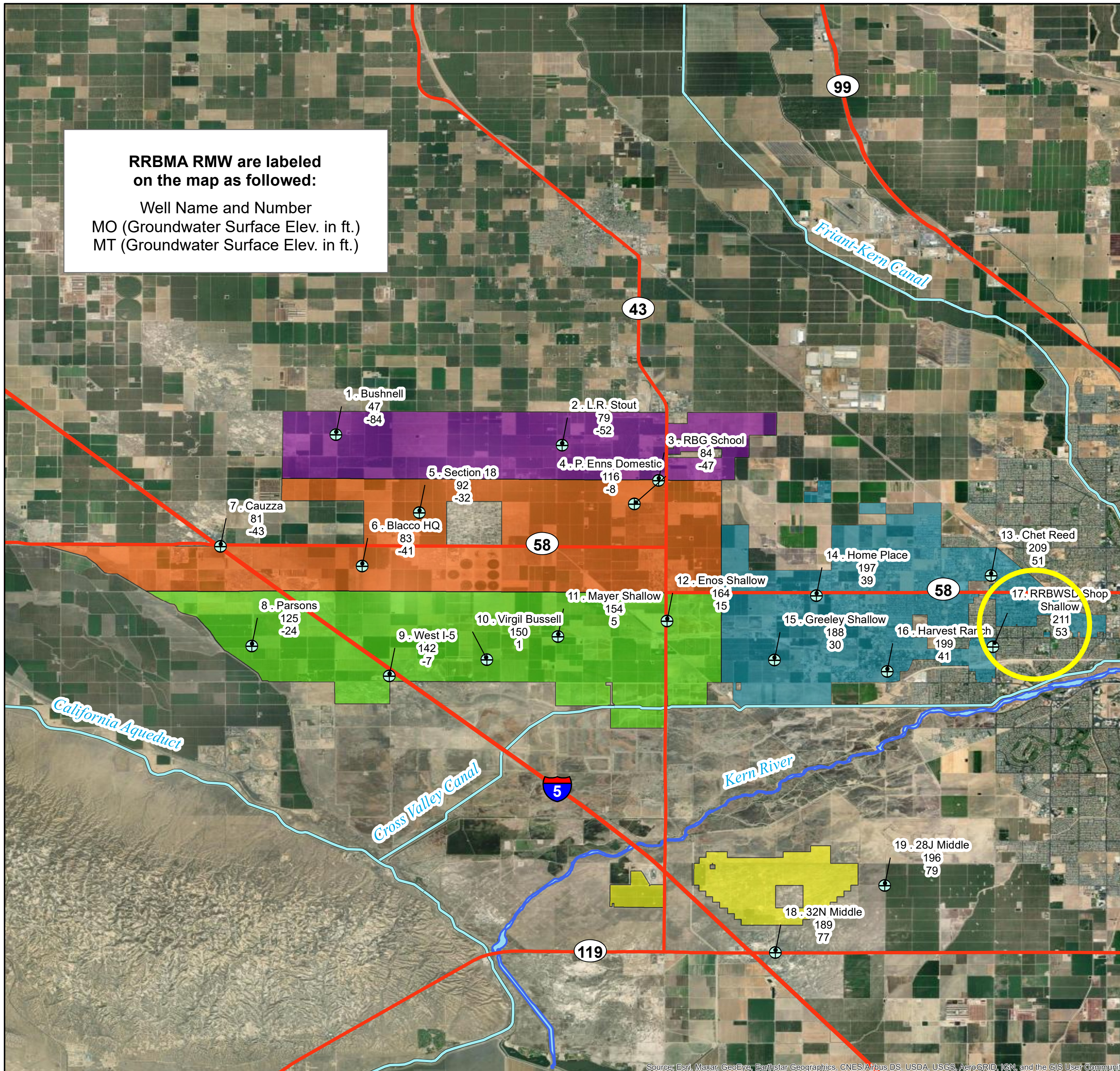
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Rosedale-Rio Bravo Water Storage District - 31H Greeley - 353618N1192169W001



RRBMA Monitoring Areas - RMW Water Level MOs and MTs



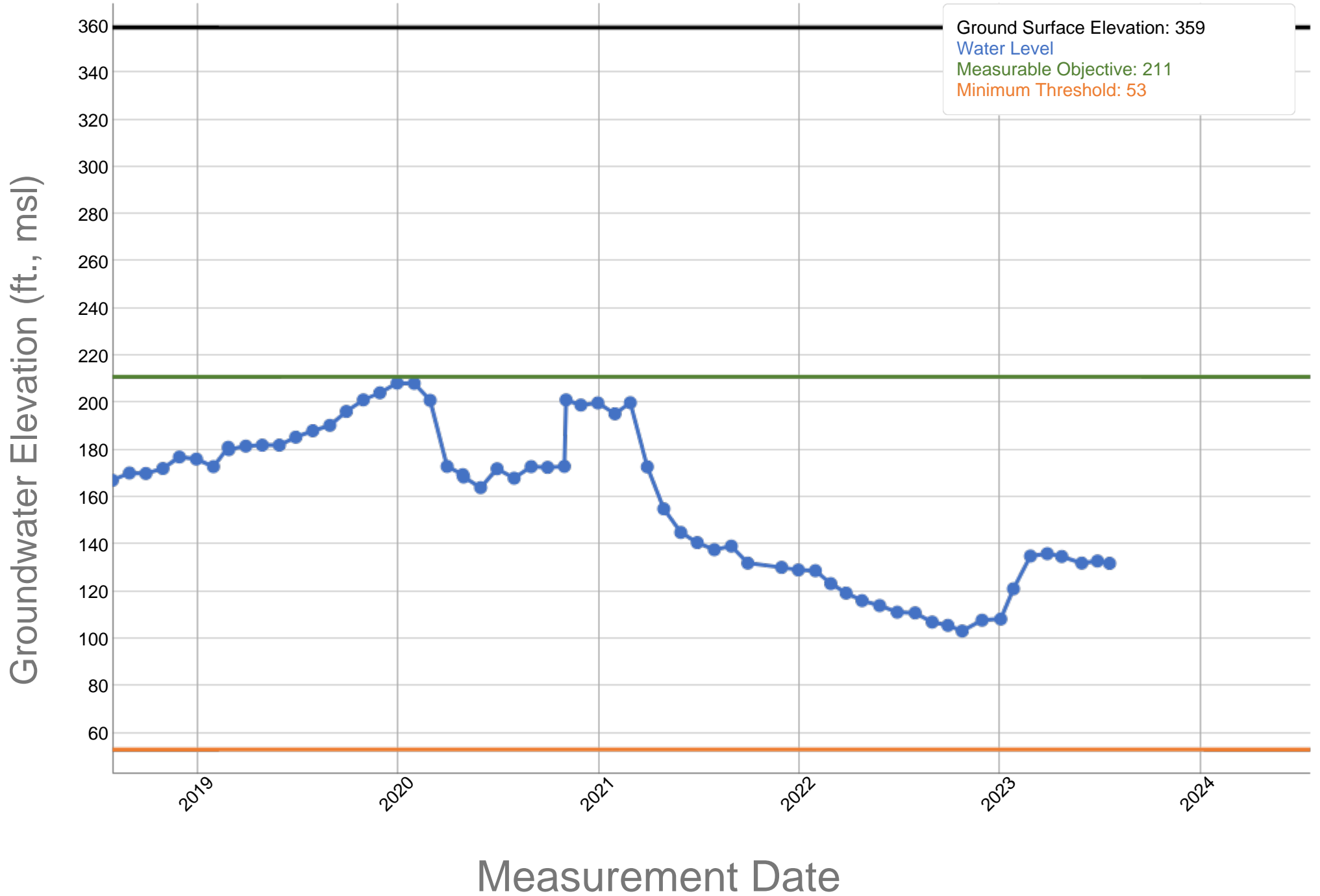
Legend

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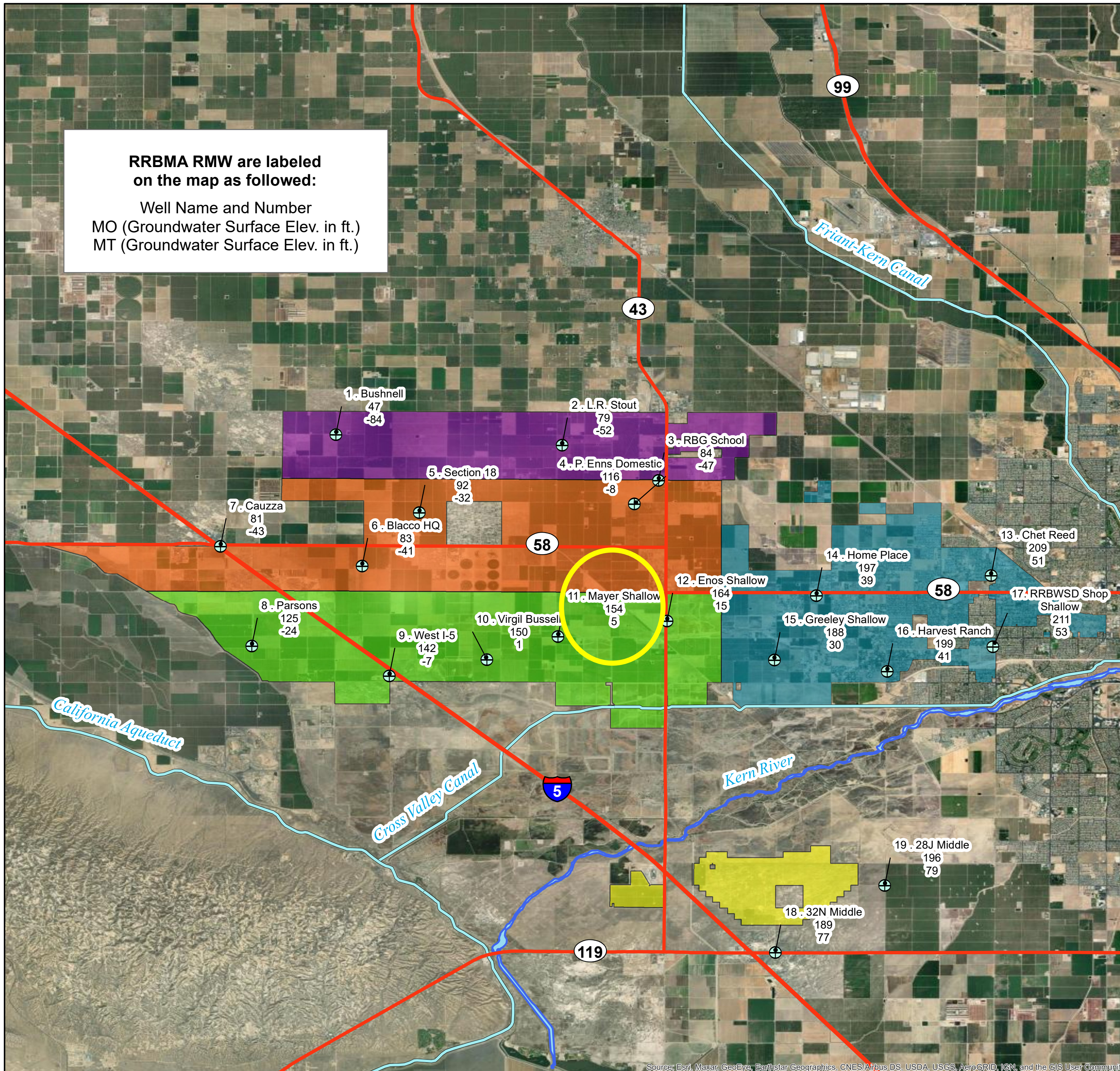
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Rosedale-Rio Bravo Water Storage District - 35H RRBWSD Shop - 353620N1191457W002



RRBMA Monitoring Areas - RMW Water Level MOs and MTs



Legend

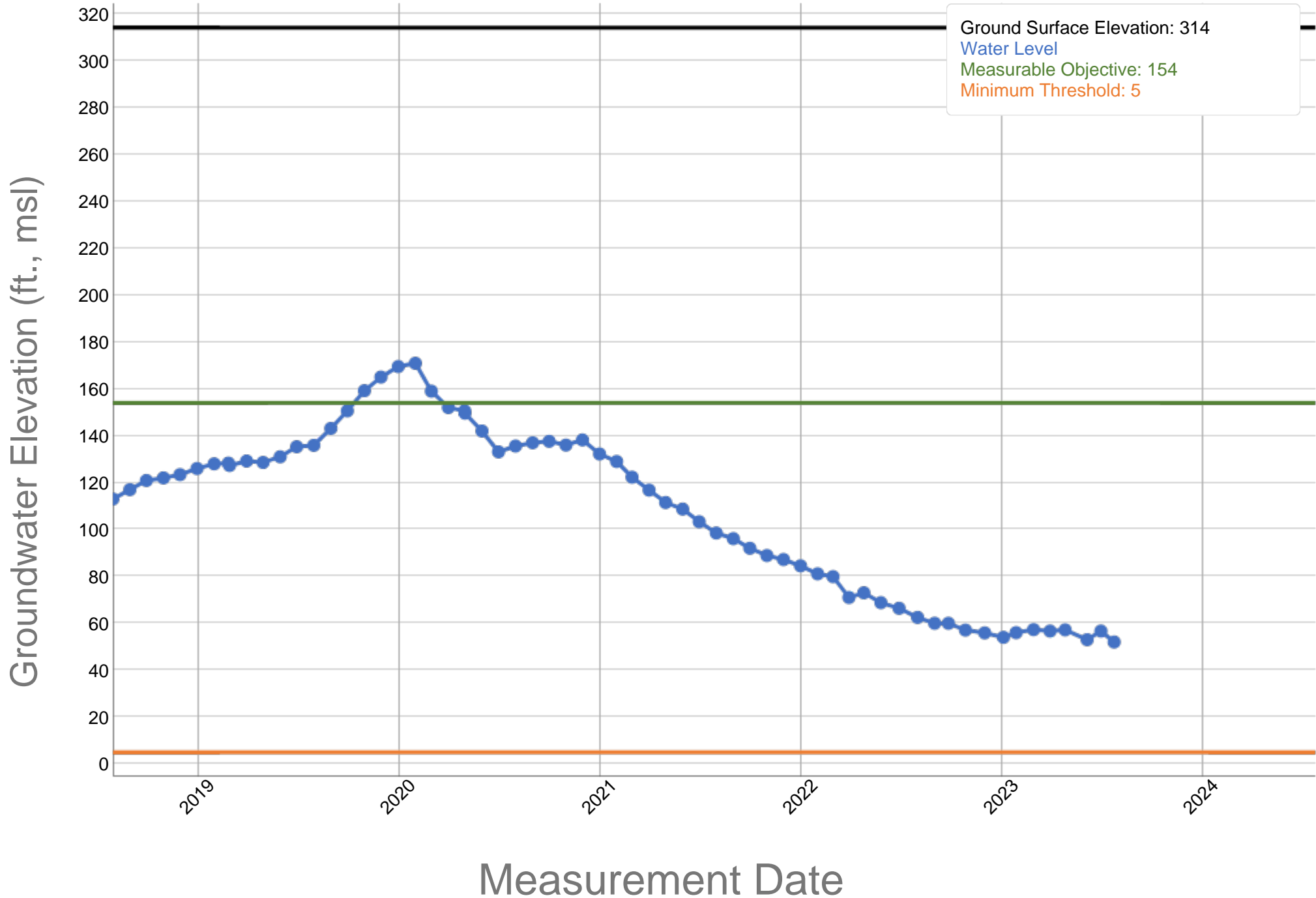
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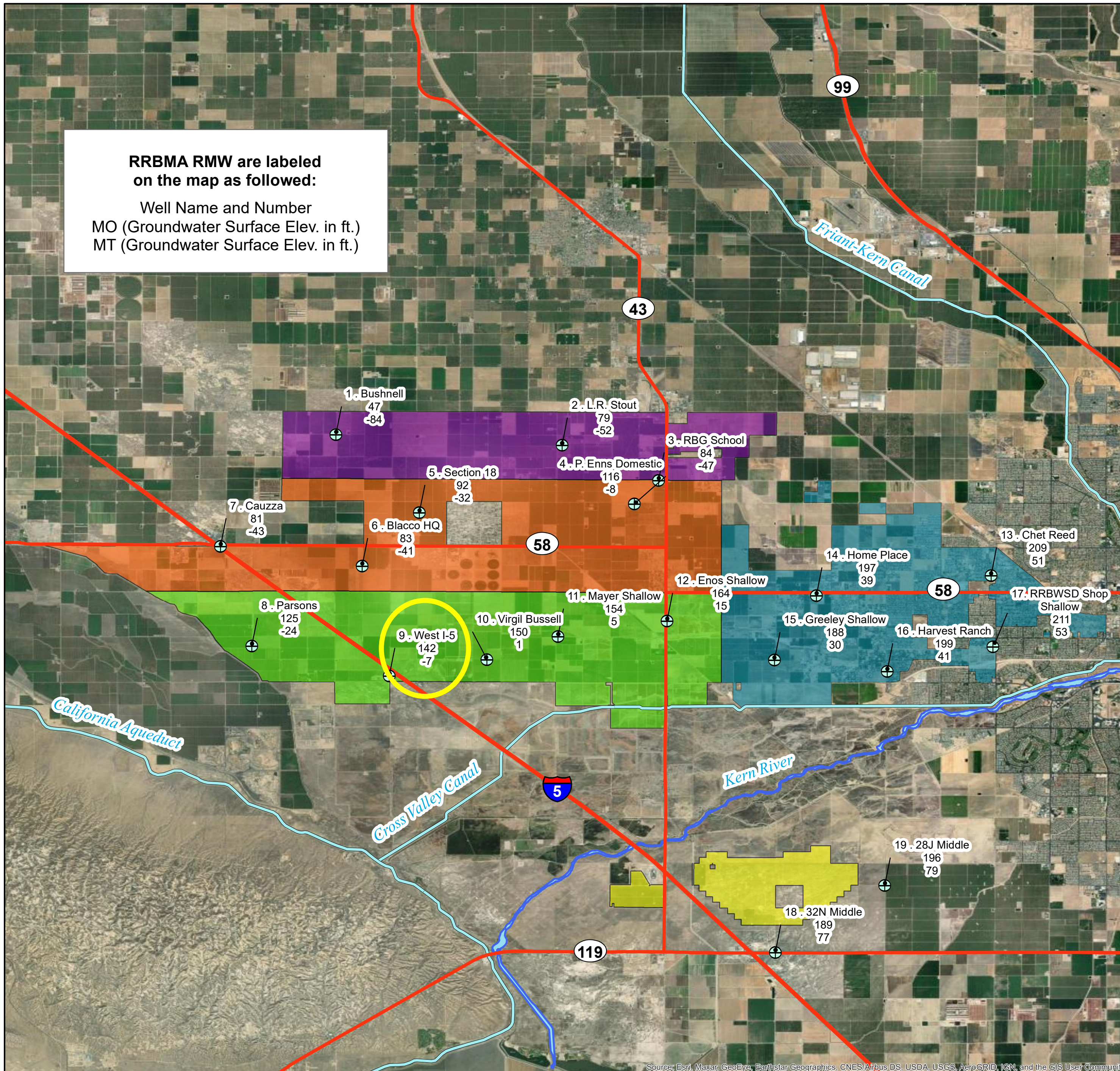


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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



RRBMA Monitoring Areas - RMW Water Level MOs and MTs



Legend

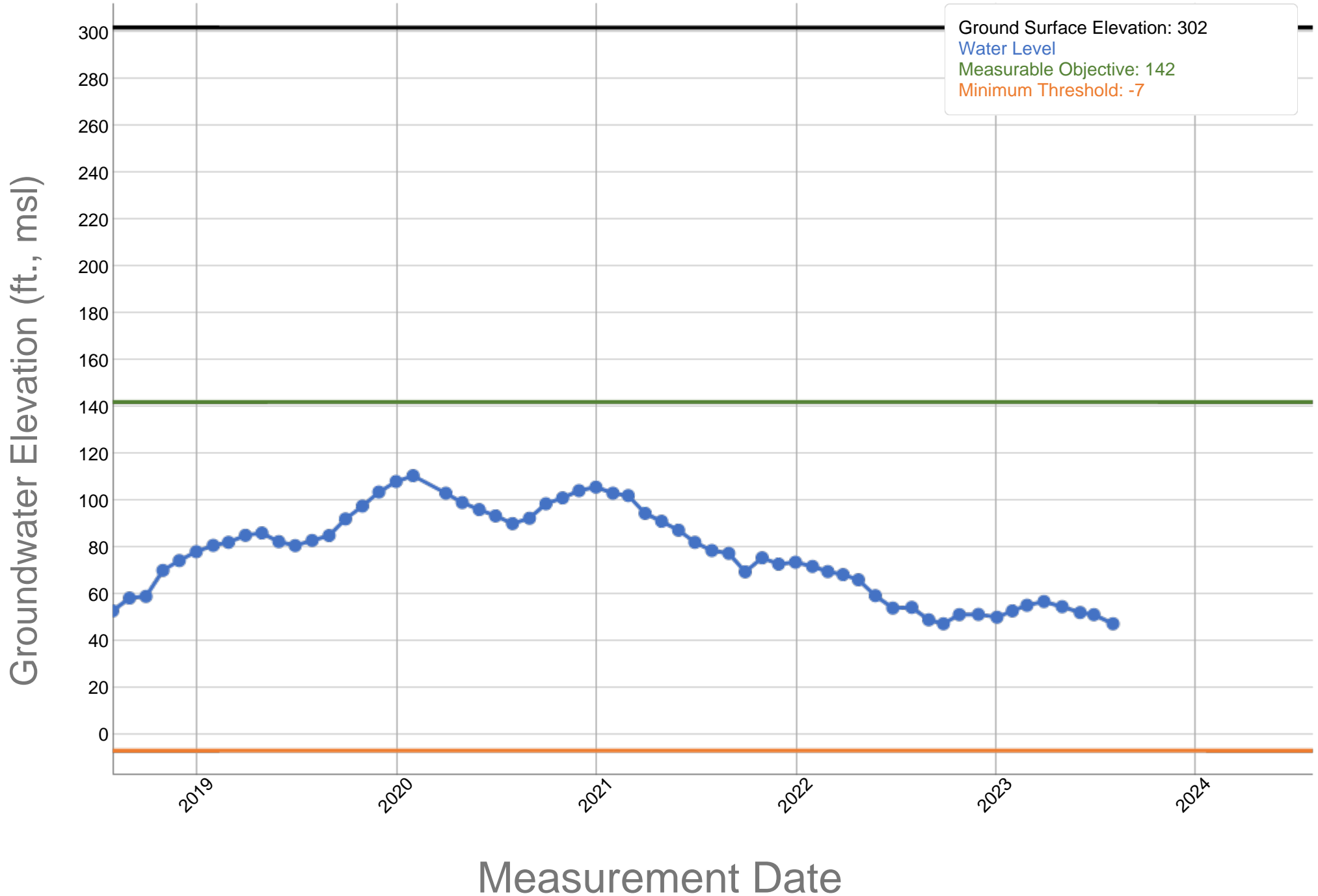
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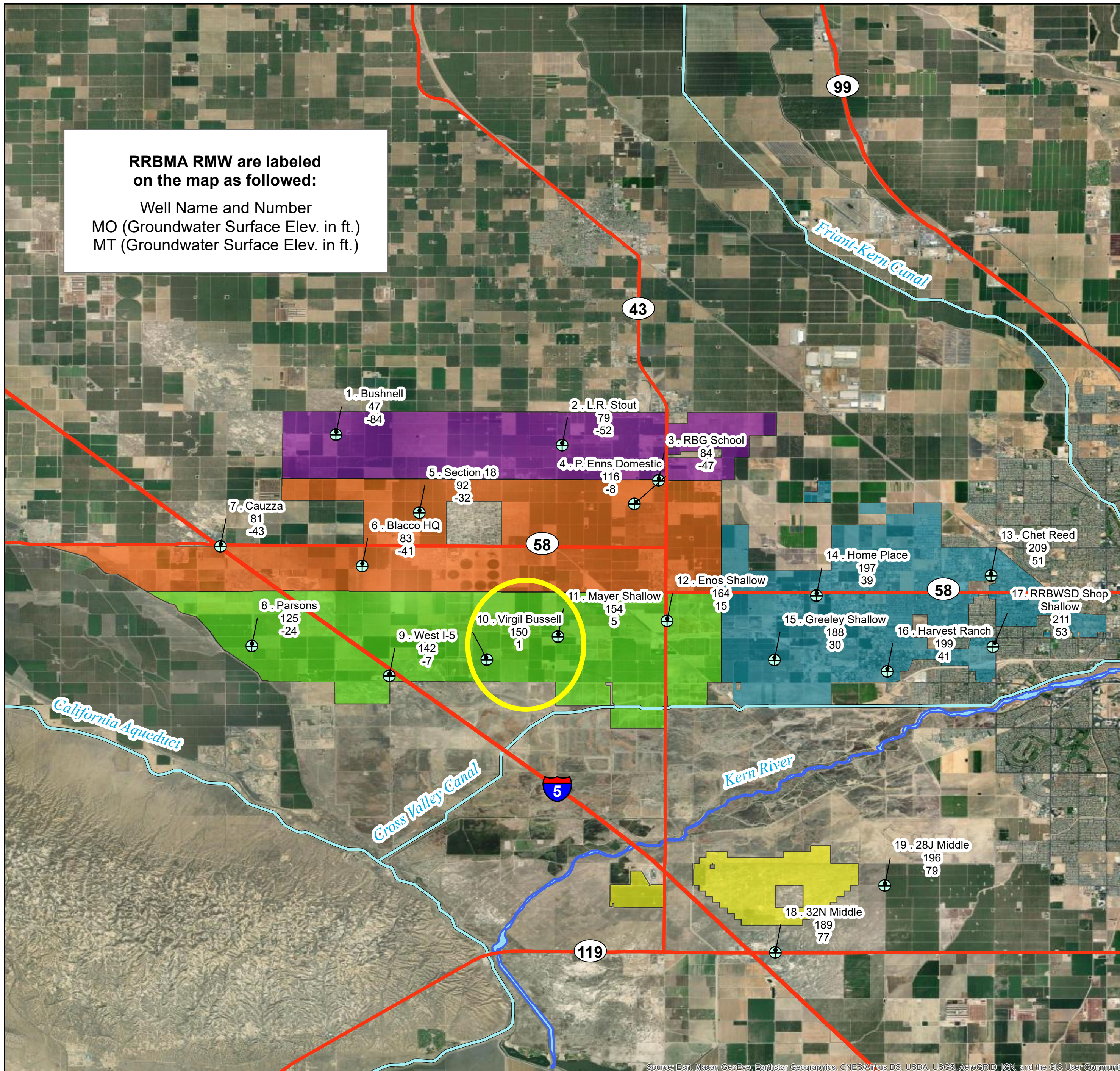


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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



RRBMA Monitoring Areas - RMW Water Level MOs and MTs



Legend

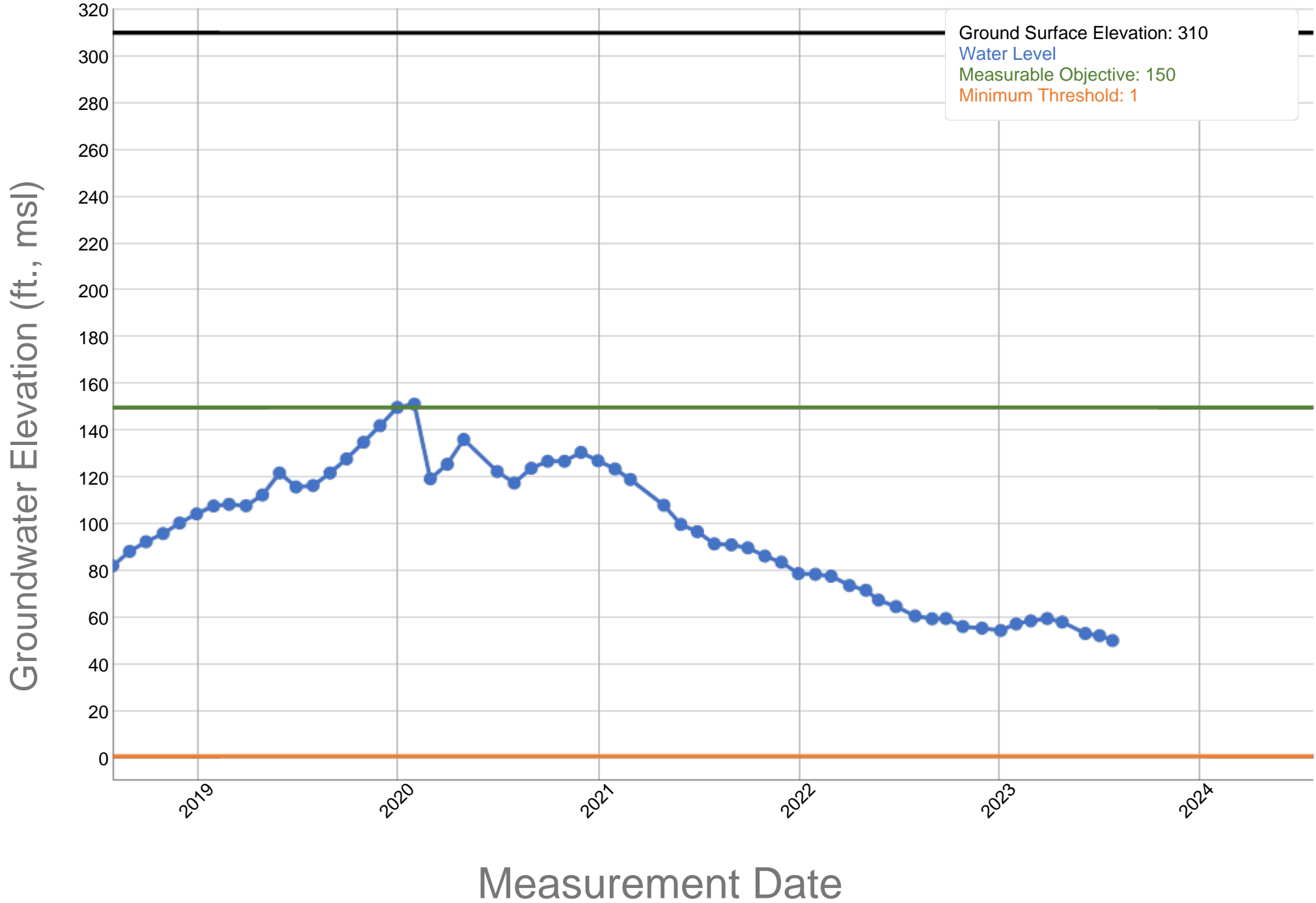
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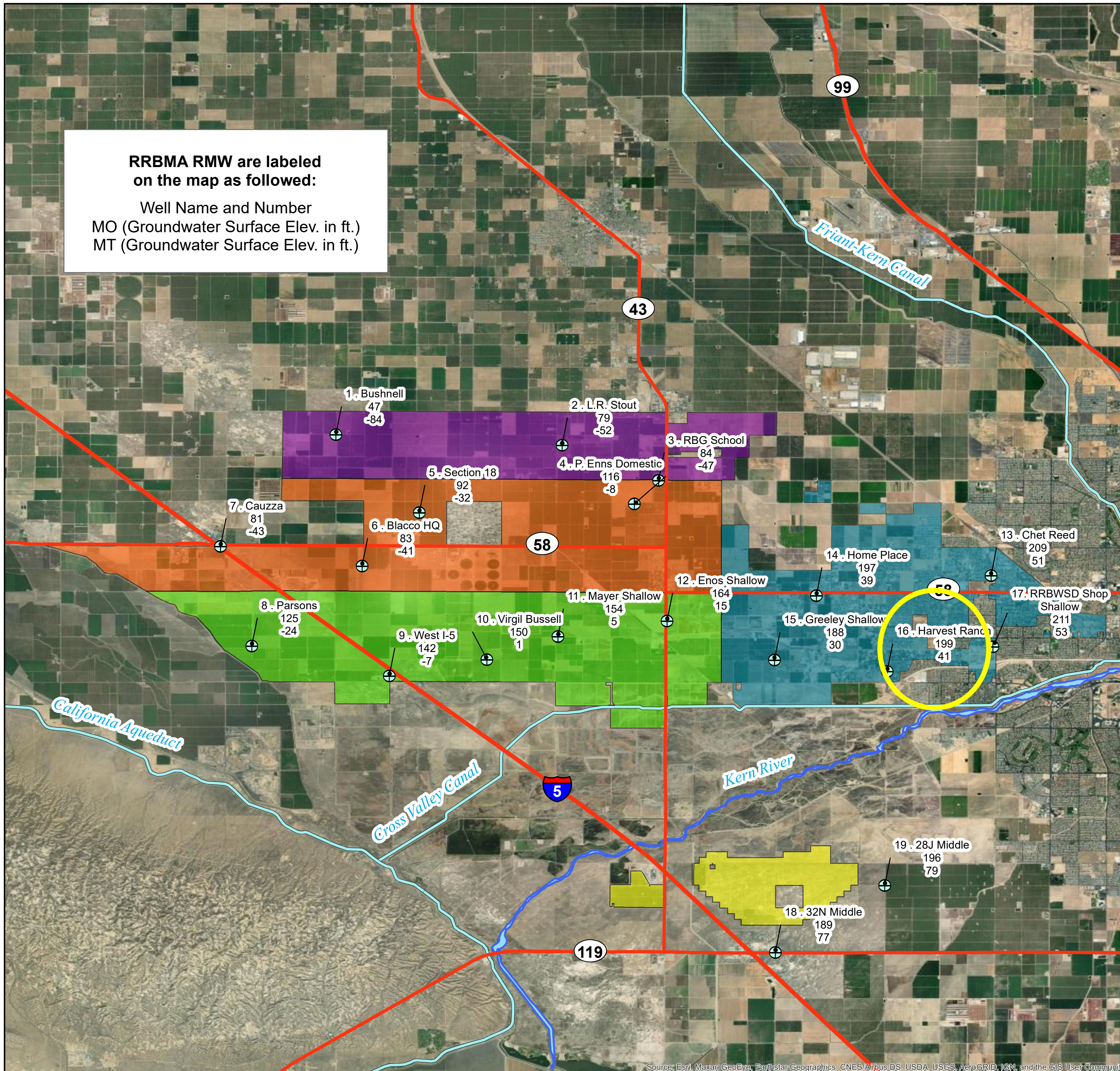


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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



RRBMA Monitoring Areas - RMW Water Level MOs and MTs



Legend

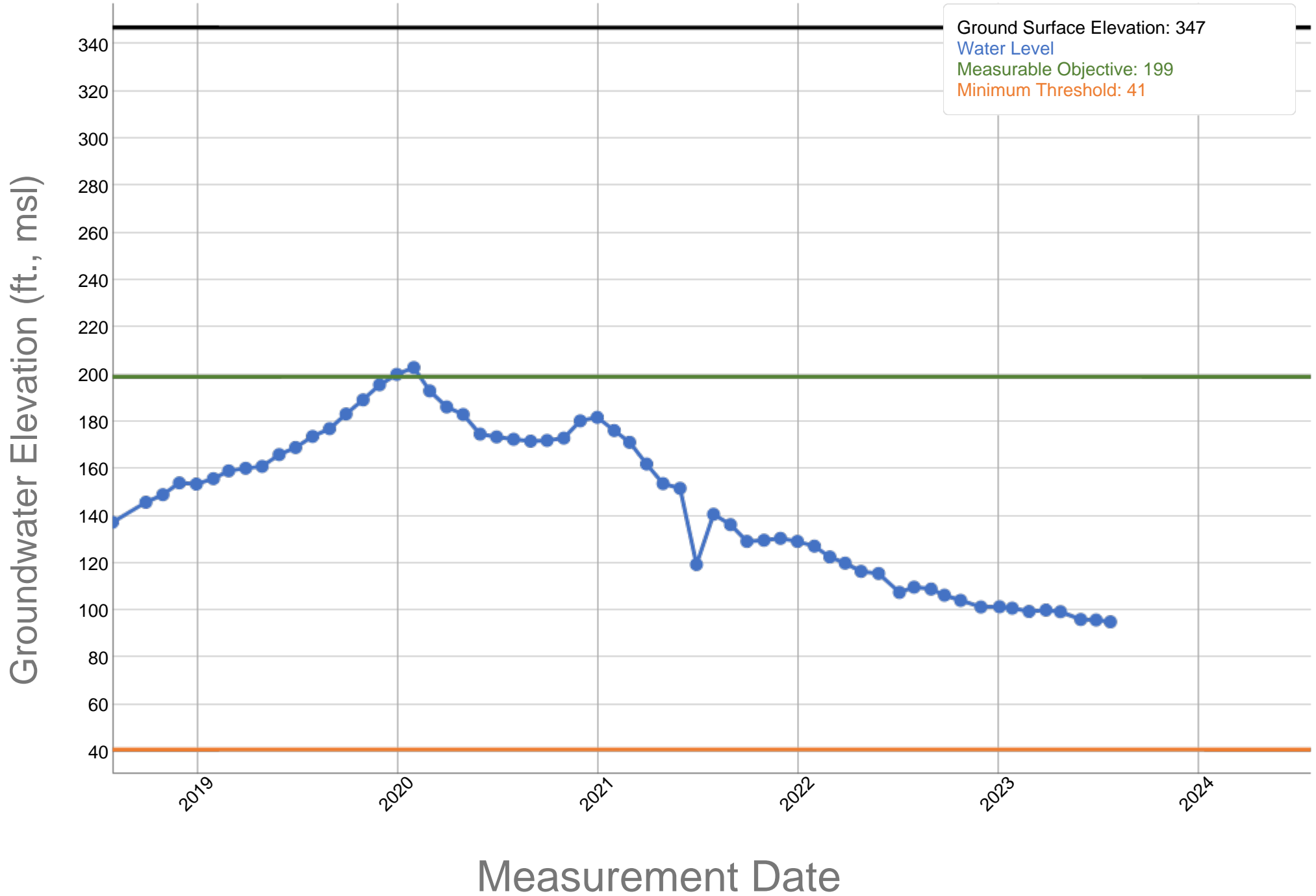
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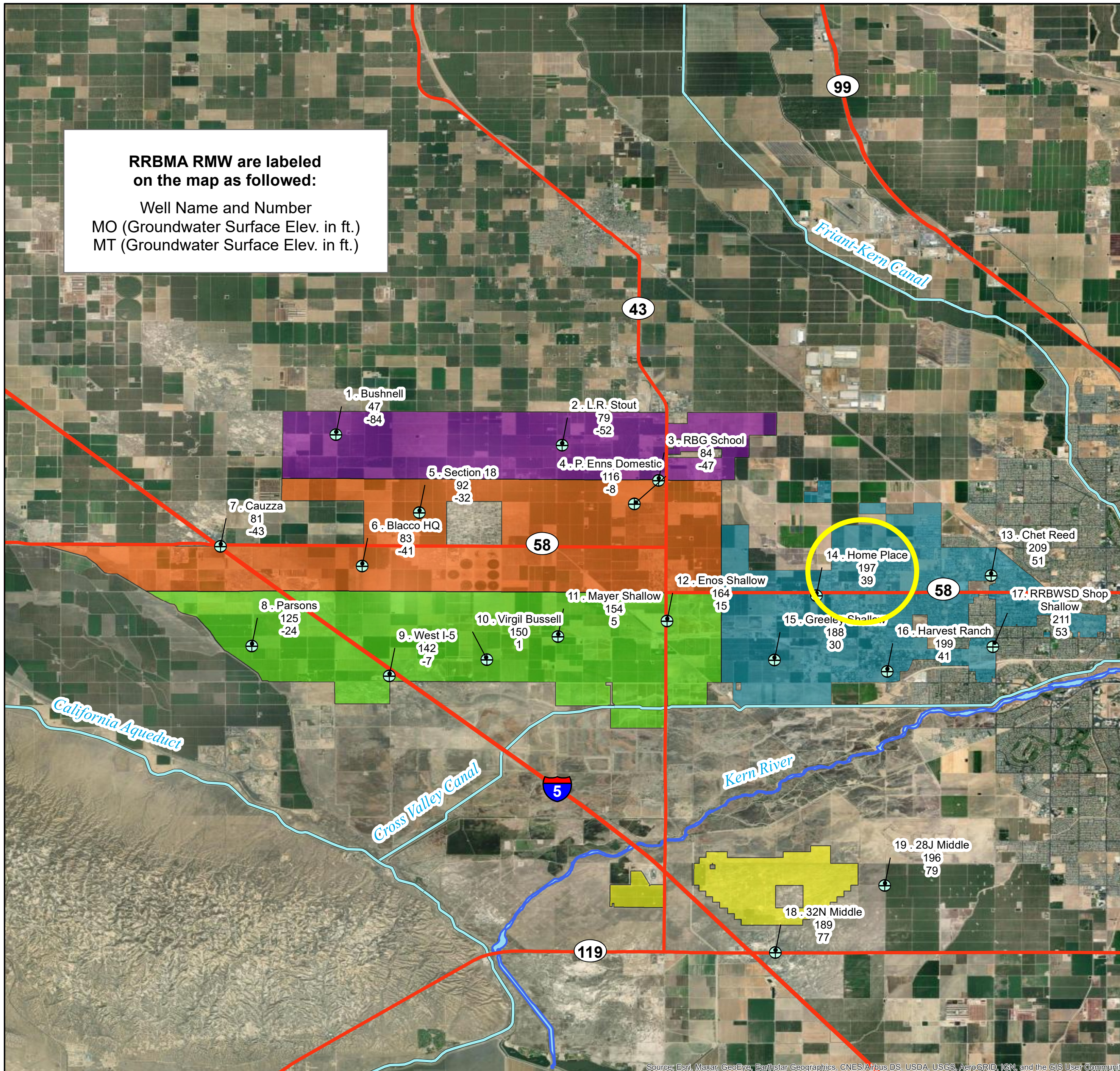


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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



RRBMA Monitoring Areas - RMW Water Level MOs and MTs



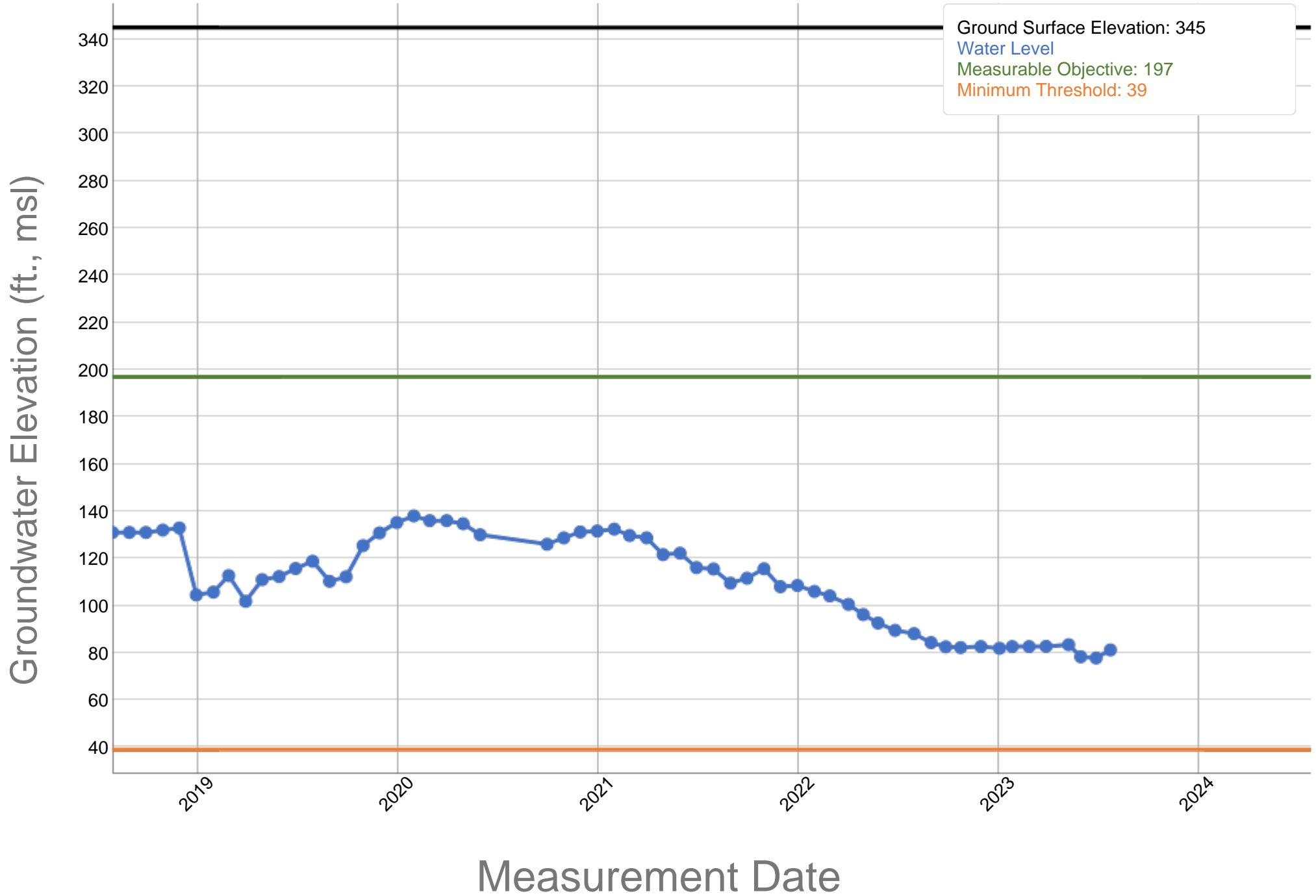
Legend

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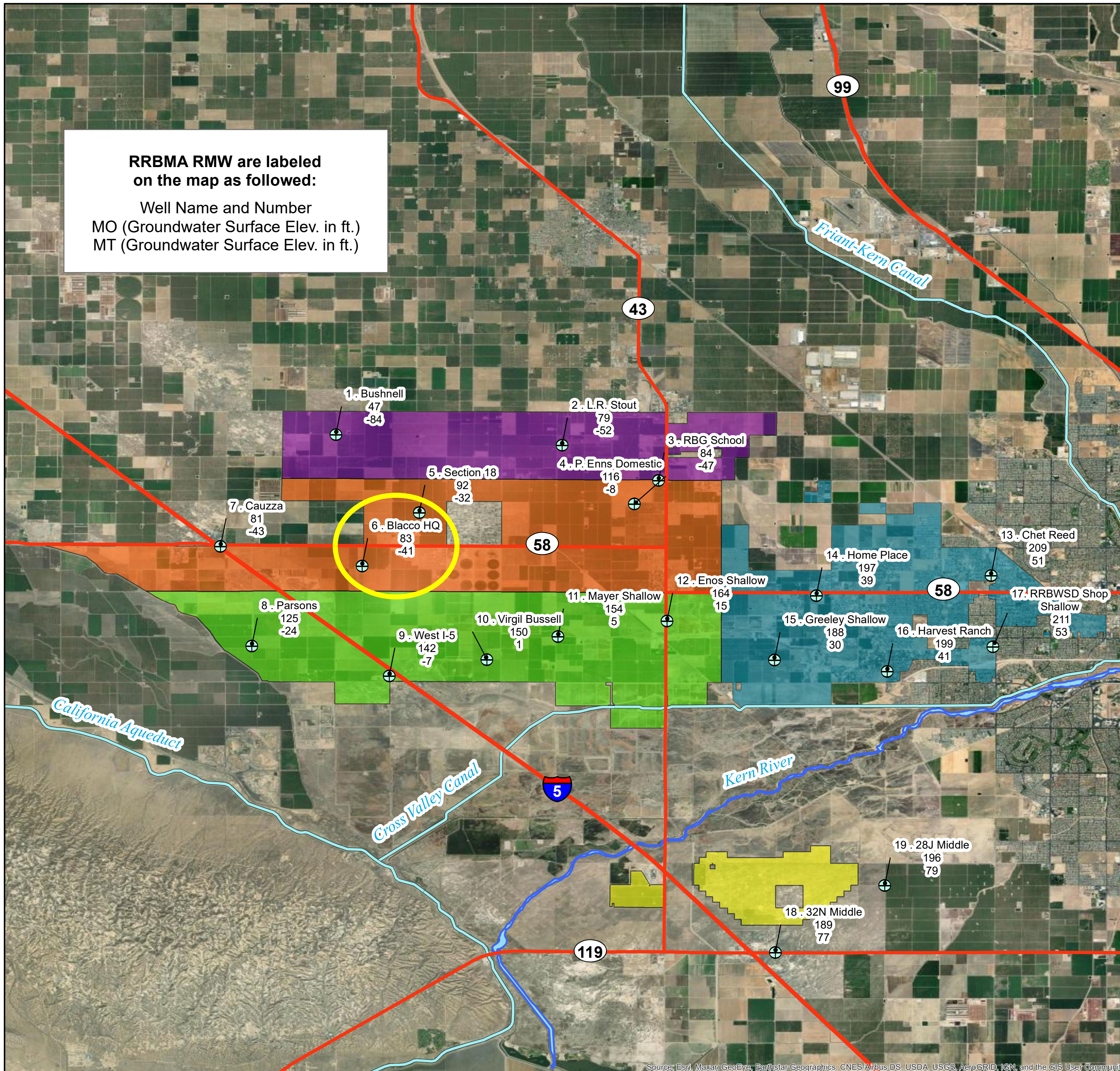
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Rosedale-Rio Bravo Water Storage District - Home Place - 353824N1192035W001



RRBMA Monitoring Areas - RMW Water Level MOs and MTs



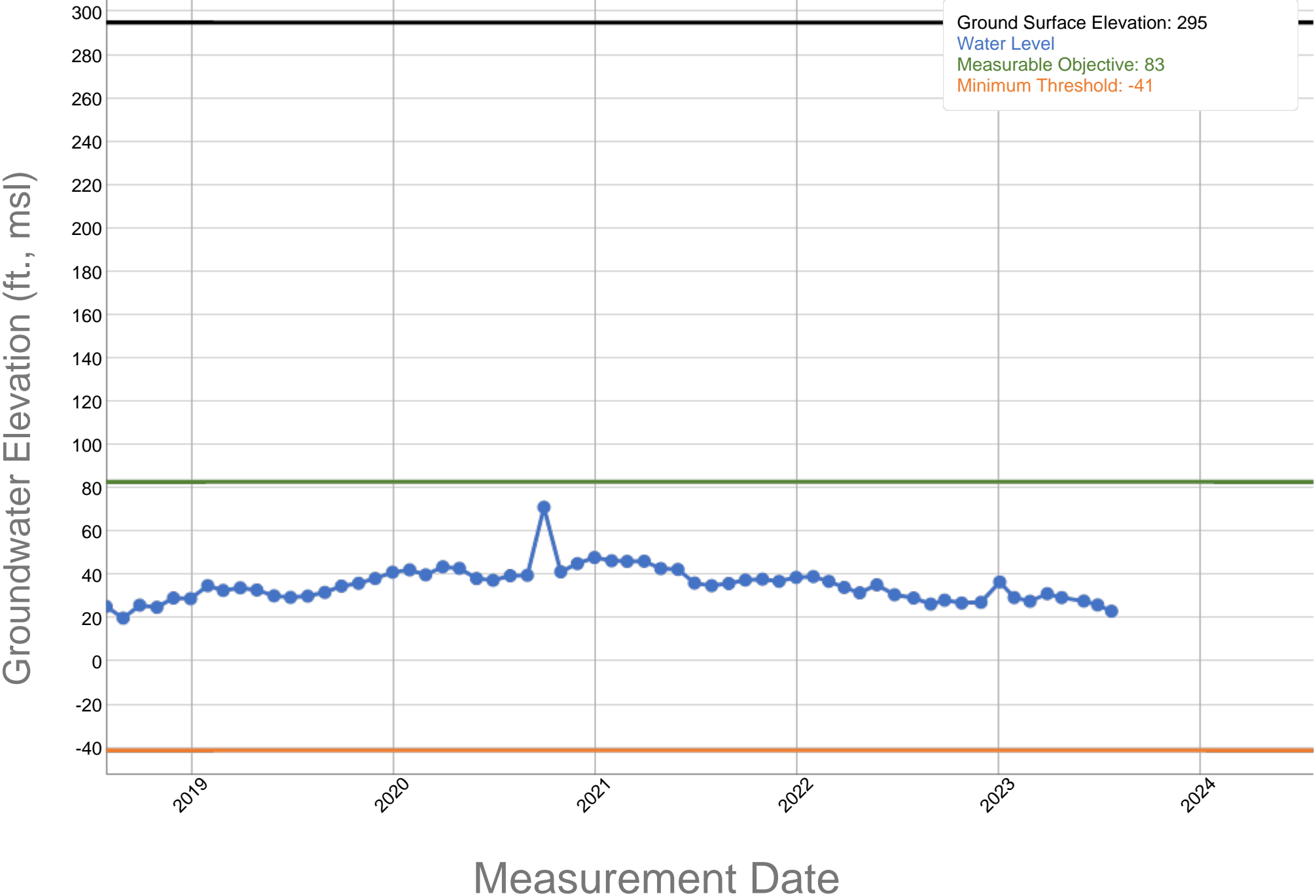
Legend

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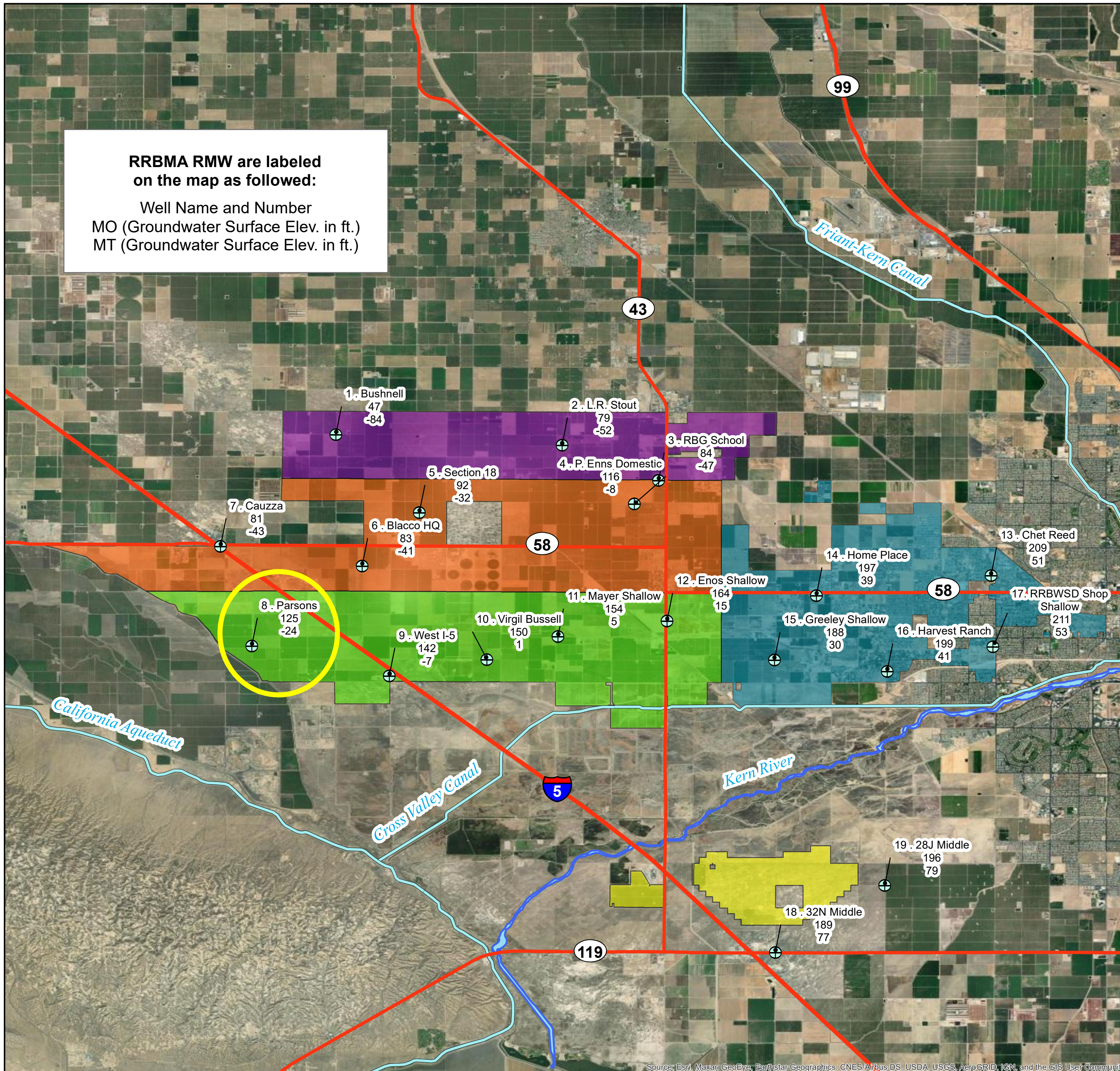
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Rosedale-Rio Bravo Water Storage District - Blacco HQ - 353915N1193454W001



RRBMA Monitoring Areas - RMW Water Level MOs and MTs



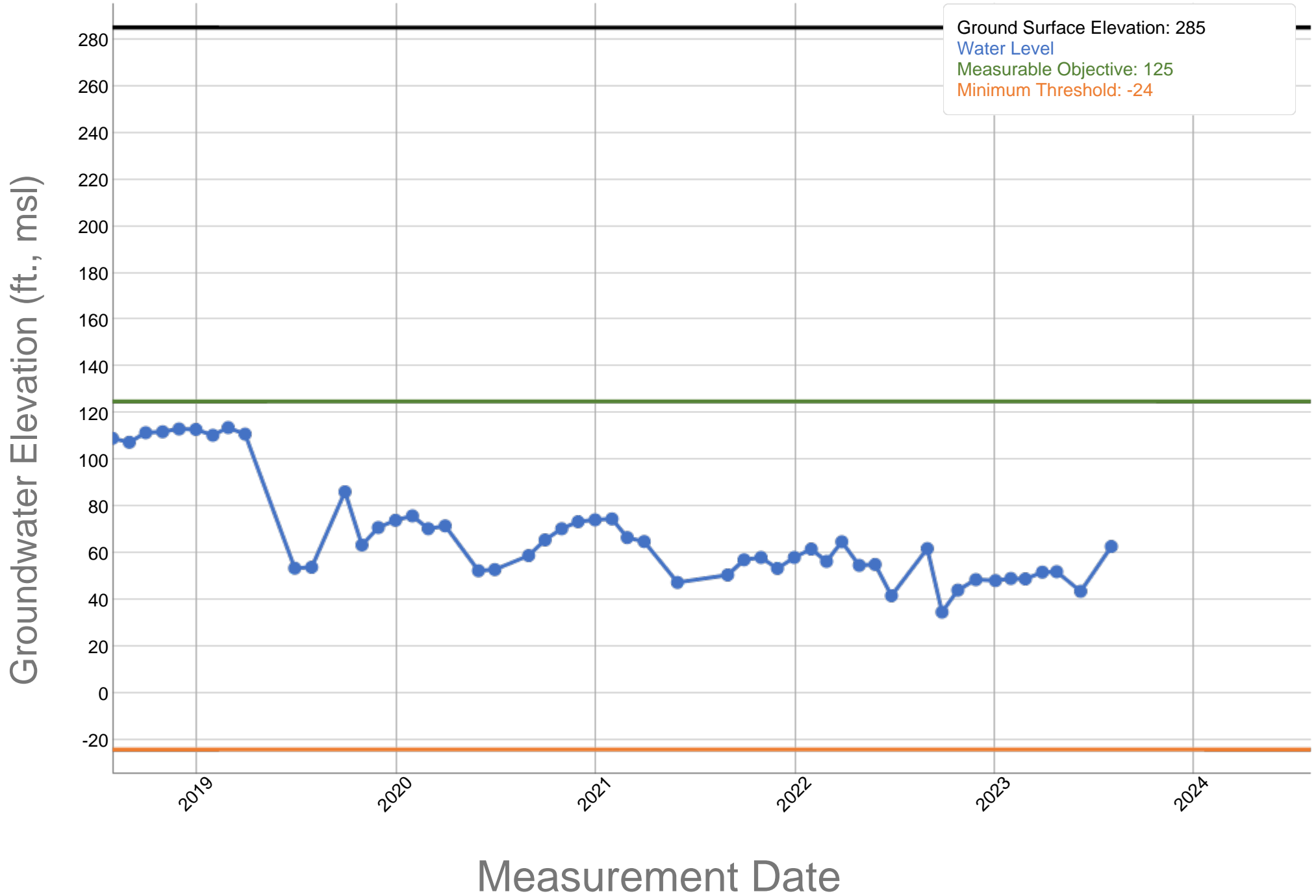
Legend

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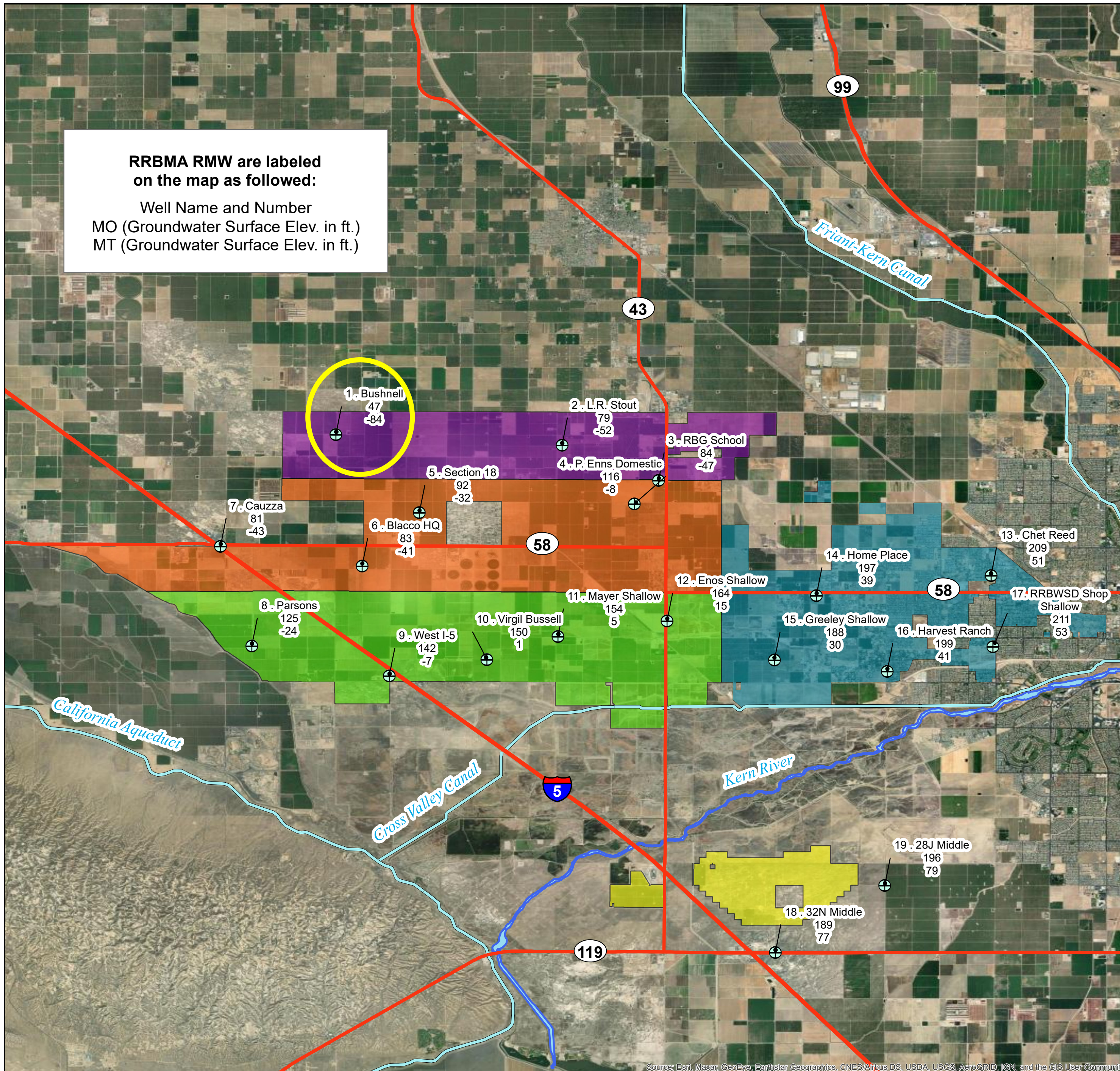
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Rosedale-Rio Bravo Water Storage District - Parsons - 353663N1193859W001



RRBMA Monitoring Areas - RMW Water Level MOs and MTs



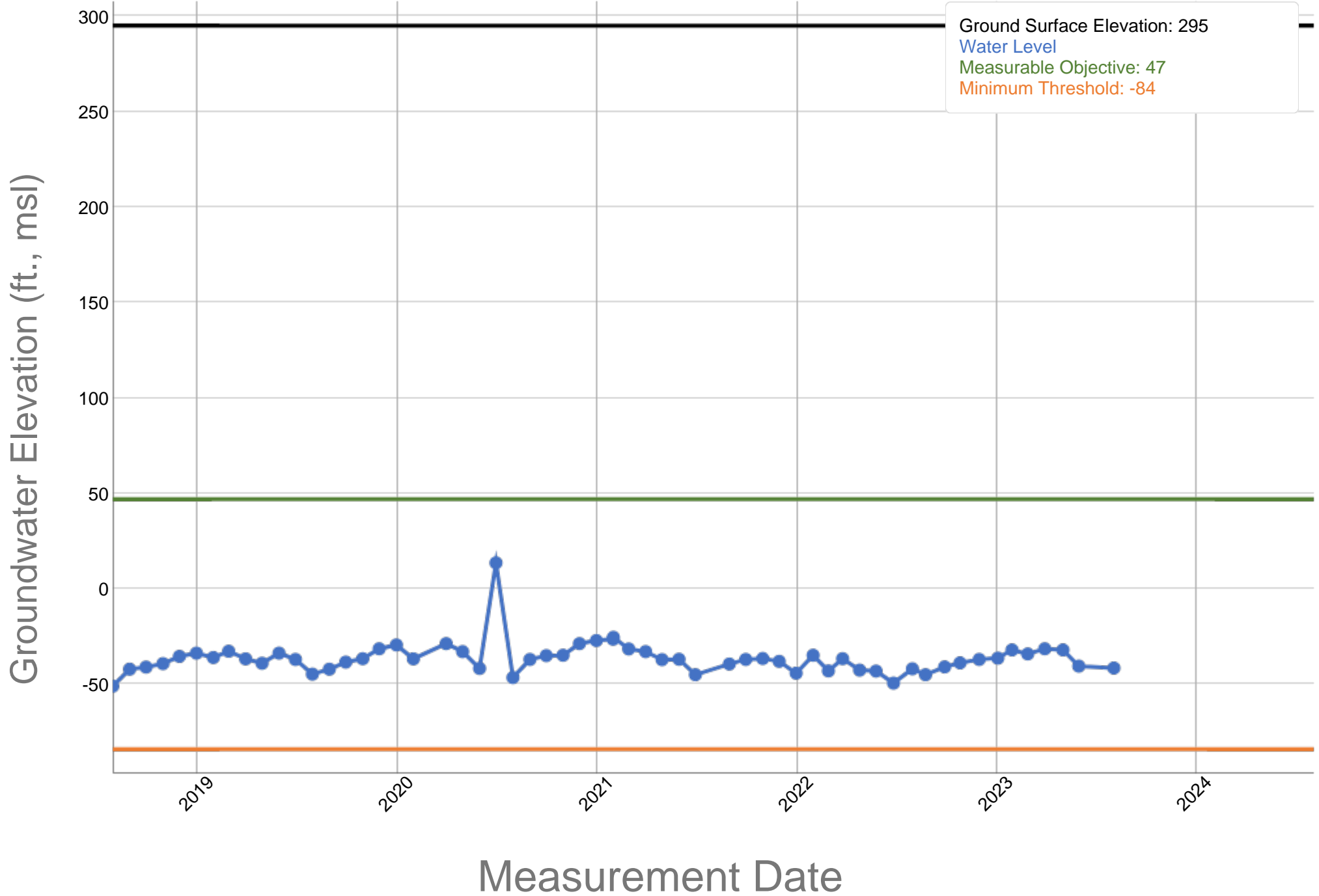
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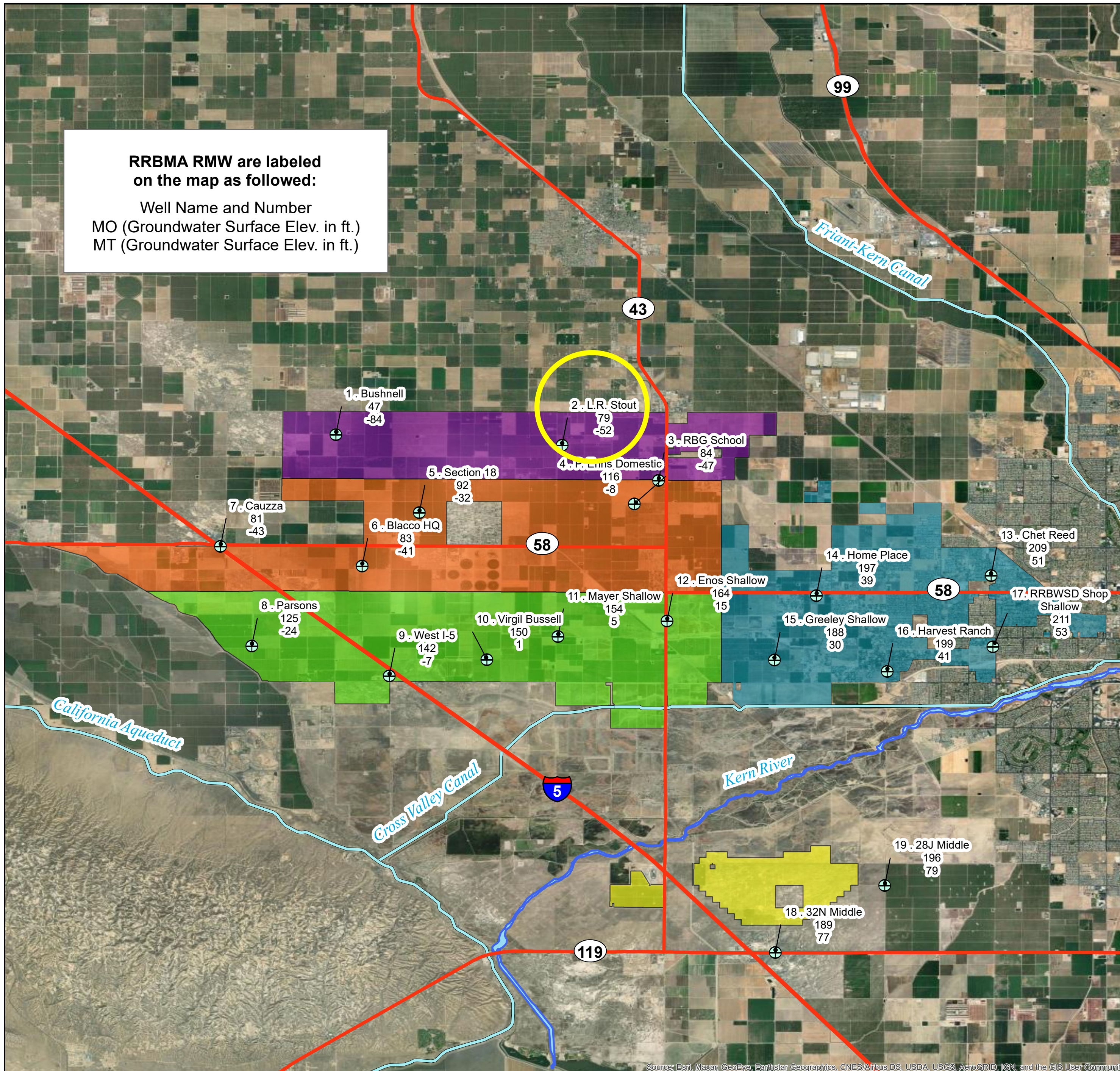
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Rosedale-Rio Bravo Water Storage District - Bushnell - 354350N1193586W001



RRBMA Monitoring Areas - RMW Water Level MOs and MTs



Legend

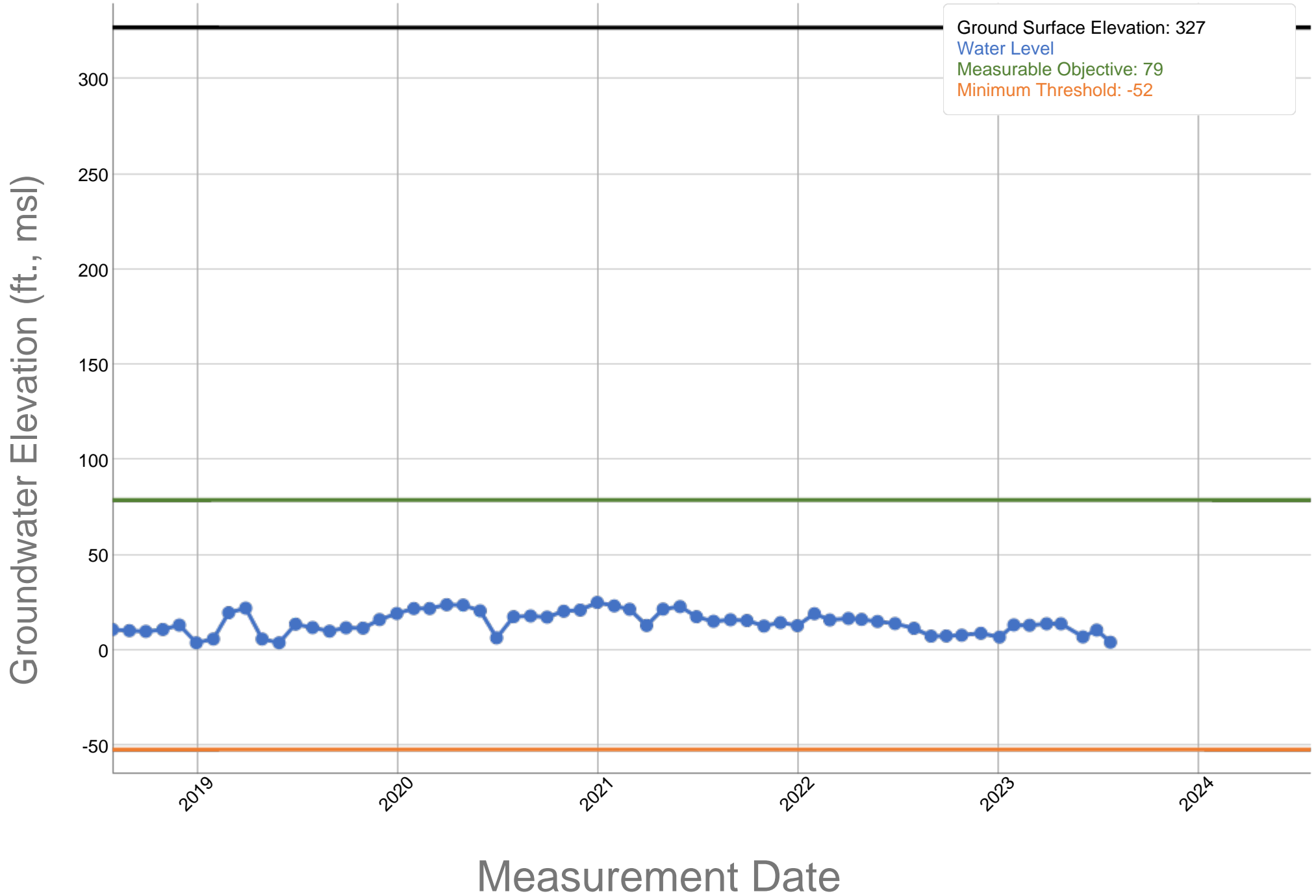
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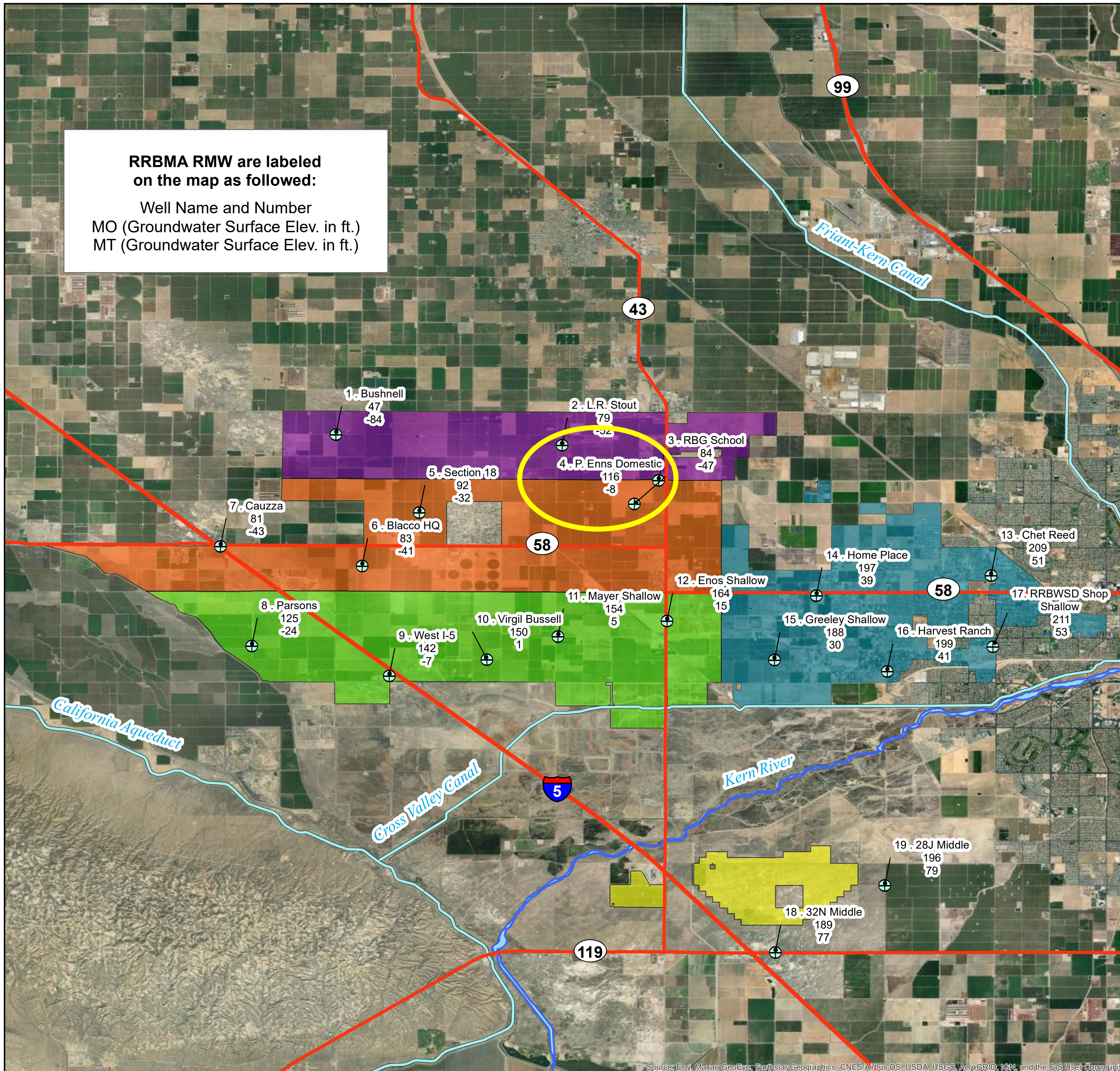


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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



RRBMA Monitoring Areas - RMW Water Level MOs and MTs



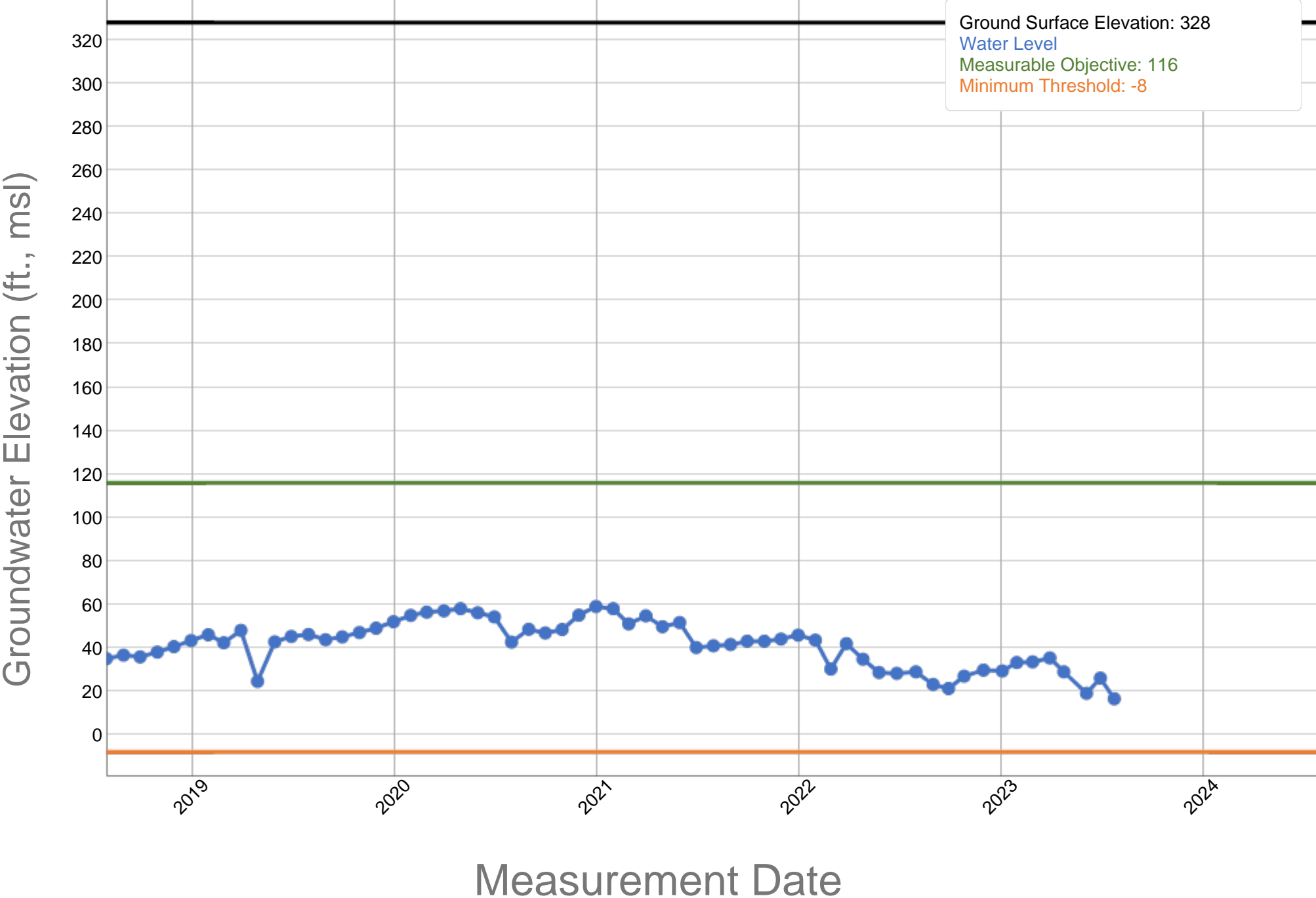
Legend

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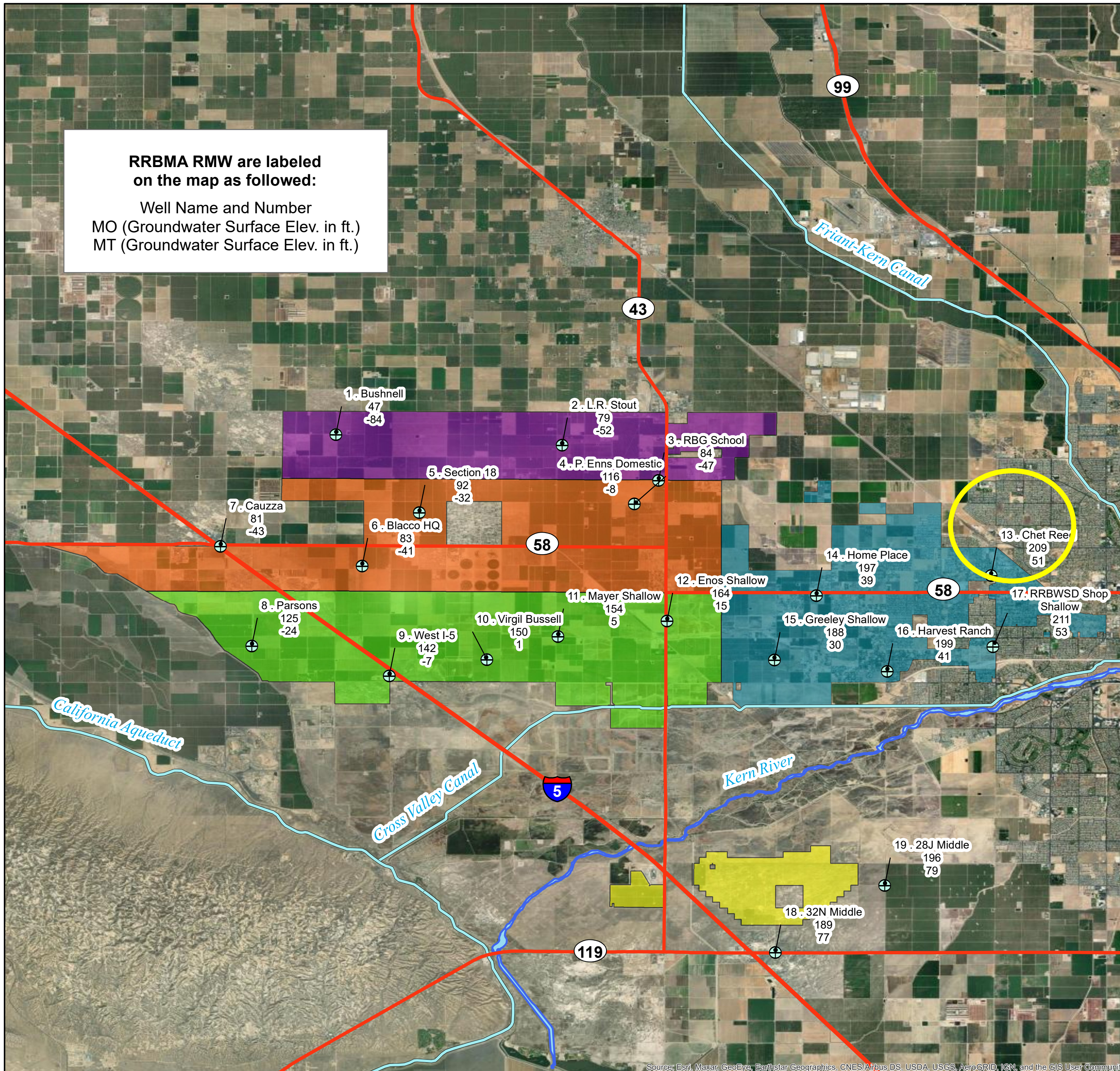
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Rosedale-Rio Bravo Water Storage District - P. Enns Domestic - 354121N1192623W001



RRBMA Monitoring Areas - RMW Water Level MOs and MTs



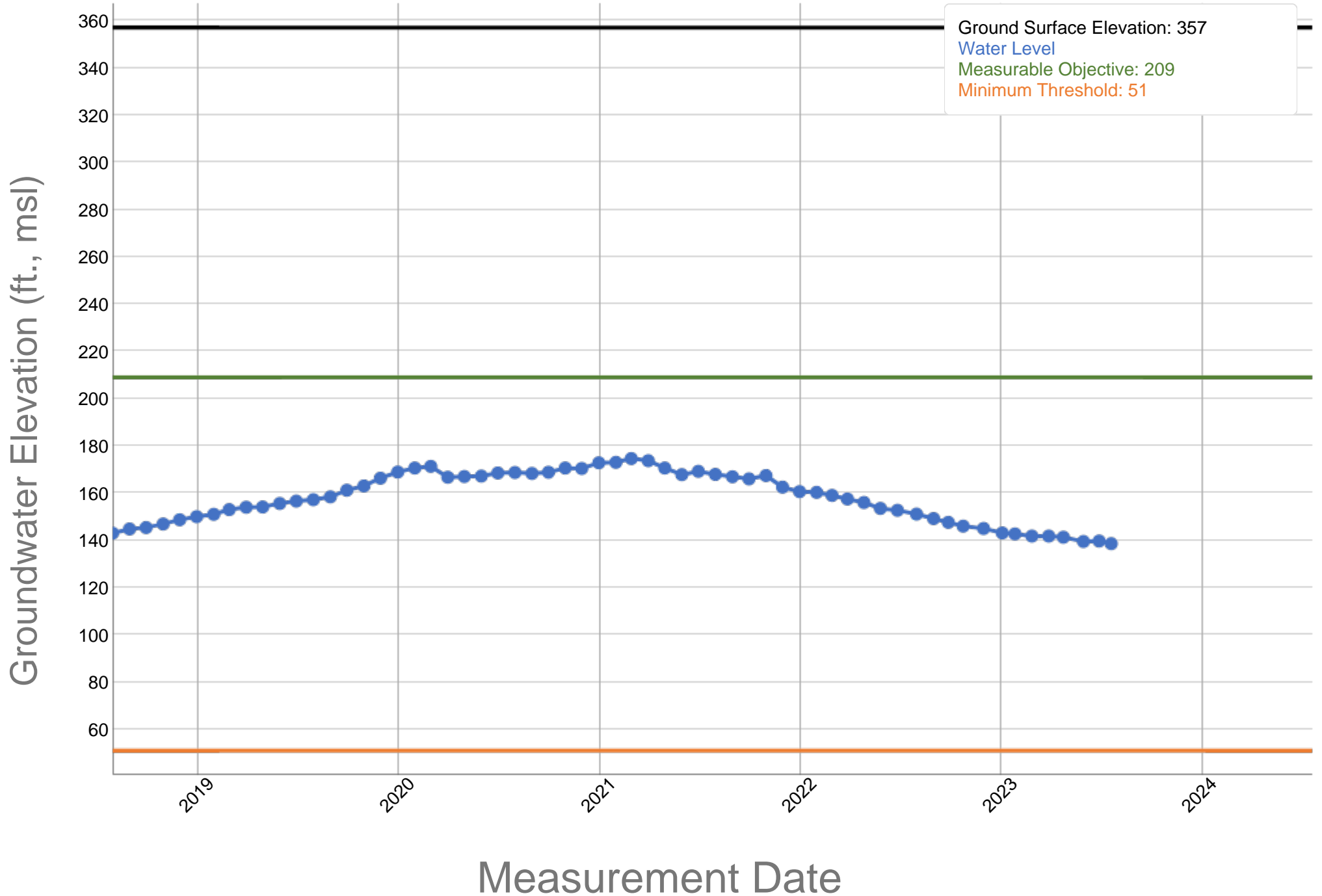
Legend

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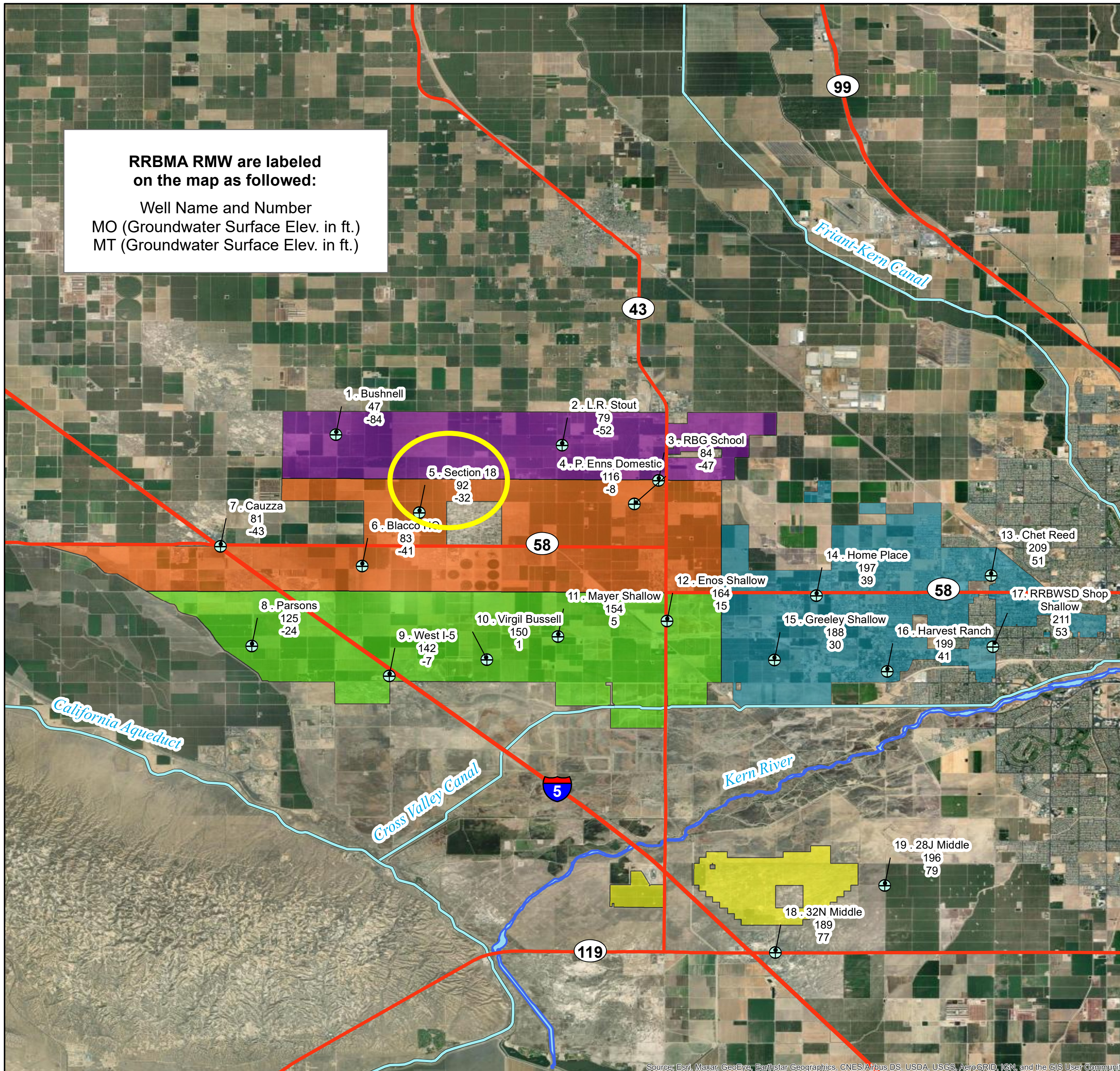
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Rosedale-Rio Bravo Water Storage District - Chet Reed - 353890N1191471W001



RRBMA Monitoring Areas - RMW Water Level MOs and MTs



Legend

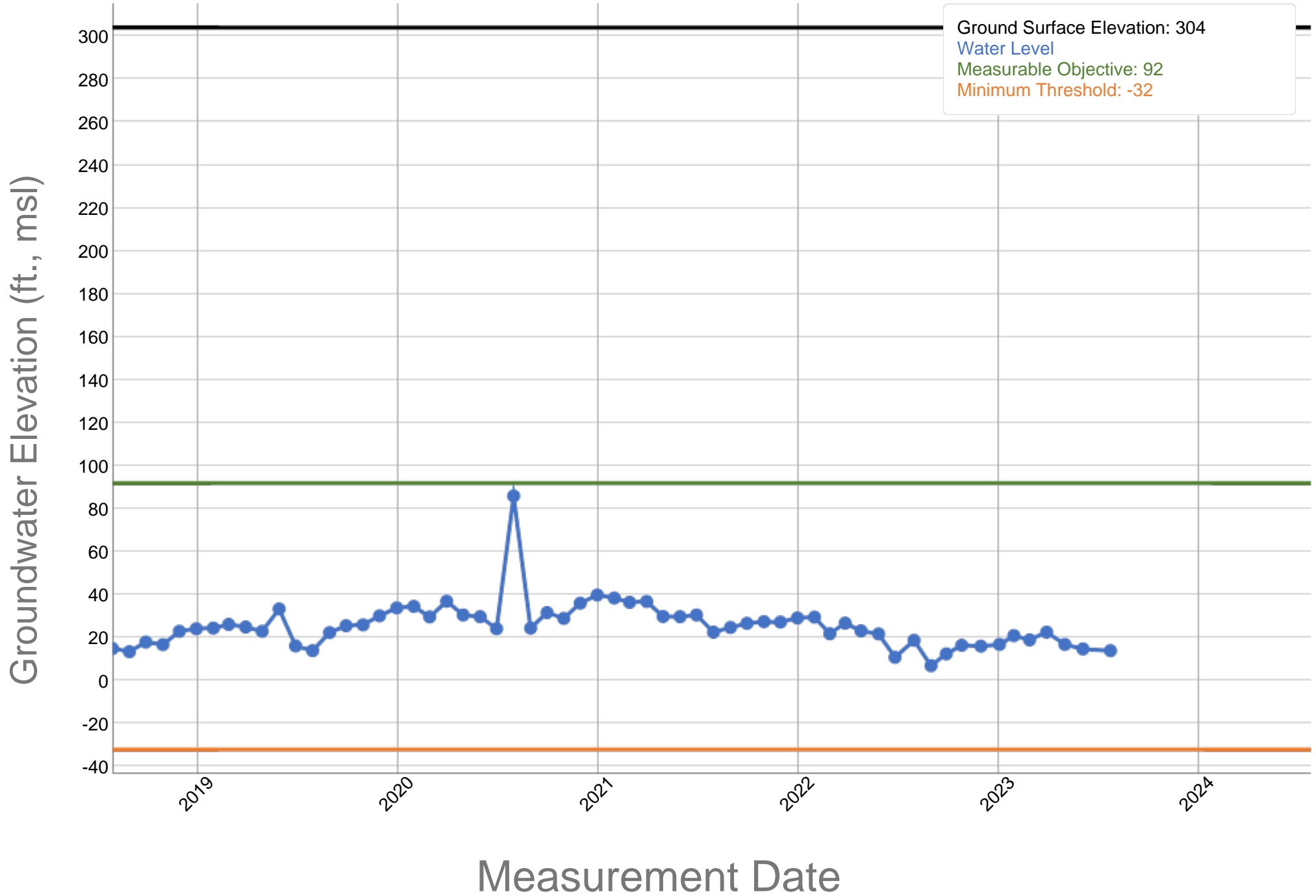
- ⊕ RRBMA RMW (Water Level)
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- Major Conveyance Facilities
- Kern River
- North Monitoring Area
- Central Monitoring Area
- South Monitoring Area
- East Monitoring Area
- South of the River Monitoring Area

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

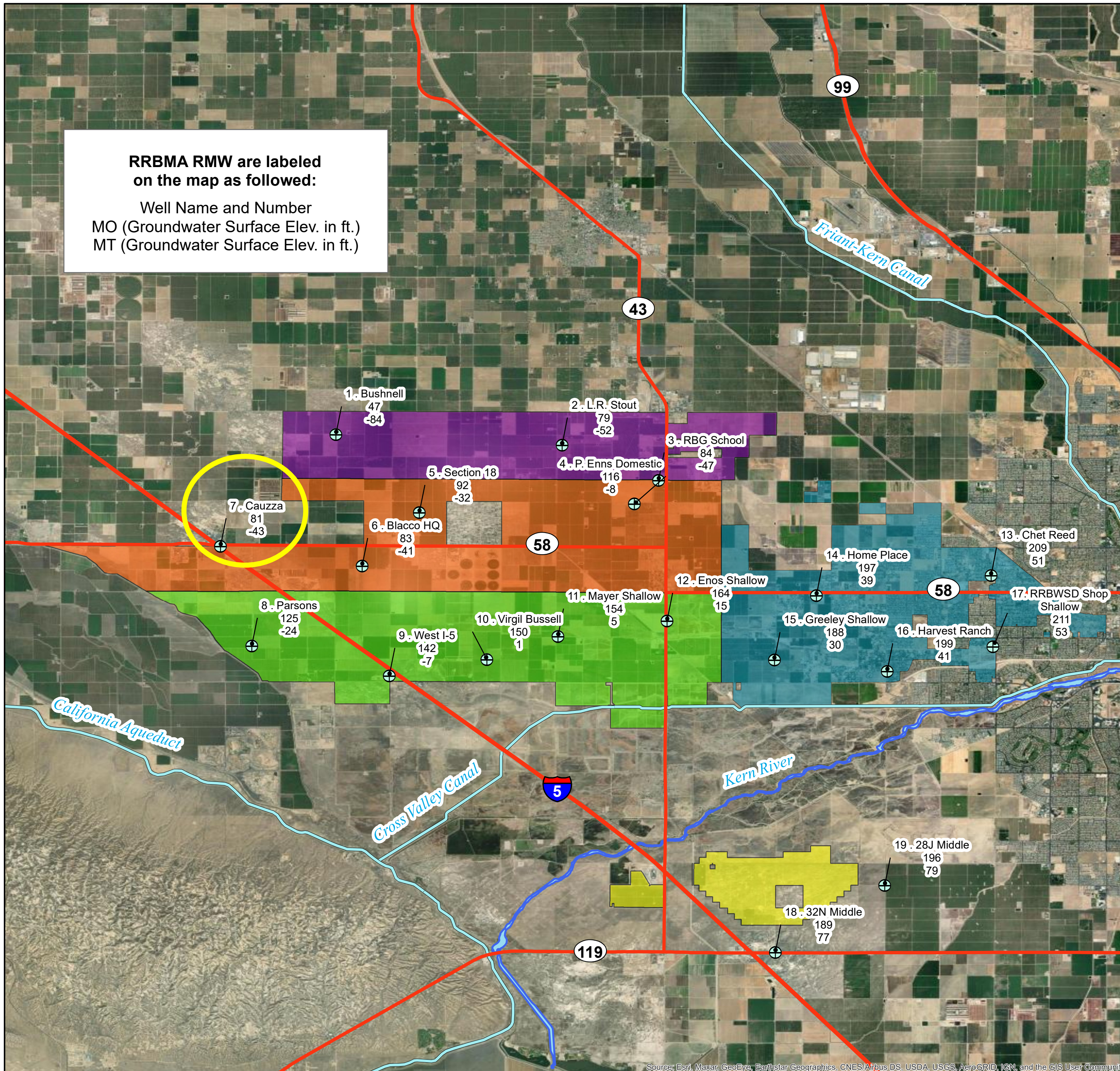


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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



RRBMA Monitoring Areas - RMW Water Level MOs and MTs



Legend

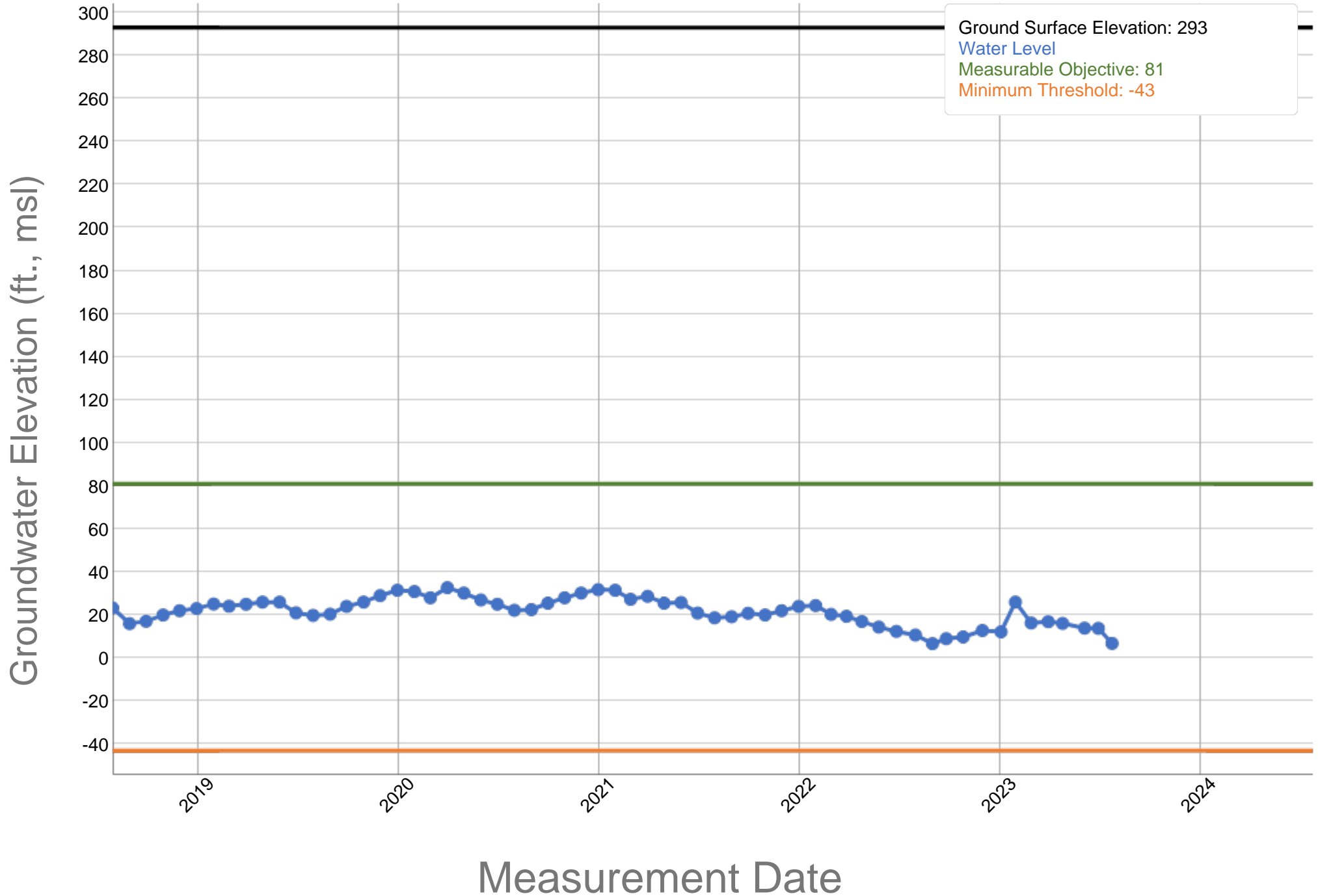
- ⊕ RRBMA RMW (Water Level)
- Major Highways
- Major Conveyance Facilities
- Kern River
- North Monitoring Area
- Central Monitoring Area
- South Monitoring Area
- East Monitoring Area
- South of the River Monitoring Area

*RMW = Representative Monitoring Well
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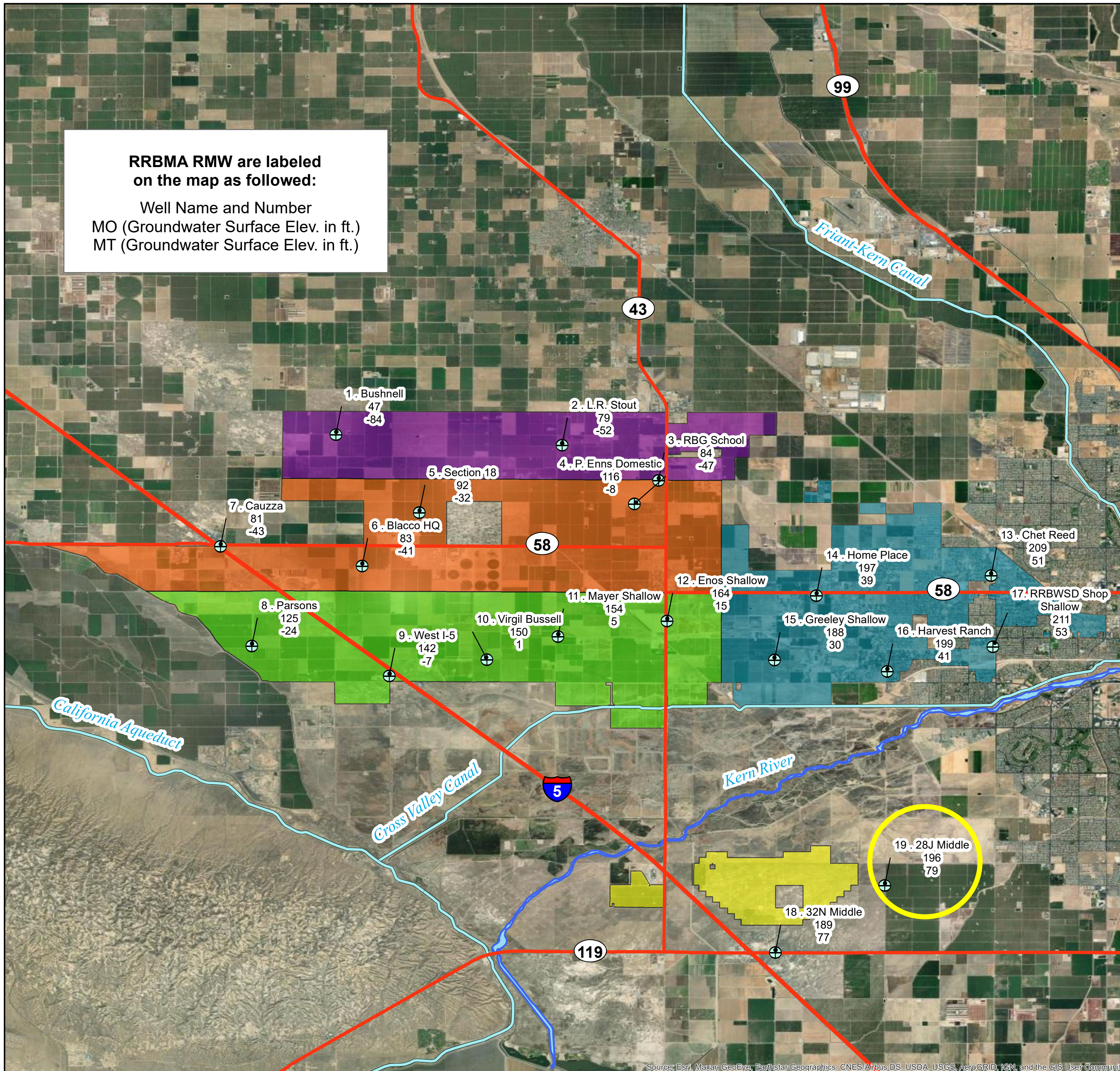


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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



RRBMA Monitoring Areas - RMW Water Level MOs and MTs



Legend

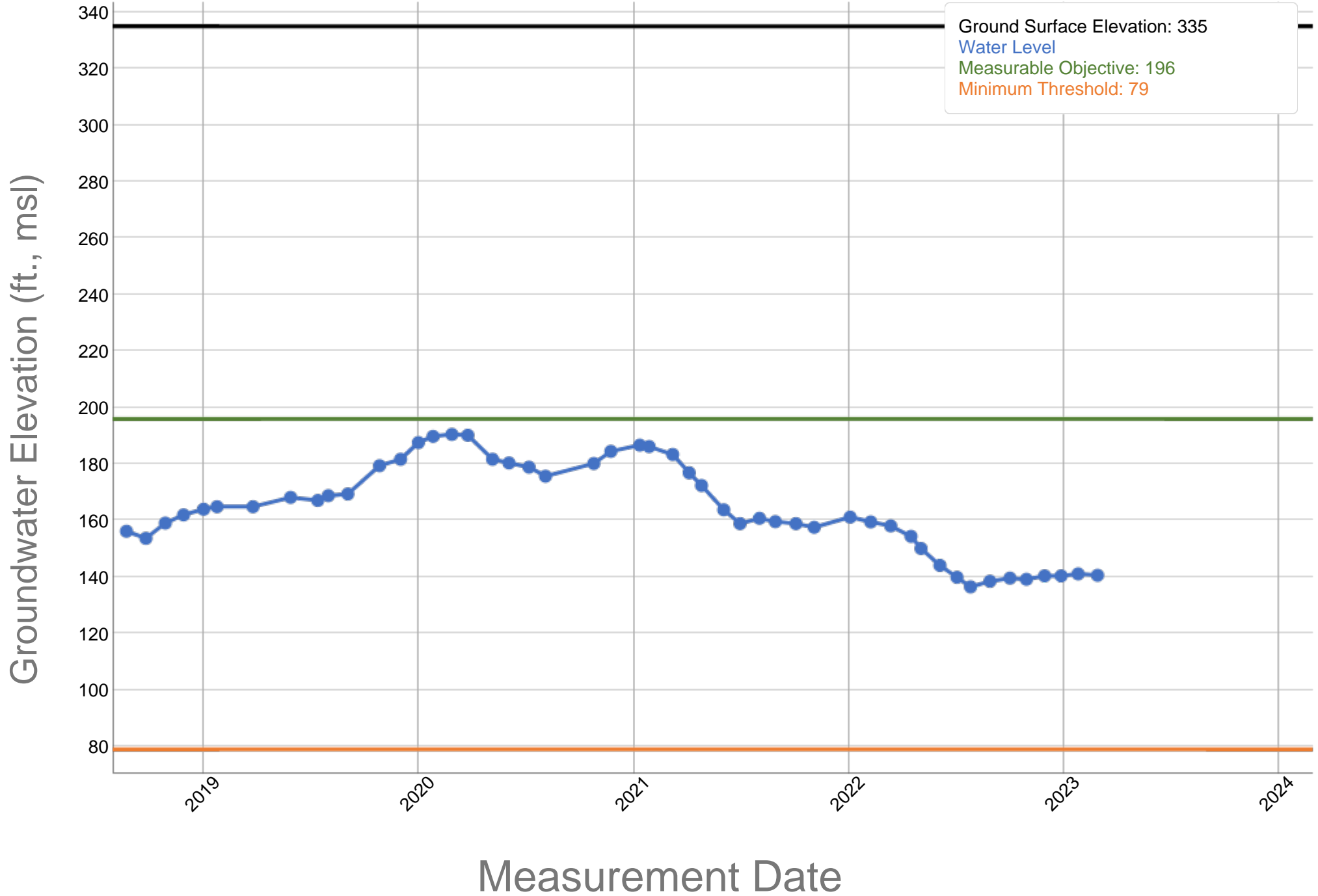
- ⊕ RRBMA RMW (Water Level)
- Major Highways
- Major Conveyance Facilities
- Kern River
- North Monitoring Area
- Central Monitoring Area
- South Monitoring Area
- East Monitoring Area
- South of the River Monitoring Area

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

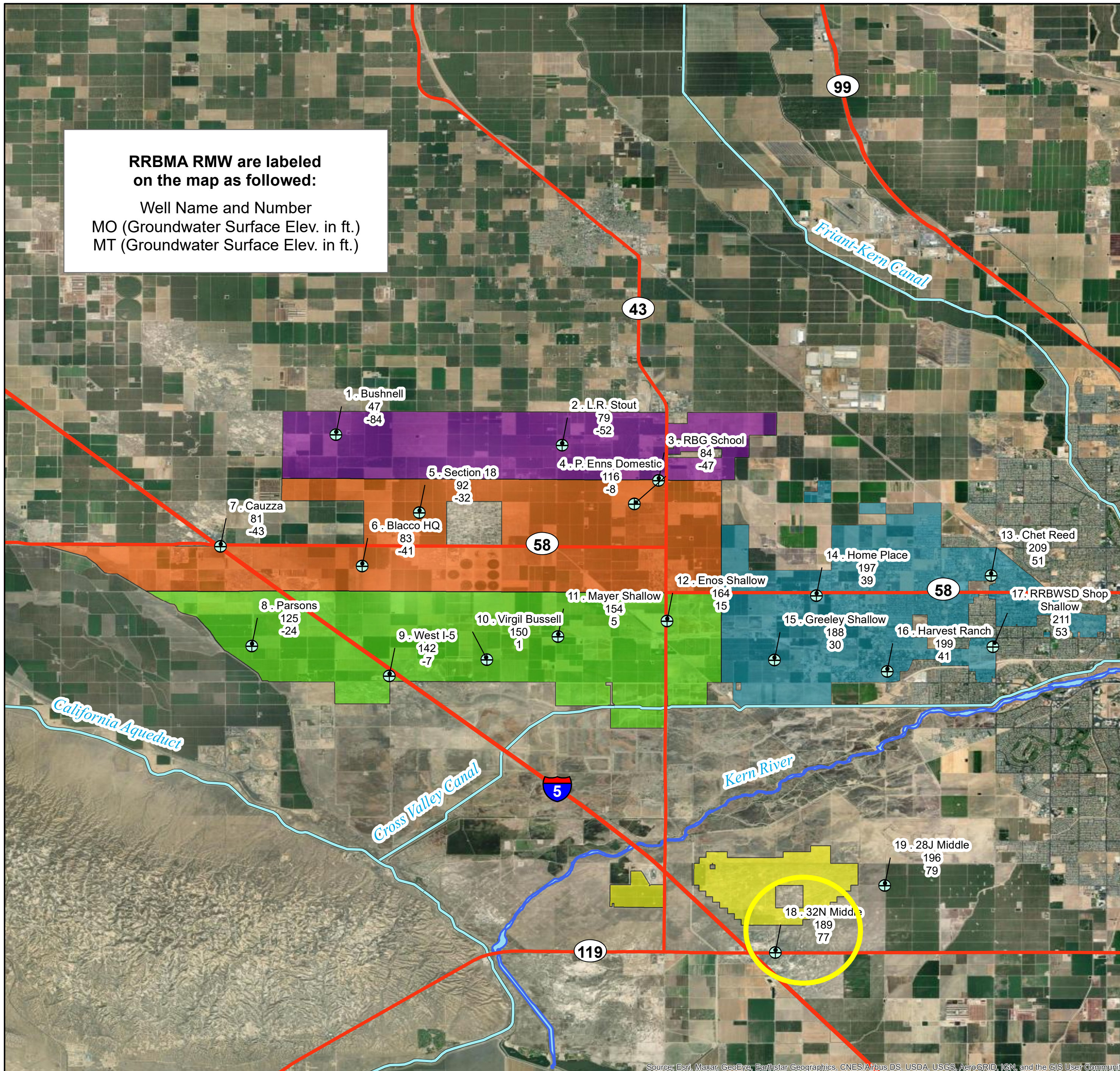


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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



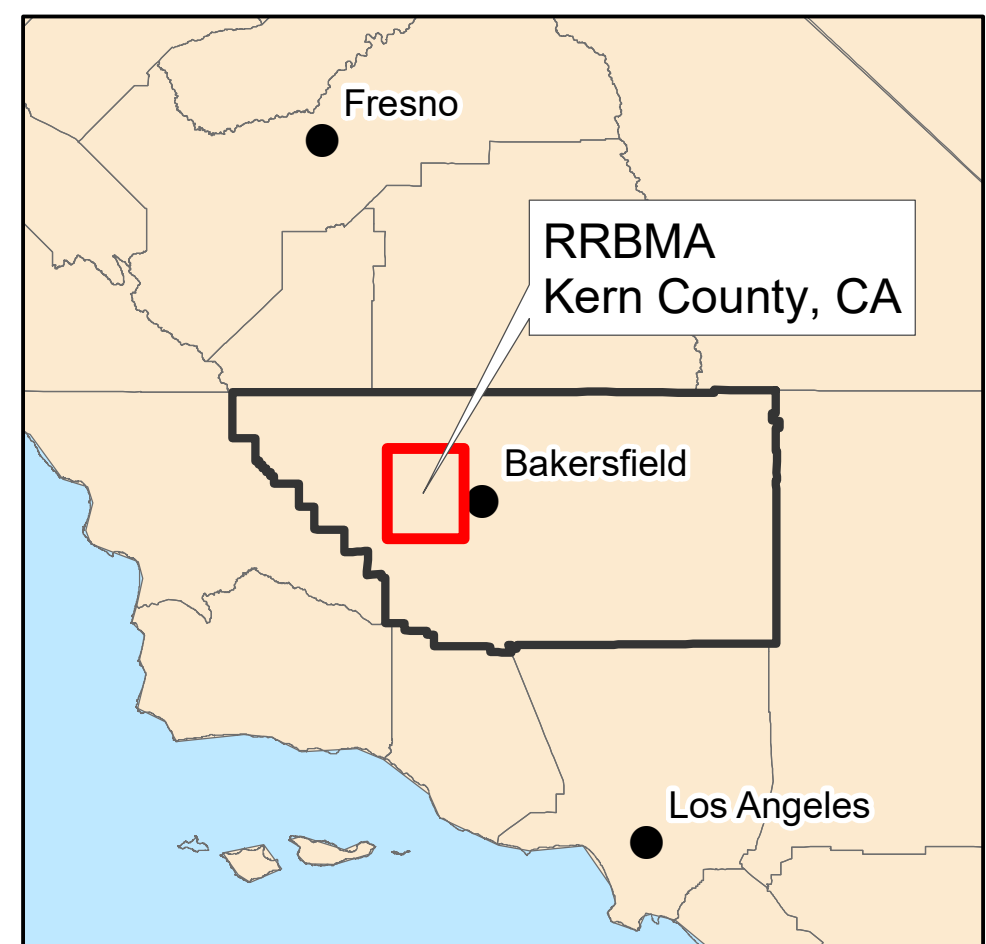
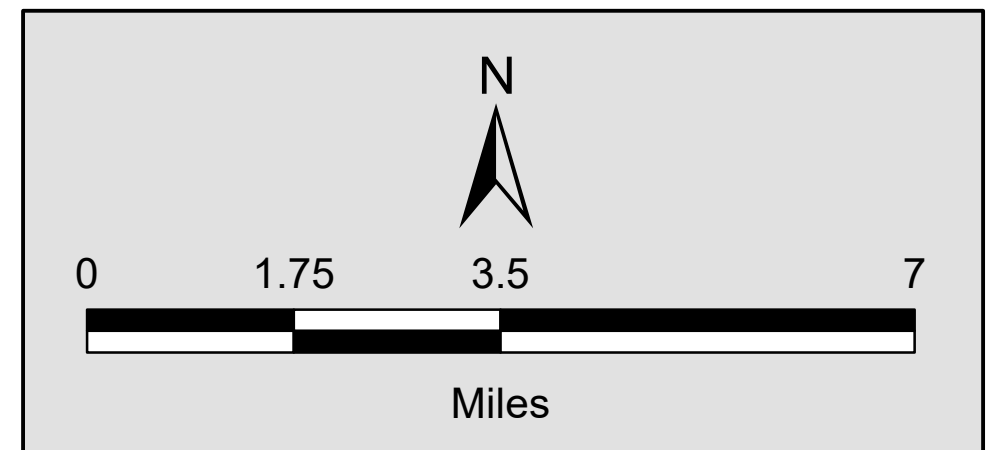
RRBMA Monitoring Areas - RMW Water Level MOs and MTs



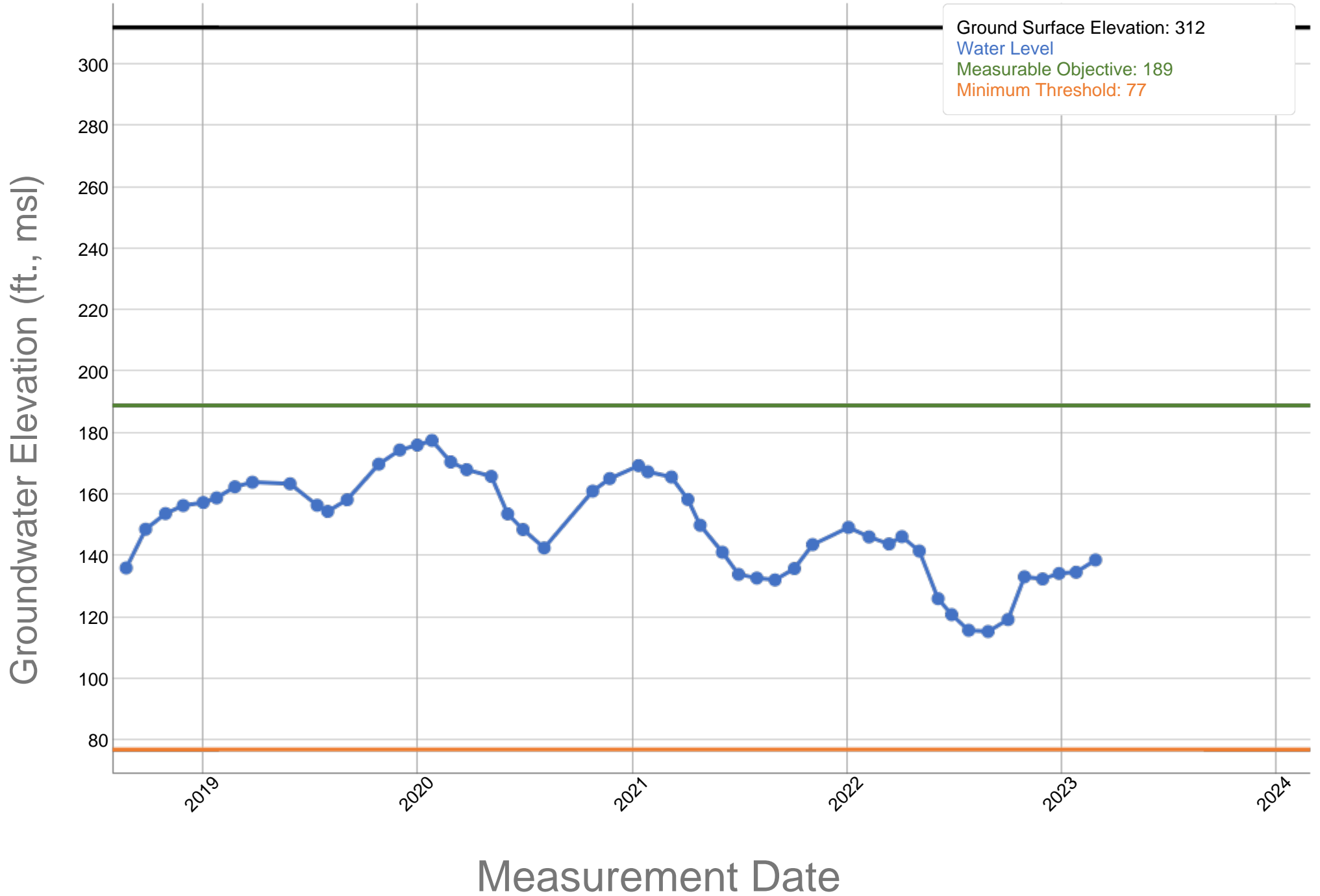
Legend

- ⊕ 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
MT = Minimum Threshold*



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



TO: Rosedale-Rio Bravo Water Storage District Board of Directors
Agenda Item 4.c

FROM: Zach Smith

DATE: August 11, 2023

RE: Maintenance Report

Discussion:

Staff worked on some maintenance items throughout the District in July. Specifically:

- Herbicide application in North and South Strand, Stockdale East, and Enns areas.
- Hand-cleaning weeds along Stockdale East.
- Flushed Central Intake at air vents from pump station to railroad tracks.
- Scheduled service for Pump Station AC units.
- Backhoe used to repair multiple leaks and levees throughout District.
- Staff prepared 2-7/8" tubing to be used for fence bracing.
- Staff completed monthly cleaning of electrical panels on recovery wells.

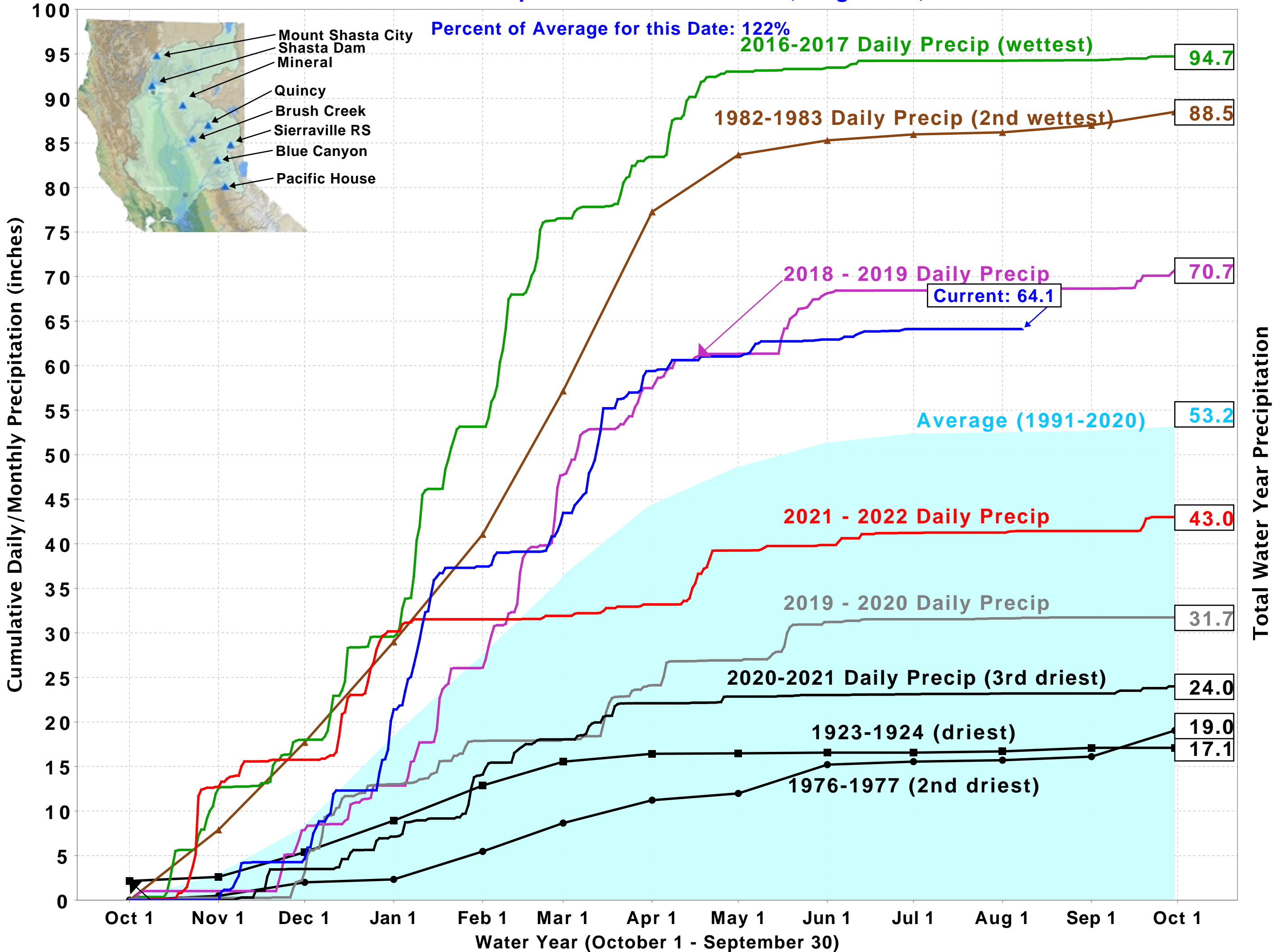


Stockdale West - Before

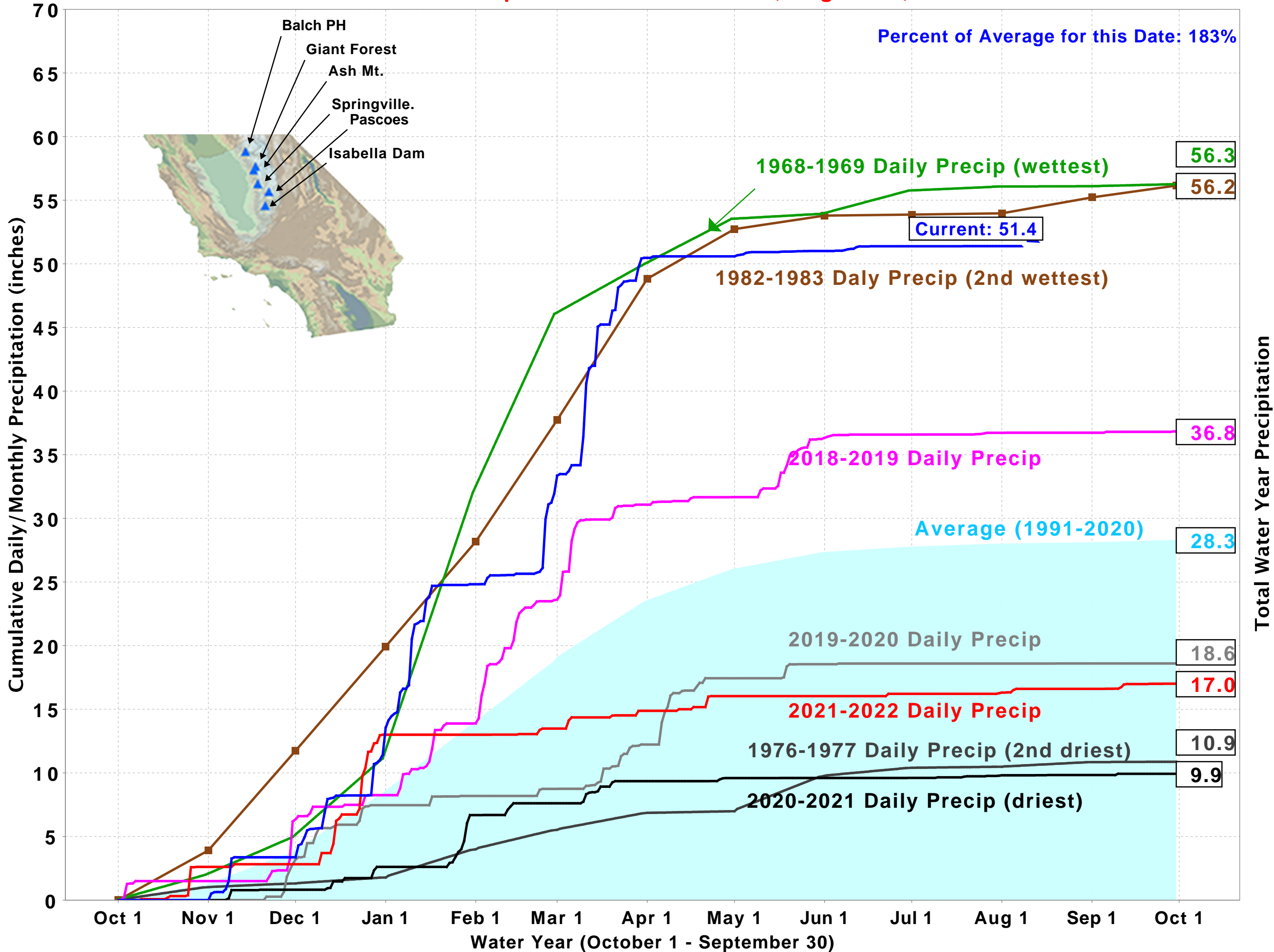


Stockdale West - After

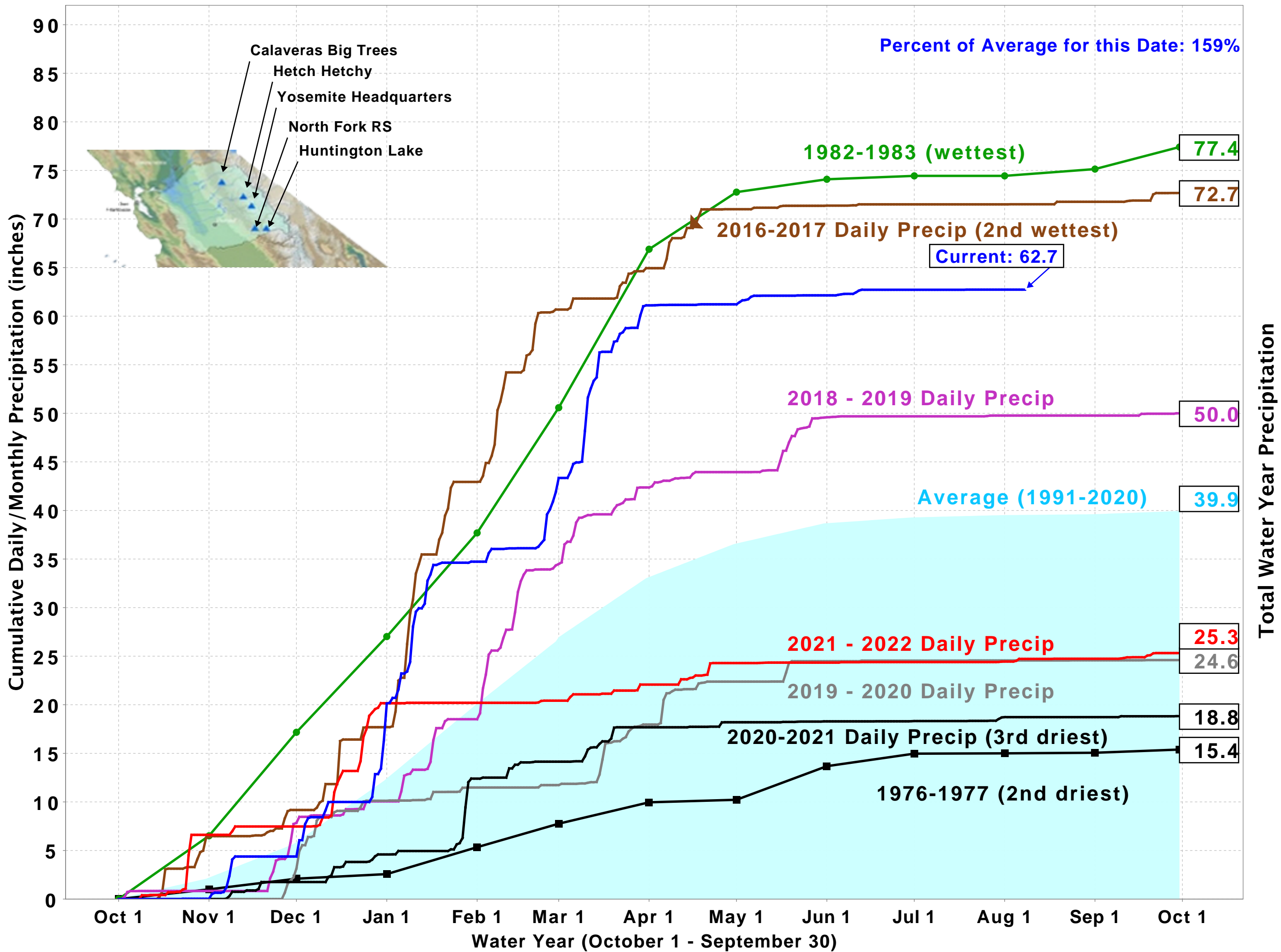
Northern Sierra Precipitation: 8-Station Index, August 08, 2023



Tulare Basin Precipitation: 6-Station Index, August 08, 2023



San Joaquin Precipitation: 5-Station Index, August 08, 2023



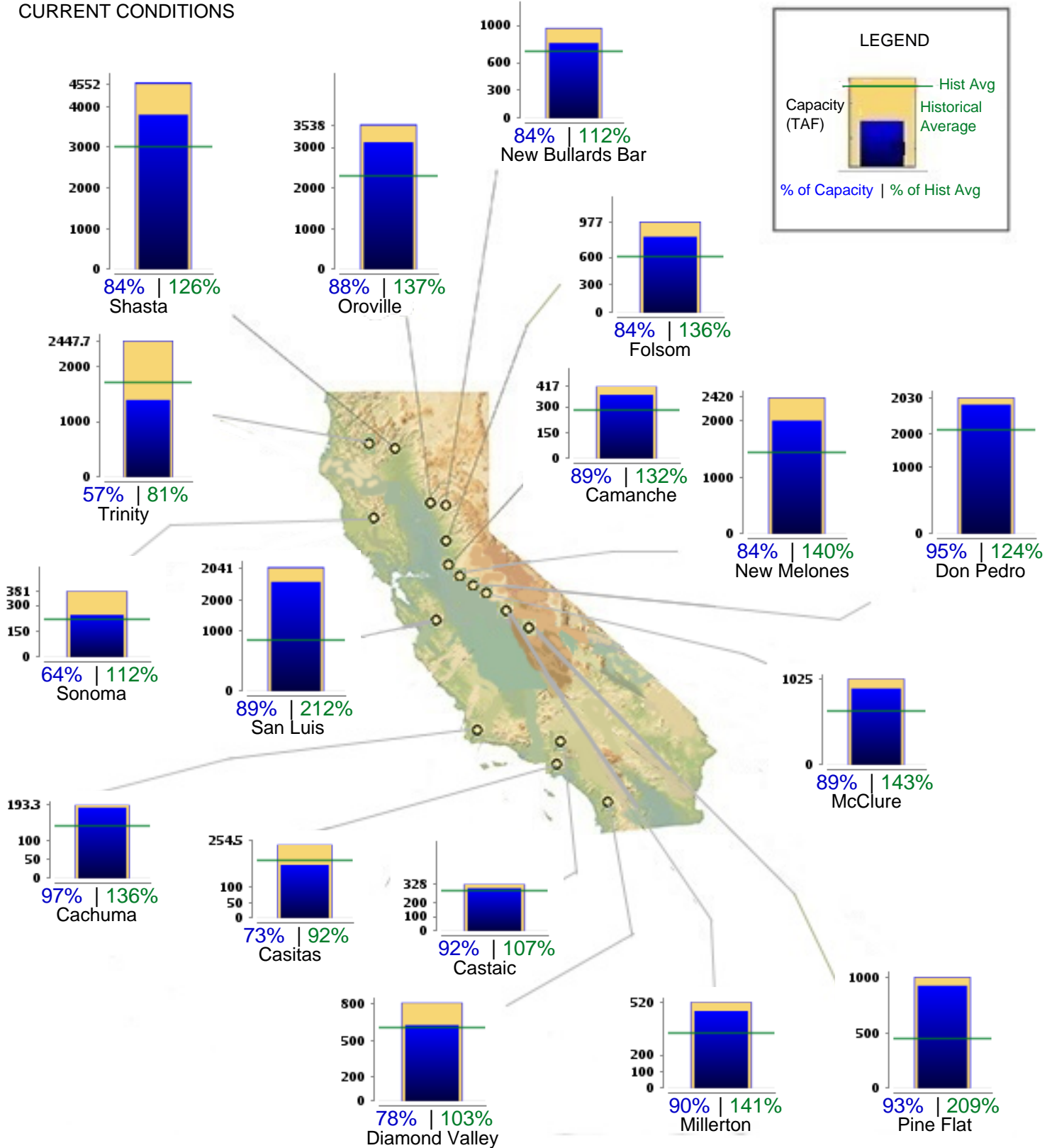


CURRENT RESERVOIR CONDITIONS

CALIFORNIA MAJOR WATER SUPPLY RESERVOIRS

Midnight - August 7, 2023

CURRENT CONDITIONS



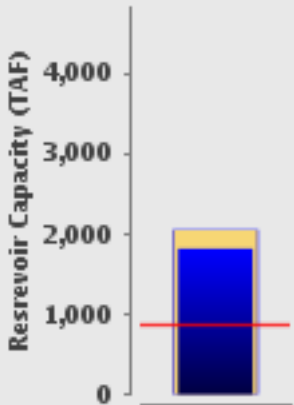


CURRENT RESERVOIR CONDITONS



San Luis Res Conditions

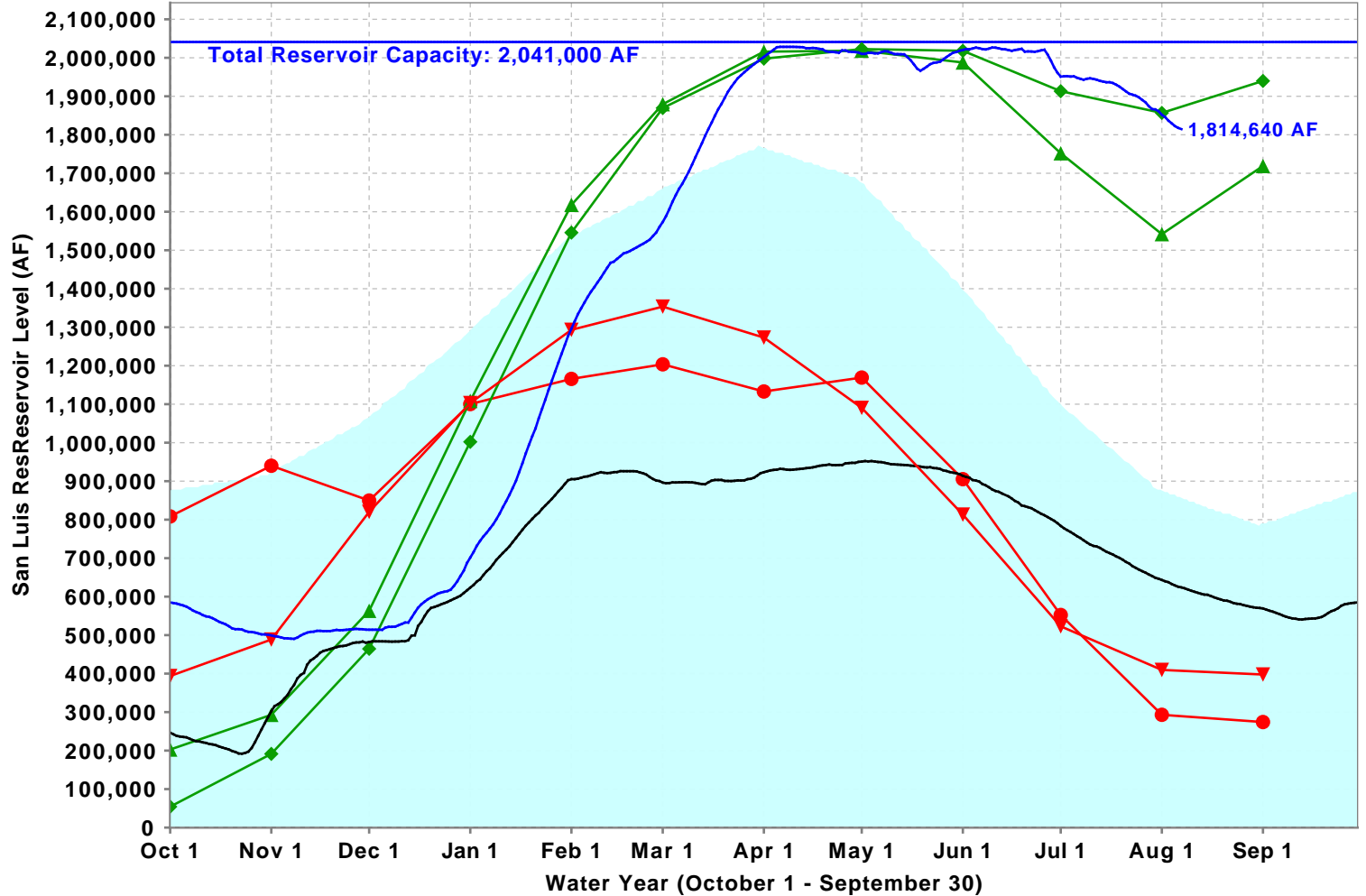
(as of Midnight - August 7, 2023)



Current Level: 1,814,640 AF

89% (Total Capacity) | **212%** (Historical Avg.)

San Luis Res Levels: Various Past Water Years and Current Water Year, Ending At Midnight August 7, 2023



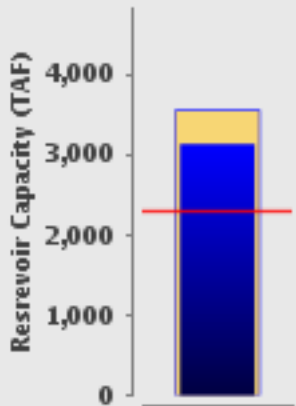


CURRENT RESERVOIR CONDITIONS



Lake Oroville Conditions

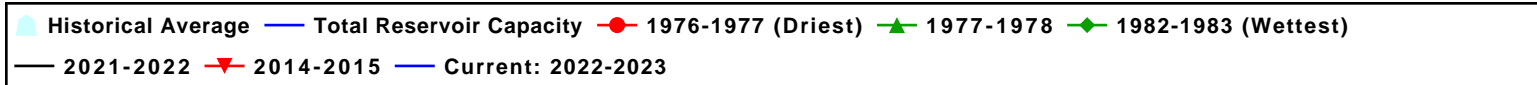
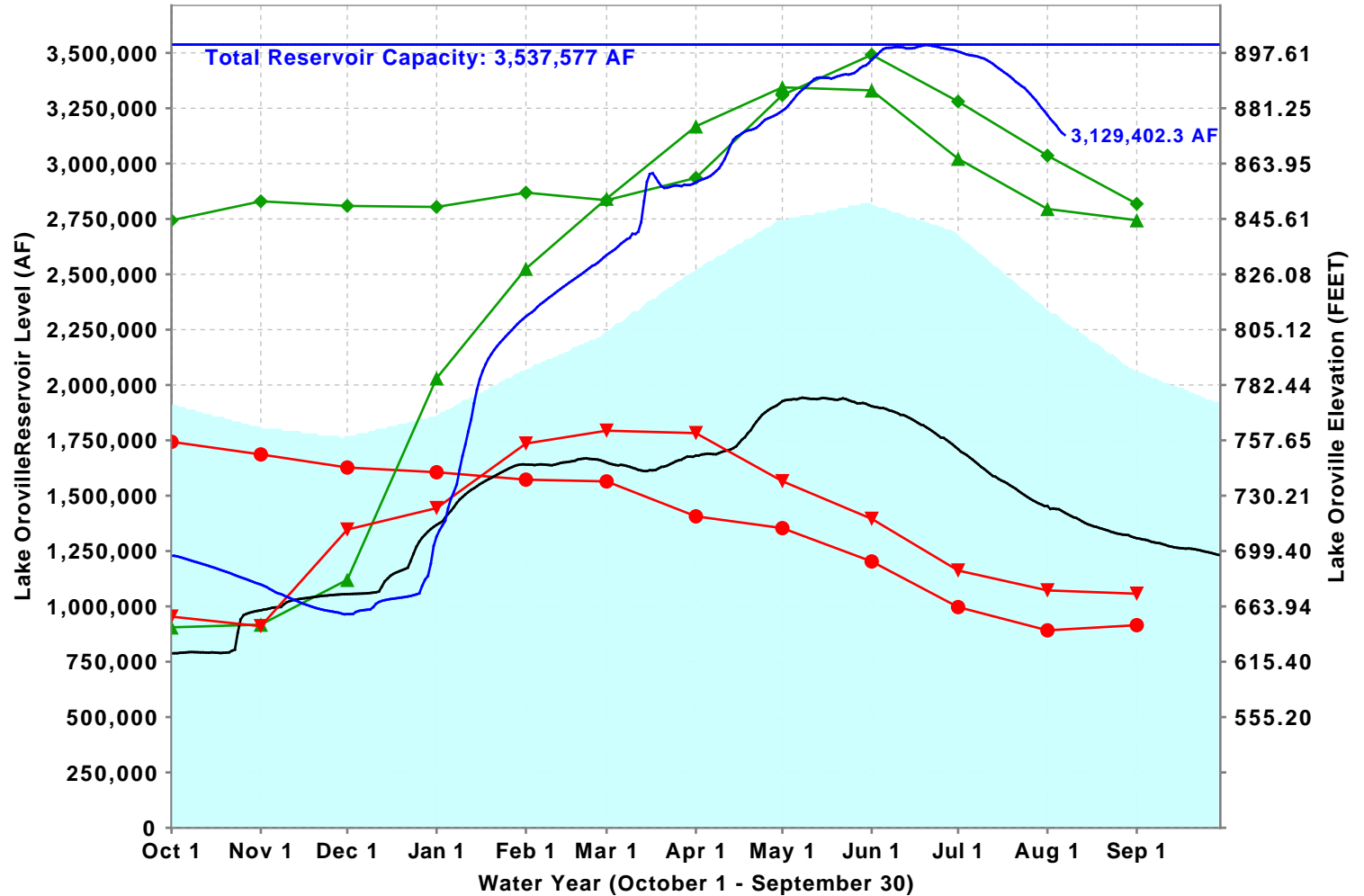
(as of Midnight - August 7, 2023)



Current Level: 3,129,402.3 AF

88% (Total Capacity) | **137%** (Historical Avg.)

Lake Oroville Levels: Various Past Water Years and Current Water Year, Ending At Midnight August 7, 2023



**WATER BANKING AND EXCHANGE AGREEMENT
BETWEEN
ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT
AND
TULARE LAKE BASIN WATER STORAGE DISTRICT
AND LOS ANGELES COUNTY SANITATION DISTRICTS**

This *Water Banking & Exchange Agreement* (“Agreement”) is made and entered into effective as of August __, 2023, by and between Rosedale-Rio Bravo Water Storage District, referred to herein as “Rosedale,” Tulare Lake Basin Water Storage District referred to herein as the “TLBWSD”, and Los Angeles County Sanitation Districts, referred to herein as the “LACSD”. Rosedale, TLBWSD and LACSD may be individually referred to herein as a “Party” and collectively as the “Parties.”

RECITALS

- A. TLBWSD and Rosedale have rights and/or access to California Department of Water Resources’ (DWR) State Water Project (SWP) supplies, including Article 21 supplies, and other high-flow supplies in 2023, and LACSD has rights to certain SWP supplies as a landowner within TLBWSD;
- B. In 2023, LACSD anticipates needing additional recharge capacity for its 2023-2024 SWP supplies to avoid possible loss of said water including possible spill of carry-over water from San Luis Reservoir. Rosedale anticipates having recharge capacity available in its own groundwater recharge and banking program and anticipates having sufficient capacity to take LACSD’s SWP supplies;
- C. Rosedale and LACSD desire to enter into a 2:1 exchange program whereby for every 2 acre-feet of SWP water delivered to Rosedale in-district on LACSD’s behalf (“Recharge Water”), Rosedale shall bank and return 1 acre-foot of water (minus applicable conveyance losses and losses pursuant to terms of the customary Memorandum of Understanding applicable to banking projects in the area) to TLBWSD on behalf of LACSD (“Return Water”) at the point of delivery designated hereunder;
- D. Rosedale and TLBWSD have entered into a point of delivery agreement with the Department of Water Resources (“DWR”) and the Agency to facilitate the delivery of water under this Agreement: and
- E. Rosedale and TLBWSD have determined that the exchange provided for in this Agreement is exempt from the California Environmental Quality Act (“CEQA”) pursuant to the State CEQA Guidelines, including but not limited to Sections 15061(b)(3) and 15301.

Now, therefore, incorporating the foregoing recitals herein, the Parties agree to a water exchange subject to the following terms and conditions:

1. Term: The term of this Agreement shall be from August 1, 2023 through December 31, 2033. The delivery of Recharge Water to Rosedale shall be completed by July 31, 2024 (“Recharge Water Term”). Rosedale’s delivery of Return Water shall be completed by December 31, 2033 (“Termination Date”).

2. Delivery of Recharge Water to Rosedale

a. **Recharge amount:** During the Recharge Water Term, and subject to Rosedale’s determination as to available capacity within Rosedale’s water management programs, Rosedale shall make efforts to take delivery of up to 10,000 acre-feet of Recharge Water as requested by the LACSD. Upon delivery of Recharge Water to Rosedale, Rosedale shall recharge such water in its groundwater banking program and account to the LACSD for an amount of water equal to 1 acre-foot of Return Water for every 2 acre-feet of Recharge Water delivered to the Point of Delivery hereunder; LACSD shall be responsible for all applicable conveyance losses pursuant to terms of the customary Memorandum of Understanding applicable to banking projects in the area, which for the program described in this Agreement are estimated to be 15% (with Return Water minus losses being referred to as the “Final Return Amount”). By way of example, if 1,000 acre-feet of Recharge Water is delivered to Rosedale, Rosedale shall be responsible for banking and returning 425 acre-feet of Return Water to LACSD. Notwithstanding any other provision of this Agreement, any delivery of Recharge Water to Rosedale or any recovery and return of Return Water by Rosedale hereunder shall not, in Rosedale’s sole discretion, impair or impact Rosedale’s current or future water management programs and commitments, or reduce the water supply benefits available to Rosedale from its current or future water management programs or commitments; all such programs and commitments may, in Rosedale’s sole discretion, take precedence over any deliveries made hereunder.

b. **Recharge Point of delivery:** The Point of Delivery for Recharge Water (“Recharge POD”) delivered to Rosedale shall be the Tupman Turnout of the California Aqueduct in Reach 12E. Rosedale shall subsequently convey the Recharge Water within the Cross Valley Canal (“CVC”) to a designated Rosedale turnout off the CVC, likely to be the Rosedale Central Intake Turnout in Pool 3 of the CVC. LACSD is responsible for the Recharge Water (including all losses) until it reaches the Recharge POD.

c. **Scheduling:** Upon execution of this Agreement, LACSD shall promptly submit to Rosedale and TLBWSD an estimated schedule identifying the rates and quantities of Recharge Water it desires to have delivered during the Recharge Water Term. LACSD shall be responsible for submitting schedules (and updates as necessary) to Rosedale and TLBWSD for Recharge Water to be conveyed to Rosedale under this Agreement; Rosedale

shall be responsible for submitting such schedules to the Kern County Water Agency as required.

3. Delivery of Return Water

a. **Return Water amount:** Rosedale shall return an amount of Return Water in the future equal to the Final Return Amount, which shall be determined by the Parties on or before August 31, 2024. Recovery of Return Water by Rosedale hereunder shall be limited to 2,500 acre-feet maximum on an calendar-year basis. In the event that Rosedale has the ability to return more than 2,500 acre-feet of Return Water in a calendar-year, Rosedale shall notify LACSD and TLBWSD in writing of its ability and agreement to meet a modified return amount if LACSD desires.

b. **Return Point of delivery:** The Point of Delivery for Return Water (“Return POD”) shall be the Tupman Turnout of the California Aqueduct in Reach 12E, or at any other point of delivery available to Rosedale or TLBWSD as may be agreed to by the Parties.

c. **Scheduling:** LACSD shall make a request for Return Water no later than April 1 of the year in which it desires that Rosedale return water. Within 30 days of receipt of a request for Return Water, Rosedale shall advise LACSD and TLBWSD whether Rosedale has sufficient capacity within its water management programs available to meet the request.

d. In the event Rosedale is unable to recover and deliver the Final Return Amount by the Termination Date, LACSD at its option and in its sole discretion may elect one of the following by written notice to Rosedale:

- i. Extend the term for delivery of Return Water an additional five (5) years; or
- ii. Require Rosedale to purchase the balance of Return Water not delivered by reimbursing LACSD its actual cost for each acre foot of undelivered Return Water based upon TLBWSD’s 2023 SWP rate (Delta water charge and OMP&R).

4. Costs:

a. **LACSD Costs:** LACSD shall be responsible for the following costs:

- 1) All costs to acquire Recharge Water, if any.
- 2) All transportation costs incurred for conveying Recharge Water to the Recharge POD, including actual energy costs associated with conveying the water within the CVC to the Recharge POD, actual power costs associated with Rosedale conveying the water to recharge facilities (if any), and any CVC excess wheeling costs. Estimated CVC power charge is \$6 per acre foot per CVC pumping plant, with an

estimated three CVC pumping plants required to convey water to the specified Rosedale CVC turnout specified in Section 2.b. If additional CVC pumping plants are required, Rosedale shall confirm that LACSD desires to make such water deliveries and incur additional costs.

- 3) Any excess wheeling charges invoiced to Rosedale by the KCWA for conveyance of Recharge Water or Return Water in the CVC above that which is allocated to Rosedale. Such reimbursement shall be based upon actual charges, if incurred. Rosedale shall confirm that LACSD consents to incur such additional costs prior to making deliveries which result in excess wheeling charges.
- 4) Groundwater extraction well power costs, estimated to be approximately \$125 per acre-foot, for any quantity of water equivalent to amount of Return Water delivered to the Return POD. Rosedale may, at its sole option, provide LACSD with surface water at the Return POD that it has acquired from other sources in exchange for a like amount of LACSD's stored water in the Basin; provided that such exchange water and can be provided at the flow rate and quantity of return water otherwise requested by LACSD. For each AF so exchanged, LACSD shall pay the estimated power costs that would have been incurred if such water had been recovered from the Basin.
- 5) All KCWA transaction fees and any costs associated with any other permits and/or approvals required to implement this Agreement.

b. **Rosedale and TLBWSD Costs:** The program described in this Agreement shall be at no cost to Rosedale or TLBWSD, excepting only the cost of administering this program (e.g., staff costs for recharge and accounting of water supplies, coordinating with DWR/Agency, etc.).

c. **Other Costs:** This Agreement identifies the total anticipated costs of the exchange. Absent express written consent, no party shall be required to pay any costs other than those identified herein.

5. **Miscellaneous Provisions:**

a. **Approvals:** The Parties recognize that the delivery of water under this Agreement is subject to the approval of various agencies and the Parties shall cooperate to secure any and all necessary approvals for implementation of this Agreement. Notwithstanding the foregoing, Rosedale and TLBWSD shall each be responsible for any CEQA compliance that is required to effectuate their respective participation in the transactions contemplated by this Agreement.

b. **Further Performance:** The Parties shall cooperate with, and assist one another, in obtaining any approvals which are necessary to affect the exchange contemplated by this Agreement; in the event the Parties cannot timely obtain the necessary approvals, this Agreement shall become null and void and the Parties shall have no further obligations hereunder. In addition, each Party agrees to perform any further acts and to execute and deliver

any documents which may be reasonably necessary to carry out the provisions of this Agreement.

c. **Indemnification:** Rosedale agrees to indemnify, defend and hold TLBWSD and LACSD free and harmless from all claims, demands, losses, costs, expenses, obligations, liabilities, damages, recoveries and deficiencies, including interest penalties, attorney's fees and costs, that TLBWSD or LACSD may incur as a result of Rosedale's delivery and recharge of Recharge Water past the Recharge POD.

LACSD agrees to indemnify, defend and hold Rosedale and TLBWSD free and harmless from all claims, demands, losses, costs, expenses, obligations, liabilities, damages, recoveries and deficiencies, including interest, penalties, attorney's fees (with counsel selected by Rosedale) and costs, that Rosedale or TLBWSD may incur as a result of the delivery or use of Return Water beyond the Return Water POD, or that arises out of or is related to the delivery of Recharge Water prior to the Recharge POD, or that arises out of or is related to the recovery of the Return Water for LACSD.

d. **Amendments:** This Agreement may be supplemented, amended or modified only by the agreement of the Parties. No supplement, amendment or modification shall be binding unless it is in writing and signed by both Parties.

e. **Ambiguities:** The provisions of this Agreement shall be construed as to their fair meaning, and not for or against any Party based upon the attribution to such Party as the source of the language in question. The Parties agree that California Civil Code section 1654 shall not apply to the interpretation of this Agreement.

f. **Integration:** This Agreement represents the entire understanding of the Parties as to those matters contained herein. No prior oral or written understanding shall be of any force or effect with respect to those matters covered hereunder.

g. **Due Authority:** Each person signing this Agreement represents that he/she has full power and authority to do so, and that his/her signature is legally sufficient to bind the Party for which he/she is signing.

In witness whereof, the parties hereto have caused this Agreement to be executed the day and year first above written.

Rosedale-Rio Bravo Water Storage District

By: _____
Trent Taylor, Water Resources Manager

Tulare Lake Basin Water Storage District

By: _____

Jacob Westra, General Manager

Los Angeles County Sanitation Districts

By: _____

_____, General Manager



AUGUST 2023

RRB ROSEDALE-RIO BRAVO
WATER STORAGE DISTRICT

STRATEGIC PLAN
MONTHLY UPDATE



PURPOSE

TO BE RESPONSIBLE STEWARDS OF WATER, A VALUED RESOURCE



MISSION

BUILDING A SUSTAINABLE WATER SUPPLY TO HELP OUR COMMUNITY THRIVE



VALUES

SUSTAINABILITY
INNOVATION
GRACIOUS
HARD-WORKING
TRUSTWORTHY



STRATEGIC
PRIORITIES

SUSTAINABILITY/RESILIENCY, LONG-TERM HEALTHY PARTNERSHIPS, FINANCIAL STRENGTH, TEAMWORK, INNOVATION/CREATIVITY

1

GOAL #1: DEVELOP AND IMPROVE LONG-TERM PARTNERSHIPS

2

GOAL #2: ACQUIRE OTHER WATER SUPPLIES

3

GOAL #3: DEVELOP A WATER CHARGE TO SUPPORT SGMA IMPLEMENTATION

4

GOAL #4: LIVE OUT AN INTENTIONAL AND FOCUSED PROJECT PLAN FOR MAJOR INITIATIVES

5

GOAL #5: ENSURE THAT KEY RESPONSIBILITIES WITHIN THE AGENCY ARE SUSTAINABLE AND EFFICIENT

GOAL # 1 OBJECTIVES	PRIORITY	STATUS	OWNER
Determine who should be the point person for each partnership.	HIGH	COMPLETE	Dan Trent
Being intentional and thorough about developing relationships.	HIGH	IN PROGRESS	Board Staff
Meet regularly to collaborate on common goals and to get to know our partners personally.	MEDIUM	IN PROGRESS	Board Staff
Be transparent yet strategic.	HIGH	IN PROGRESS	Board Staff

TO: Rosedale-Rio Bravo Water Storage District Board of Directors
Agenda Item 6b.

FROM: Rachelle Echeverria

DATE: August 11, 2023

RE: Consideration of Continuing Emergency Action – Public Contract Code
§22050(c)(1) – Resolution No. 531

Discussion:

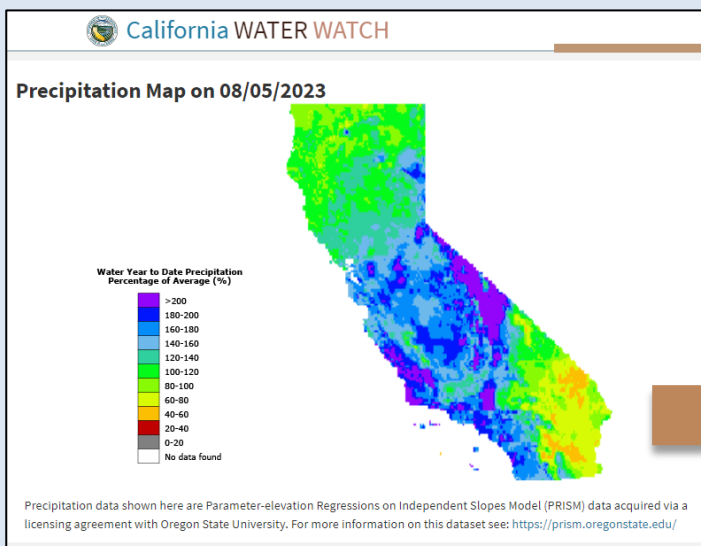
In March of 2023, Governor Newsom released Executive Order N-4-23, which declared a state of emergency due to severe winter storms and flooding within California. The order authorized state agencies to take necessary actions to protect public health, safety, and property, and directed state agencies to coordinate with local governments and assist in the response and recovery efforts. The Executive Order aims to temporarily lift regulations and set clear conditions for diverting flood waters without permits to boost groundwater recharge storage.

Due to this unprecedented wet year, major California reservoirs are nearing capacity and have surpassed historical averages. On April 20, 2023, the Department of Water Resources (DWR) announced an increase in the State Water Project (SWP) allocation from 75% to 100% of requested supplies. Additionally, on August 4, 2023, Governor Newsom signed another Executive Order, N-10-23, to prepare for the next wet season by expediting critical work like levee repairs and debris removal to help protect communities and conserve water. A copy of the executive order can be found [here](#). This action builds on Governor Newsom's series of measures to protect communities from flooding while replenishing California's groundwater and storage.

In light of such conditions, the District must be prepared to protect the interests of water users and farmers within the District. Resolution No. 531 would authorize the General Manager to take all necessary actions to address the Governor's emergencies. Therefore, there is still a need to continue emergency action.

Recommendation:

District staff recommends that the Board of Directors approve a motion to continue the emergency action authorized by Resolution No. 531.



Visit the Department of Water Resources' California WATER WATCH website for the most current local and statewide water conditions by clicking [here](#) or using the QR code below.



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

FROM: Dan W. Bartel

DATE: August 11, 2023

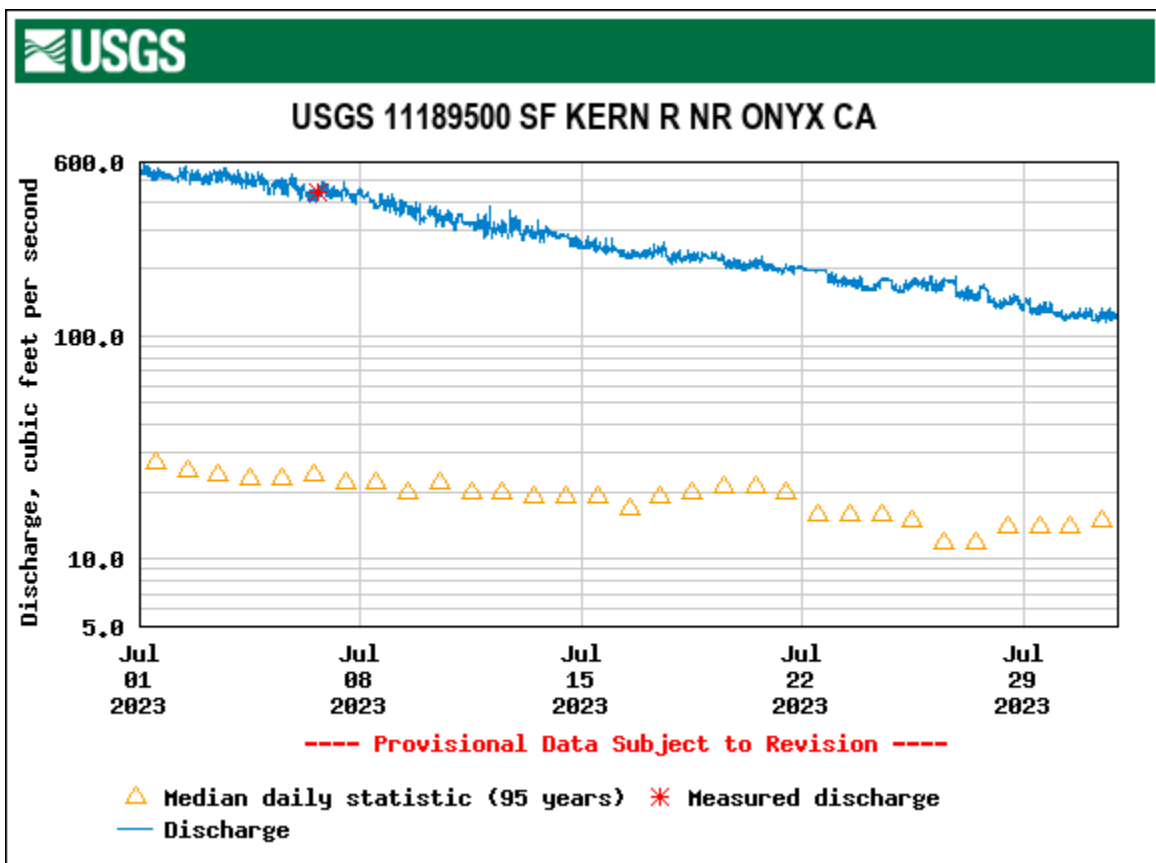
RE: Onyx Ranch Operations Report

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 are now vacant, preparing to close escrow
- Made good progress on fencing projects.
- Resumed project flows on July 5; operations were communicated to Watermaster, COB, and KCWA.

South Fork flows downstream of Bloomfield averaged 284 cfs plus calculated accretions of 7 cfs, for a total average flow of about 291 cfs. Onyx Project was resumed on 7/5 per coordination with KR Watermaster.



Nicoll Head Before/After Flood Repairs



South Fork Kern River Monthly Measurement Report

July-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)			RRBWSO (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		RRBWSO to Isabella	% Redirected	
	Mean Flow	USGS - Onyx	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"	"Net Project Water"		
1	534	464	7			3.0	11.0	3.0			12.2	21.9	0	4.3				7.4	63	Yes	Yes	0	86%	
2	491	420	7			3.0	11.0	3.0			12.0	23.6	0	3.9				7.3	64	Yes	Yes	0	86%	
3	469	545	7			2.5	11.0	2.5			12.0		0	5.3	6.5			7.7	47	Yes	Yes	0	86%	
4	473	394	7			2.5	11.0	2.5					0	5.6	6.5			7.6	36	Yes	Yes	0	86%	
5	509	453	7			2.8	10.0	2.8					43	5.4	7.0			6.6	35	Yes	Yes	37	86%	
6	468	469	7			3.4	10.0	3.4					43	5.2	8.0			6.9	37	Yes	Yes	37	86%	
7	453	425	7			3.0	10.0	3.0					43	4.9	7.0			6.5	34	Yes	Yes	37	86%	
8	450	509	7			3.0	10.0	3.0					43	4.7	6.0			6.5	33	Yes	Yes	37	86%	
9	395	373	7			2.5	9.0	2.5					43	4.4	6.0			6.4	31	Yes	Yes	37	86%	
10	379	383	7			2.5	9.0	2.5					43	4.1	7.0			6.5	32	Yes	Yes	37	86%	
11	323	321	7			2.3	9.0	2.3					43	3.9	7.0			6.3	31	Yes	Yes	37	86%	
12	309	292	7			2.0	9.0	2.0					43	2.5	7.0			6.1	29	Yes	Yes	37	86%	
13	292	299	7			0.5	8.0	0.5					43	1.4	7.0			5.9	23	Yes	Yes	37	86%	
14	275	279	7				8.0						43		7.0			6.4	21	Yes	Yes	37	86%	
15	253	245	7				8.0						43		7.0			7.0	22	Yes	Yes	37	86%	
16	283	306	7			5.0	8.0	5.0					43		7.0			6.7	32	Yes	Yes	37	86%	
17	234	228	7			5.0	8.0	5.0					43		7.0			6.8	32	Yes	Yes	37	86%	
18	226	221	7			4.5	8.0	4.5				18.2	43		7.0			6.3	49	Yes	Yes	37	86%	
19	218	230	7			7.0	10.0	7.0				20.6	43		7.0			6.5	58	Yes	Yes	37	86%	
20	207	204	7			7.0	10.0	7.0					43		7.0	6.1		6.3	43	Yes	Yes	37	86%	
21	200	196	7			7.0	10.0	7.0					43		7.0	5.9		6.1	43	Yes	Yes	37	86%	
22	194	197	7			6.5	8.0	6.5					43		7.0	6.0		5.9	40	Yes	Yes	37	86%	
23	173	175	7			6.5	8.0	6.5					43		7.0	5.7		7.0	41	Yes	Yes	37	86%	
24	170	161	7			6.5	8.0	6.5					43		7.0	6.0		7.1	41	Yes	Yes	37	86%	
25	168	165	7			6.5	7.5	6.5					43		9.0	5.8		7.0	42	Yes	Yes	37	86%	
26	169	176	7			6.5	7.5	6.5					43		9.0	6.0		7.1	43	Yes	Yes	37	86%	
27	155	164	7			6.5	7.5	6.5					43	5.7	8.0			6.9	41	Yes	Yes	37	86%	
28	141	136	7			6.3	7.5	6.2					43	5.5	8.0			6.6	40	Yes	Yes	37	86%	
29	133	129	7			6.3	7.0	6.3					43	5.5	8.0			5.8	39	Yes	Yes	37	86%	
30	123	131	7			6.0	7.0	6.0					43	5.5	7.0			5.8	37	Yes	Yes	37	86%	
31	123	117	7			6.0	7.0	6.0					43	5.4	7.0			5.5	37	Yes	Yes	37	86%	
SFD	8,989	8,807	217		0	132	273	132	0	0	36	46	39	1158	83	208	41	204	1,194	0	194	996		
AF	17,829	17,469	430		0	262	541	262	0	0	72	90	77	2,297	165	413	82	405	2,368	0	385	1,975		
		284.1	7.0				803						262			165		495		39		9.70	29.5	

Note: Redirected Historic Irrigation Demand Limit = 43
 Coordination with KRWM, RRB resumed Onyx Project operations 7/5 and cut irrigation 7/3 - 7/4
 Cottonwood via Landers Head Miller via Mill Head Nicoll deliveries to Boone field (non-project)

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

2023

Well Name	DATE	Depth to Water (ft)	Notes
Onyx Store - Domestic	7/28/2023	38.8	
Ranch HQ - Domestic	7/28/2023	55	Pump on
Landers Sand - Old Ag Well	7/28/2023	15	
Onyx Store - Old Ag Well	7/28/2023	16.6	
Mack Well	7/28/2023	22	
Nicoll Field - Old Ag Well	7/28/2023	14.1	
Mack Field West - Domestic	7/28/2023	13.3	
Gibboney-2 Piezo	7/28/2023	7.7	
Gibboney-3 Piezo	7/28/2023	6.7	
Boone Piezo	7/28/2023	5.3	
Lieb Piezo	7/28/2023	7.6	
Pruitt Piezo	7/28/2023	10.7	
Scodie Well	7/28/2023	20	
Pruitt Well	7/28/2023	12.8	
Nicoll Well	7/28/2023	14.7	
Mack Piezo	7/28/2023	16.1	
West Onyx Piezo (Top of pipe to the concrete 1.9ft)	7/28/2023	15	Pump on
East Onyx Piezo (Top of pipe to the concrete 1.4ft)	7/28/2023	19.8	
Smith Piezo #1	7/28/2023	14.8	
Smith Piezo #2	7/28/2023	17.3	
Smith Piezo #3	7/28/2023	13.7	

Damage Inventory

Disaster Number:		4699DR		Program Delivery Manager (PDMG) Name:				Trawn Mitchell								
Applicant Name:		Rosedale-Rio Bravo Water Storage District		Program Delivery Manager (PDMG) Phone:				(256) 419-4011								
Applicant FIPS:		029-UT4EY-00		Program Delivery Manager (PDMG) Email:				trawn.mitchell@fema.dhs.gov								
Applicant Point of Contact Name:		Rachelle Echeverria														
Applicant Point of Contact Phone:		(661) 589-6045														
Applicant Point of Contact Email:		recheverria@rrbwsd.com														
Category	Name of damage/facility	Address 1	Address 2	City	State	Zip	Latitude	Longitude	Describe Damage	Primary Cause of Damage	Approx. Cost	% Work Complete	Labor Type	Has received PA grant(s) on this facility in a past?	Applicant priority	
D	Smith Ditch Repair	849 Allen Road		Bakersfield	CA	93314	35.72123 35.71748	-118.17779 -118.17891	March 2023 storms and flooding damaged the Smith Ditch. Damages included areas of the ditch that were breached and undermined by flood flows. The damage resulted in the obstruction of downstream flows necessary to irrigate the Smith Ranch. Repairs involved excavating sediment and debris deposited by floods and backfilling the Smith Ditch breach using a backhoe, dump truck, and a small dozer. Sediment was removed from an approximately 200 ft by 50 ft section of the Smith Ditch. Sediment was removed from an approximately 1600 ft by 5ft section of the Smith Ditch. The sediment was backfilled into the breached Smith Ditch area approximately 350ft by 100ft. Approximately 593 cubic yards of sediment were removed.	Flood	\$49,142	100%	FA	N	Low	
D	Landers Ditch Repair	849 Allen Road		Bakersfield	CA	93314	35.70353 35.69663	-118.21098 -118.22789	March 2023 storms and flooding damaged the Landers Ditch. Damages included areas of the structure that were undermined and washed out by flood flows. The damage resulted in uncontrolled flooding down the irrigation ditch, which lead to road damage and the inability to make agricultural diversions down the irrigation ditch. Repairs involved the removal of sediment and debris and backfilling and compacting sediment into the inundated area using a backhoe and a small dozer. Repairs also included the addition of rip rap and sand slurry to reinforce the structure. Repairs included an area of about 150 ft by 150ft near the headworks and about 2700 ft by 5ft of Ditch repair. Approximately 1200 cubic yards of sediment were removed (about half the Landers Ditch length).	Flood	\$36,954	100%	FA	N	Low	
D	Nicoll Ditch Repair	849 Allen Road		Bakersfield	CA	93314	35.69493	-118.22634	March 2023 storms and flooding damaged the Nicoll Ditch. The damage resulted from uncontrolled flooding down the irrigation ditch, which lead to road damage and the inability to make agricultural diversions down the irrigation ditch. Repairs involved backfilling and compacting sediment into the inundated area using a backhoe and a small dozer. Repairs also included the removal of sediment and debris. Repairs included an area of approximately 3,000ft by 50ft. Approximately 1,333 cubic yards of sediment were removed from the Nicoll Ditch, starting from Doyle Ranch road to the Nicoll headworks.	Flood	\$35,124	100%	FA	N	Low	
D	Nicoll Head Repair	849 Allen Road		Bakersfield	CA	93314	35.69516	-118.22563	March 2023 storms and flooding damaged the intake area to the Nicoll Head Irrigation Ditch. The flooding event has altered flow away from the Nicoll Head, causing low flows to reach the Nicoll Head and making it impossible to make agricultural irrigation demands. Repairs include moving dirt, sediment, and debris in order to restore flows to the Nicoll Head. The repair area covers approximately 2,900 square yards. 80 yards of native rock/boulders (rip-rap) were utilized to stabilize the area. Existing sediment, dirt, and debris were also used to stabilize the area; nothing was removed from the repair site.	Flood	\$24,426	100%	C	N	Low	
Total											\$145,647					

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

FROM: Dan Bartel and Markus Nygren

DATE: August 11, 2023

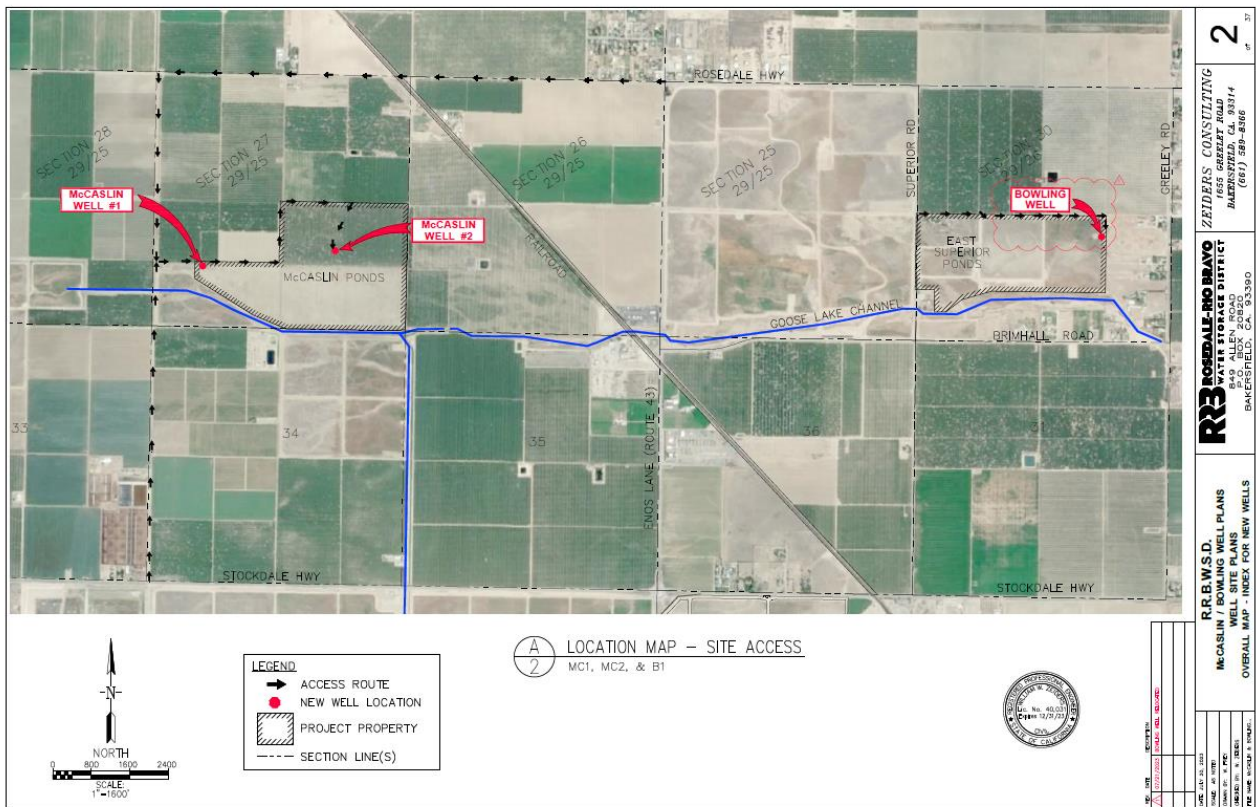
RE: Improvement Projects

Discussion:

Bowling and McCaslin Recovery Well Project

Bidding of the McCaslin / Bowling Recovery Well Project

Three additional recovery wells are to be drilled and completed, two at the McCaslin Recharge site, and one well at the Bowling Recharge site in East Superior. The District is receiving two million dollars as part of the WaterSMART Drought Resiliency 2020 award to help supplement the costs. Supporting documentation for the well bid and the consulting proposal are attached.



Recommendation

Authorize staff to execute agreement with Zim Industries, Inc. dba for \$3,470,494.00

Authorize staff to execute agreement with Thomas Harder for final well design for \$54,940.00

Bid Results

McCaslin / Bowling Well Drilling & Equipping

Company	Bid Amount
BWP	3,470,494.00

McCasin / Bowling Well Drilling and Equipping Bid Abstract									
Bid Date: 08/03/2023		McCasin (2 wells)				Stockdale East 2019 (2 wells)			
General	Line Item	Description	Quantity	Unit	Unit Price BWP	Amount BWP	Unit Price BWP	Amount BWP	
	1	Mobilization	1	EA	\$25,000.00	\$25,000.00	\$25,000.00	\$25,000.00	
	2	Demobilization	1	EA	\$25,000.00	\$25,000.00	\$25,000.00	\$25,000.00	
	3	Develop and Provide Water Supply	1	EA	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	
	4	Environmental Compliance and Permitting	1	EA	\$2,500.00	\$2,500.00	\$2,500.00	\$2,500.00	
	5	Prepare, Maintain and Restore Access Routes	1	EA	\$25,000.00	\$2,500.00	\$2,500.00	\$2,500.00	
	General Subtotal					\$60,000.00		\$60,000.00	
Schedule A-1	Line Item	Description	Quantity	Unit	Unit Price BWP (2023)	Amount BWP	Unit Price BWP	Amount BWP	
	6	Well Move-In, Move-Out, and Clean-up	1	EA	\$25,000.00	\$25,000.00	\$15,000.00	\$15,000.00	
	7	Drill Hole to 42-inch min. Diameter for Conductor Pipe	50	LF	\$200.00	\$10,000.00	\$200.00	\$10,000.00	
	8	Furnish, Install and Grout 36-inch Diameter Conductor Pipe	50	LF	\$300.00	\$15,000.00	\$300.00	\$15,000.00	
	9	Drill Pilot Hole to 18-inch max. Diameter	740	LF	\$80.00	\$59,200.00	\$40.00	\$29,600.00	
	10	Perform E-log of Well	1	EA	\$6,122.00	\$6,122.00	\$6,121.43	\$6,121.43	
	11	Perform Caliper Log of Well	1	EA	\$1,850.00	\$1,850.00	\$1,850.00	\$1,850.00	
	12	Ream Pilot Hole to 32-inch min. Diameter (for 20" casing)	740	LF	\$80.00	\$59,200.00	\$40.00	\$29,600.00	
	13	Furnish and Install 20-inch Diameter HSLA – Corten Unperforated Well Casing	425	LF	\$300.00	\$127,500.00	\$244.53	\$103,925.25	
	14	Furnish and Install 20-inch Diameter HSLA – Corten Perforated Well Casing, Roscoe Moss Fulflo, 0.090"	345	LF	\$434.00	\$149,730.00	\$336.41	\$116,061.45	
	15	Furnish and Install Gravel Envelope	680	LF	\$50.00	\$34,000.00	\$30.00	\$20,400.00	
	16	Placement of Cement Grout Annular Seal	100	LF	\$70.00	\$7,000.00	\$50.00	\$5,000.00	
	17	Furnish and Install 3" Gravel Tube	115	LF	\$26.00	\$2,990.00	\$10.79	\$1,240.85	
	18	Furnish and Install 3" Air Vent Pipe	5	EA	\$100.00	\$500.00	\$500.00	\$2,500.00	
	19	Furnish and Install 3" Sounding Tube/Camera Port	538	LF	\$55.00	\$29,590.00	\$33.16	\$17,840.08	
	20	Swab and Airlift Well	48	HR	\$350.00	\$16,800.00	\$350.00	\$16,800.00	
	21	Develop Well – Pumping and Surging	60	HR	\$300.00	\$18,000.00	\$300.00	\$18,000.00	
	22	Test Pump of Well – Step-Drawdown and Continuous	36	HR	\$300.00	\$10,800.00	\$300.00	\$10,800.00	
	23	Video Log of Well	1	EA	\$1,679.00	\$1,679.00	\$1,679.00	\$1,679.00	
	24	Alignment/Deviation Survey	1	EA	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00	
	25	Gyroscopic Survey	1	EA	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00	
	26	Dynamic Flow Meter Survey	1	EA	\$4,222.00	\$4,222.00	\$4,221.43	\$4,221.43	
	27	Chemical Development	345	LF	\$5.00	\$1,725.00	\$5.00	\$1,725.00	
	28	Well Disinfection and Capping	1	EA	\$1,000.00	\$1,000.00	\$1,000.00	\$1,000.00	
		New Wells Subtotal					\$585,908.00		\$432,364.49
		New Wells Subtotal X 2					\$1,171,816.00		\$864,728.98
	29	Zone Testing	4	EA	\$15,000.00	\$60,000.00			
		Two Wells Subtotal plus cost of item 29 (Sub-1)					\$1,231,816.00		\$864,728.98

Schedule A-1 (Drilling)	Line Item	Description	Quantity	Bowling Well		Unit Price BWP	Amount BWP
				Unit	Unit Price BWP (2023)		
	30	Well Move-In, Move-Out, and Clean-up	1	EA	\$25,000.00	\$25,000.00	
	31	Drill Hole to 42-inch min. Diameter for Conductor Pipe	50	LF	\$200.00	\$10,000.00	
	32	Furnish, Install and Grout 36-inch Diameter Conductor Pipe	50	LF	\$300.00	\$15,000.00	
	33	Drill Pilot Hole to 18-inch max. Diameter	660	LF	\$80.00	\$52,800.00	
	34	Perform E-log of Well	1	EA	\$6,122.00	\$6,122.00	
	35	Perform Caliper Log of Well	1	EA	\$1,850.00	\$1,850.00	
	36	Ream Pilot Hole to 32-inch min. Diameter (for 20" casing)	660	LF	\$80.00	\$52,800.00	
	37	Furnish and Install 20-inch Diameter HSLA – Corten Unperforated Well Casing	430	LF	\$300.00	\$129,000.00	
	38	Furnish and Install 20-inch Diameter HSLA – Corten Perforated Well Casing, Roscoe Moss Fulflo, 0.090"	260	LF	\$434.00	\$112,840.00	
	39	Furnish and Install Gravel Envelope	410	LF	\$50.00	\$20,500.00	
	40	Placement of Cement Grout Annular Seal	300	LF	\$70.00	\$21,000.00	
	41	Furnish and Install 3" Gravel Tube	315	LF	\$26.00	\$8,190.00	
	42	Furnish and Install 3" Air Vent Pipe	5	EA	\$100.00	\$500.00	
	43	Furnish and Install 3" Sounding Tube/Camera Port	600	LF	\$55.00	\$33,000.00	
	44	Swab and Airlift Well	48	HR	\$350.00	\$16,800.00	
	45	Develop Well – Pumping and Surging	60	HR	\$300.00	\$18,000.00	
	46	Test Pump of Well – Step-Drawdown and Continuous	36	HR	\$300.00	\$10,800.00	
	47	Video Log of Well	1	EA	\$1,679.00	\$1,679.00	
	48	Alignment/Deviation Survey	1	EA	\$2,000.00	\$2,000.00	
	49	Gyroscopic Survey	1	EA	\$2,000.00	\$2,000.00	
	50	Dynamic Flow Meter Survey	1	EA	\$4,222.00	\$4,222.00	
	51	Chemical Development	260	LF	\$5.00	\$1,300.00	
	52	Well Disinfection and Capping	1	EA	\$1,000.00	\$1,000.00	
	53	Existing Well Abandonement	400	LF	\$50.00	\$20,000.00	
		Bowling Wells Subtotal plus item 53 (Sub 2)				\$566,403.00	
		General Subtotal				\$60,000.00	
		MC1 & MC2 Subtotal (sub-1)				\$1,231,816.00	
		B1 Subtotal (sub-2)				\$566,403.00	
		Total Drilling Bid				\$1,858,219.00	\$864,728.98

Equipping	57	12' x 12' Pedestal-styule Concrete Pump Foundation	3	EA	\$7,500.00	\$22,500.00	\$7,500.00	\$22,500.00
	58	Furnish and install 350 HP Well Pumping Unit with Electric Motor	3	EA	\$42,794.00	\$128,382.00	\$37,041.00	\$111,123.00
	59	Furnish and Install 12-Inch Steel Column Tube and Shaft	1620	LF	\$190.00	\$307,800.00	\$100.00	\$162,000.00
	60	Furnish and Install Vertical Turbine Pumping Unit	3	EA	\$63,654.00	\$190,962.00	\$43,073.00	\$129,219.00
	61	Furnish and Install Suction Extension	3	EA	\$1,500.00	\$4,500.00	\$1,250.00	\$3,750.00
	62	Furnish and Install 12-inch steel discharge piping assembly, complete with valves, flowmeters, airvents couplings, and all other appurtenances at well site (details A-19 and B-19)	3	EA	\$27,405.00	\$82,215.00	\$27,405.00	\$82,215.00
	63	Furnish and install panel shade structure	3	EA	\$8,500.00	\$25,500.00	\$8,500.00	\$25,500.00
	64	furnish and install panel security structure	3	EA	\$1,500.00	\$4,500.00	\$1,500.00	\$4,500.00
	65	Furnish and Install Well Enclosure	3	EA	\$25,972.00	\$77,916.00	\$19,130.00	\$57,390.00
66	Furnish and install electrical service (via pad mount transformer), metering panel, VFD control panel, instrumentation & monitoring panel, all wiring and controls, and all other electrical appurtenances at well site	3	EA	\$256,000.00	\$768,000.00	\$125,000.00	\$375,000.00	
		Wells Equipping Total				\$1,612,275.00		\$973,197.00
Optional items and adds/deducts	54	Furnish and Install 20-inch Diameter Well Compression Section	1	EA	\$14,582.00	\$14,582.00	EA	\$10,837.74
	55	Well Borehole Abandonment	-	LF	\$12,750.00	\$12,750.00	LF	\$12,750.00
	56	Idle Time (for additional hours not included in the bid per the Specifications)	-	HR	\$350.00	\$350.00	HR	\$350.00
	67	Security Poly & Light (Detail C-33)	1	EA	\$5,000.00	\$5,000.00	EA	\$8,642.00
Grand total		Total bid Drilling				\$1,858,219.00		\$864,728.98
		Drilling per well				\$619,406.33		\$432,364.49
		Total bid Equipping				\$1,612,275.00		\$973,197.00
		Equipping per well				\$537,425.00		\$486,598.50
		Grand Total				\$3,470,494.00		\$1,837,925.98

July 25, 2022

Mr. Dan Bartel
Rosedale-Rio Bravo Water Storage District
P.O. Box 20820
Bakersfield, CA 93390

**Re: Proposed Scope of Work and Cost Estimate for Data Collection and Well Design –
Two McCaslin Wells and One Bowling Well**

Dear Mr. Bartel,

This letter outlines Thomas Harder & Co.'s (TH&Co's) proposed scope of work and cost estimate to provide data collection and well design services for three new production wells for Rosedale-Rio Bravo Water Storage District's (the District's) McCaslin and Bowling Wells Project (the Project) near Bakersfield, California. TH&Co's scope of work has been structured to support Zeiders Consulting and the District's staff in the design, construction and testing of the new wells. TH&Co's primary tasks include:

- Borehole Data Analysis
- Well Design
- Consultation with Field Inspector during Well Development
- Analysis of Pumping Test Data and Recommendations for Design Discharge Rate and Pump Setting

The budget for this scope of work is based on the following assumptions:

- The pilot boreholes for each well will be drilled to total depths of 800 ft below ground surface (ft bgs).
- Isolated aquifer zone testing will be conducted in the pilot borehole for one well.
- Onsite inspection and construction management during well drilling, construction and testing will be conducted by Zeiders Consulting and/or District staff as-needed.

Our proposed detailed scope of work is as follows:

Scope of Work

Task 1 – Borehole Data Analysis

TH&Co will analyze data collected during the drilling and testing of the pilot boreholes for the three wells in order to develop recommendations for isolated aquifer zone testing (one location) and final well design. It is understood that either Zeiders Consulting and/or District staff will deliver all borehole soil samples and geophysical logs to the TH&Co office located in Anaheim, California for analysis. Composite soil samples from each 10-ft sample interval should be delivered in one-gallon freezer bags labeled with the well name, date the sample was collected, and the depth interval for the sample.

Subtask 1.1 – Log and Analyze Soil Samples Collected from the Conductor and Pilot Boreholes

After receiving the conductor casing and pilot borehole soil samples, TH&Co will log the drill cuttings and identify the depth, thickness and characteristics of aquifers for well screen design. All cuttings will be logged in accordance with the Unified Soil Classification System (USCS). The completed lithologic log will be entered into logging software (LogPlot™) for presentation and submittal to the District within two weeks after receipt of the samples. The cost estimate for this task assumes each pilot borehole is 800-ft deep.

Subtask 1.2 – Analyze Borehole Geophysical Logs

TH&Co will review the pilot borehole geophysical logs provided by Zeiders Consulting or the District in order to inform selection of samples for sieve analyses and identify aquifers to target for the well design. It is anticipated that a full suite of geophysical logs will be obtained including resistivity (short and long-normal), guard or lateralog, gamma ray, spontaneous potential, and sonic logs (Scale of 1 inch = 50 ft).

Subtask 1.3 – Sieve Analysis of Formation Samples

TH&Co will conduct sieve analysis of soil samples from selected depth intervals in order to design the filter pack for the well. Selection of the filter pack will determine the slot size for the well screen. It is assumed for cost estimating purposes that up to eight samples will be analyzed for each well. The results of the sieve analyses will be presented in the Recommended Well Design Letters (Task 2).



Task 2 – Recommended Well Design Letters

Based on analysis of soil samples and geophysical logs from the pilot boreholes, TH&Co will prepare letter reports describing the recommended well designs for each well. The reports will include the results of sieve analyses and recommendations for the filter pack gradation, screen slot size, and screened intervals for the wells. The draft recommended well design will be submitted to the District for review and approval within three days of receipt of the samples and geophysical logs. A well design conference call for each well is included in Task 2, as needed. Upon approval, TH&Co will finalize the well design and submit it to the District for directing the drilling contractor and/or Zeiders Consulting to procure the well casing and filter pack.

It is assumed for cost estimating purposes that one draft version of the recommended well design letter for each of the two wells will be submitted to the District in pdf format via email for review and comment. One final version of for each of the two wells will be submitted after addressing comments (electronic submittal only).

Task 3 – Consultation with Field Inspector during Well Development

This scope of work and cost estimate is based on the assumption that field inspection and monitoring of well development will be conducted by Zeiders Consulting and/or District Staff. Well development will include initial development by airlift and swab and final development by pumping. TH&Co will provide as-needed consultation to the field inspector to track the progress of development and determine the point at which development is complete. The cost estimate assumes up to 10 hours of consultation during well development for both wells.

Task 4 – Pumping Test Support

TH&Co will provide coordination, support and data analysis during the pumping tests for each well. It is assumed that both step-drawdown and constant rate pumping tests will be conducted for each well. It is further assumed that Zeiders Consulting and/or District staff will provide the pumping test data (e.g. pumping rate and drawdown) electronically to TH&Co upon completion of the tests.

Subtask 4.1 –Support for Step-Drawdown and Constant Rate Pumping Tests

TH&Co will provide support to Zeiders Consulting and/or the District staff during pumping tests for each well. This task will include:

- Review of the pumping development data and recommendations for pumping rates for the step-drawdown tests,



- Rental and installation of pressure transducers in the pumping well and one observation well, to be installed one week before the tests and removed one week after completion of the tests,
-

The budget for this task assumes that the pumping tests for the two wells do not overlap and therefore the budget includes separate rental and installation costs for each well.

Subtask 4.2 – Analysis of Pumping Test Data

TH&Co will analyze the pumping test data from each of the two wells. The purpose of the step-drawdown test is to assess the specific capacity and efficiency of the well as criteria for determining an optimum pumping rate and pump setting. Specific capacity and efficiency can be assessed through an evaluation of the different components of head loss as groundwater enters the well. The constant rate tests will provide information on aquifer parameters (transmissivity) and long-term drawdown from pumping the well at a discharge rate close to the planned pump design rate.

TH&Co will create the following charts using the pumping test data. These charts will be included in the Pump Design Letter:

- Step-Drawdown Test Chart; drawdown over time
- Constant Rate Pumping Test Chart; drawdown over time
- Specific Capacity and Well Efficiency Diagram; drawdown over discharge rate
- Distance Drawdown Chart; drawdown over distance from pumping well

The specific capacity and well efficiency of both of the wells will be used for the pump design letter.

Subtask 4.4 – Pump Design Letters

Upon completion of the analysis of the pumping test data, TH&Co will prepare letter reports for each well that present recommendations for the design discharge rates and pump settings. The reports will include:

- Pumping test charts showing the analysis and results of pumping test data.
- Recommendations for design discharge rate and pump setting.

It is assumed for cost estimating purposes that one draft version of the recommended discharge rate and pump setting report for each of the two wells will be submitted to the District in pdf



format via email for review and comment. One final version will be submitted after addressing comments for each of the two wells (electronic submittal only).

Cost Estimate

The total estimated cost to perform Tasks 1 through 4 described above is \$54,940 as detailed in Table 1.

I appreciate the opportunity to provide consulting services to Rosedale-Rio Bravo Water Storage District. If you have any questions, don't hesitate to contact me at (714) 779-3875.

Sincerely,



Thomas Harder, P.G., C.HG.
Principal Hydrogeologist



**Cost Estimate for Hydrogeological Services
Two McCaslin Wells and One Bowling Well**

Task	Sub task	Description	Principal Hydro-geologist \$220/hr	Project Hydro-geologist \$135/hr	Staff Hydro-geologist \$115/hr	Graphics \$100/hr	Clerical \$80/hr	Total Labor	Reimbursable Expenses ¹	Total Cost
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1 Borehole Data Analysis

	1.1	Log and Analyze Soil Samples Collected from the Pilot Borehole (three wells; assume 800 ft deep each)	3	6	72			\$ 9,750	\$ 0	\$ 9,750
	1.2	Analyze Borehole Geophysics (three wells)	6	6				\$ 2,130	\$ 0	\$ 2,130
	1.3	Sieve Analysis of Formation Samples (Assumes 8 samples per well)			30			\$ 3,450	\$ 0	\$ 3,450
Subtotal Task 1								\$ 15,330	\$ 0	\$ 15,330

2 Recommended Well Design Letters^{2,3}

		Preparation of Two Recommended Well Design Letters; Includes One Conference Call per Well	6	36		18	6	\$ 8,460	\$ 0	\$ 8,460
Subtotal Task 2								\$ 8,460	\$ 0	\$ 8,460

3 Consultation with Field Inspector During Well Development

		Consultation with Field Inspector During Well Development	6	15				\$ 3,345	\$ 0	\$ 3,345
Subtotal Task 3								\$ 3,345	\$ 0	\$ 3,345

**Cost Estimate for Hydrogeological Services
Two McCaslin Wells and One Bowling Well**

Task	Sub task	Description	Principal Hydro-geologist \$220/hr	Project Hydro-geologist \$135/hr	Staff Hydro-geologist \$115/hr	Graphics \$100/hr	Clerical \$80/hr	Total Labor	Reimbursable Expenses ¹	Total Cost
------	----------	-------------	------------------------------------	----------------------------------	--------------------------------	-------------------	------------------	-------------	------------------------------------	------------

4 Pumping Test Support

	4.1	Support for Step-Drawdown and Constant Rate Pumping Tests; includes installation of transducers in the pumping well and a nearby well ⁴	4	4	54			\$ 7,630	\$ 4,050	\$ 11,680
	4.2	Analysis of Pumping Test Data	3	9	48			\$ 7,395		\$ 7,395
	4.3	Pump Design Letters ⁵	6	36	18		6	\$ 8,730		\$ 8,730
Subtotal Task 4								\$ 23,755	\$ 4,050	\$ 27,805
Total for Tasks 1 through 4								\$ 50,890	\$ 4,050	\$ 54,940

Notes:

- ¹ Reimbursable expenses include driving mileage and transducer rental costs.
- ² Assumes participation in 3 well design conference calls (1hr/call).
- ³ Includes preparation of one draft version (electronic submittal only) and one final version of each recommend well design letter (electronic submittal only).
- ⁴ Assumes two transducers for two weeks for each well; assumes separate installation/removal costs for each well.
- ⁵ Includes preparation of one draft version (electronic submittal only) and one final version of each pump design letter (electronic submittal only).

GROUNDWATER BANK JOINT POWERS AUTHORITY

PLANS FOR CONSTRUCTION OF THE STOCKDALE NORTH RECHARGE BASIN FACILITIES



BENCH MARK

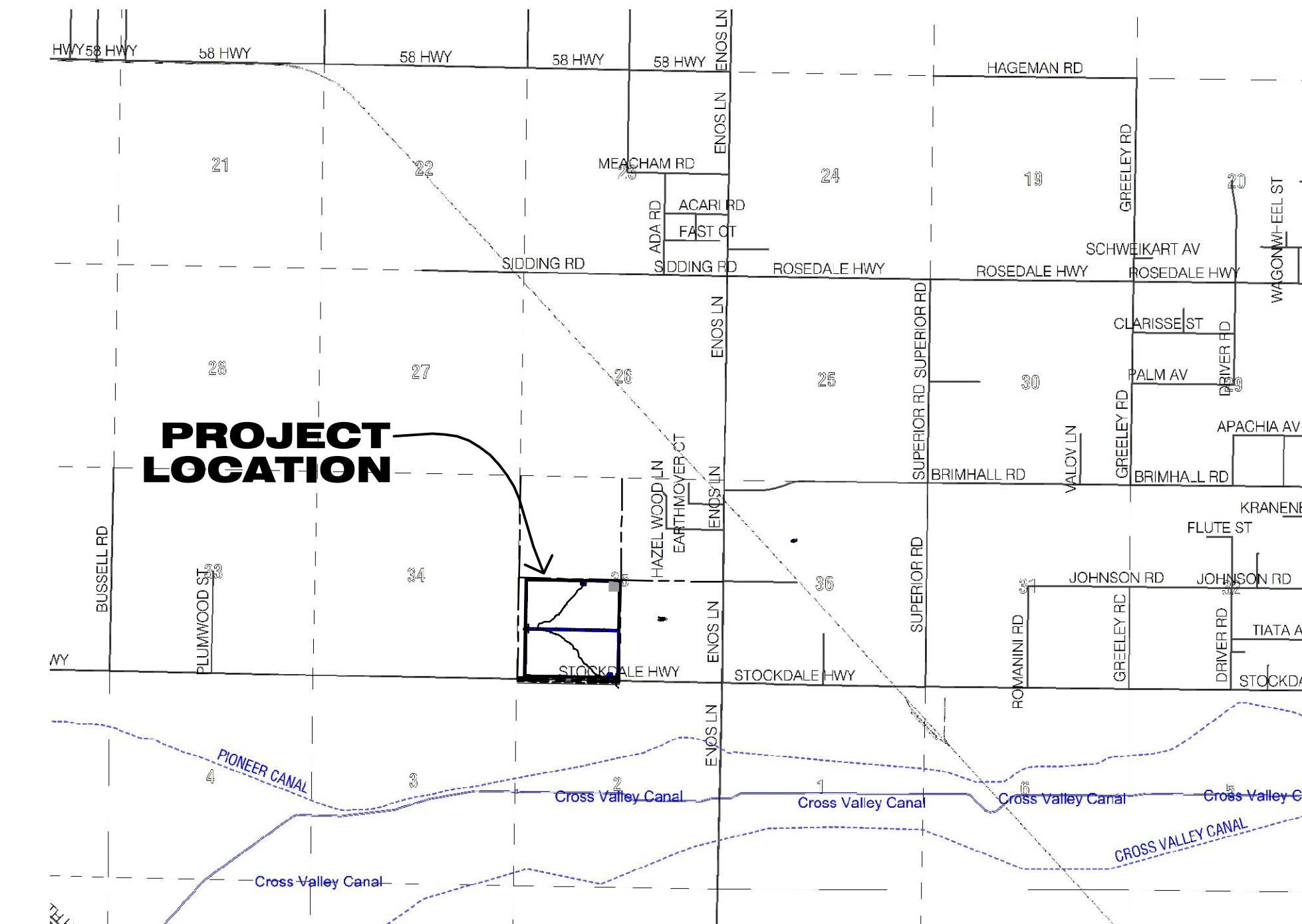
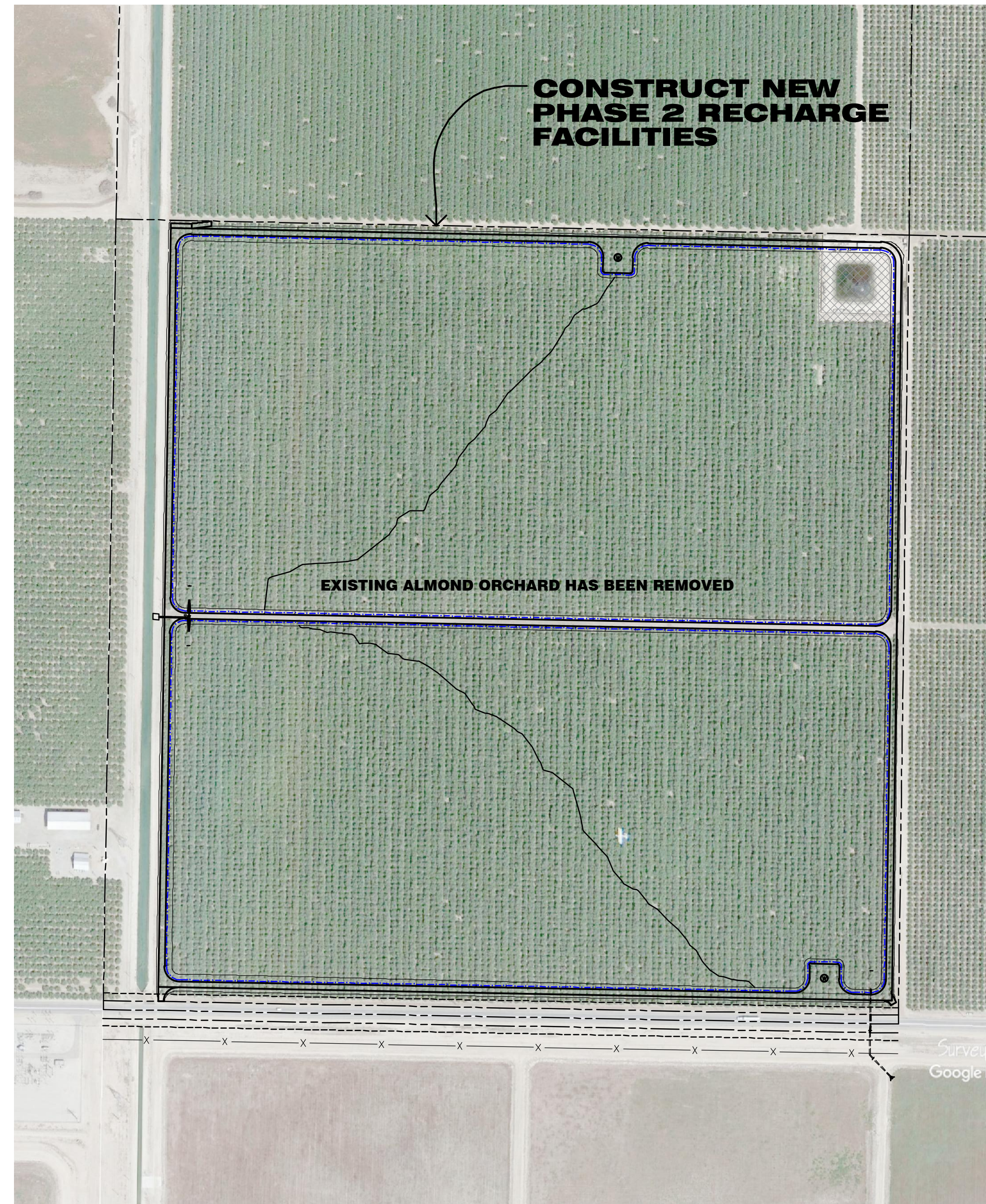
CHISELED "O" ON NORTHEAST CURB RETURN AT STOCKDALE HIGHWAY AND NORD ROAD PER KCS FIELD BOOK 1170, PG 25.
ELEVATION=345.90 NAVD88

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.



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	—●—	NEW LOCATION OF SALVAGED SIGN
---	RIGHT-OF-WAY OR PROPERTY LINE	▨	RIPRAP/ROCK SLOPE PROTECTION
—○—	OVERHEAD LINES W/POWER POLE	—/—	EDGE OF PAVEMENT
---	EXISTING GAS LINE	⊗	EXISTING GATE VALVE
---	EXISTING UTILITIES	↑	EXISTING AIR VENT
---	EXISTING TELEPHONE LINE	□	EXISTING TELE. PEDESTAL
---	EXISTING EASEMENT	⊙	EXISTING SIGN
---	EXISTING FENCE	⊙	EXISTING MONUMENT
---	EXISTING CONTOURS	—○—	FINISHED GRADE
TOP OF SLOPE	EMBANKMENT SIDESLOPE	—○—	FINISHED GRADE SLOPE
SECTION DESIGNATION: SECTION LETTER		DETAIL DESIGNATION: DETAIL LETTER	
SHEET WHERE SECTION IS SHOWN		SHEET WHERE DETAIL IS SHOWN	

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 WATER STORAGE DISTRICT	TF	TOP FACE
PVVC	POINT OF INTERSECTION, VERTICAL CURVE	LF	LINEAR FEET
POVC	POINT ON VERTICAL CURVE	MON	MONUMENT
		LCW	LONG CREST WEIR

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

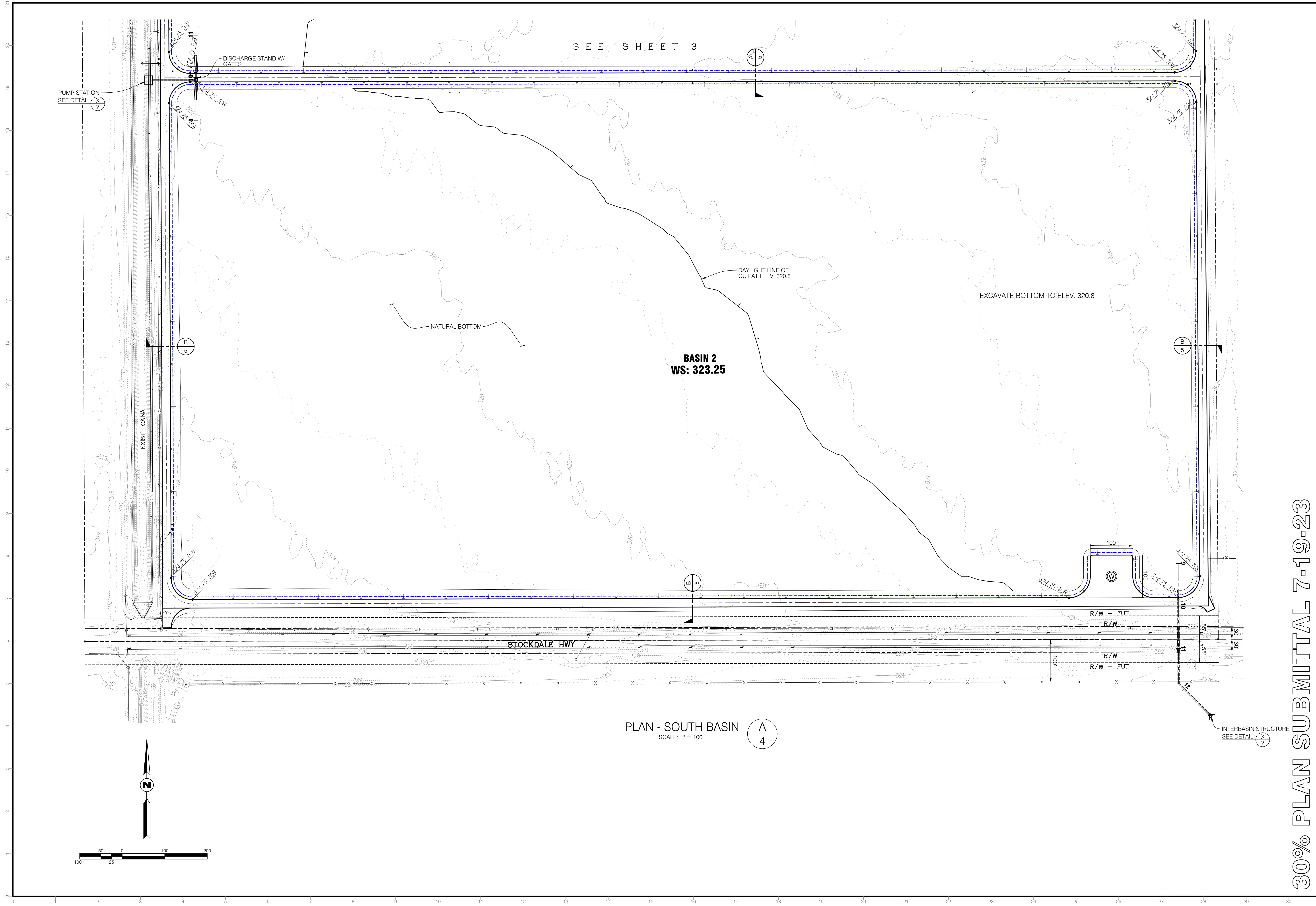
RECORD DRAWING CERTIFICATION

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

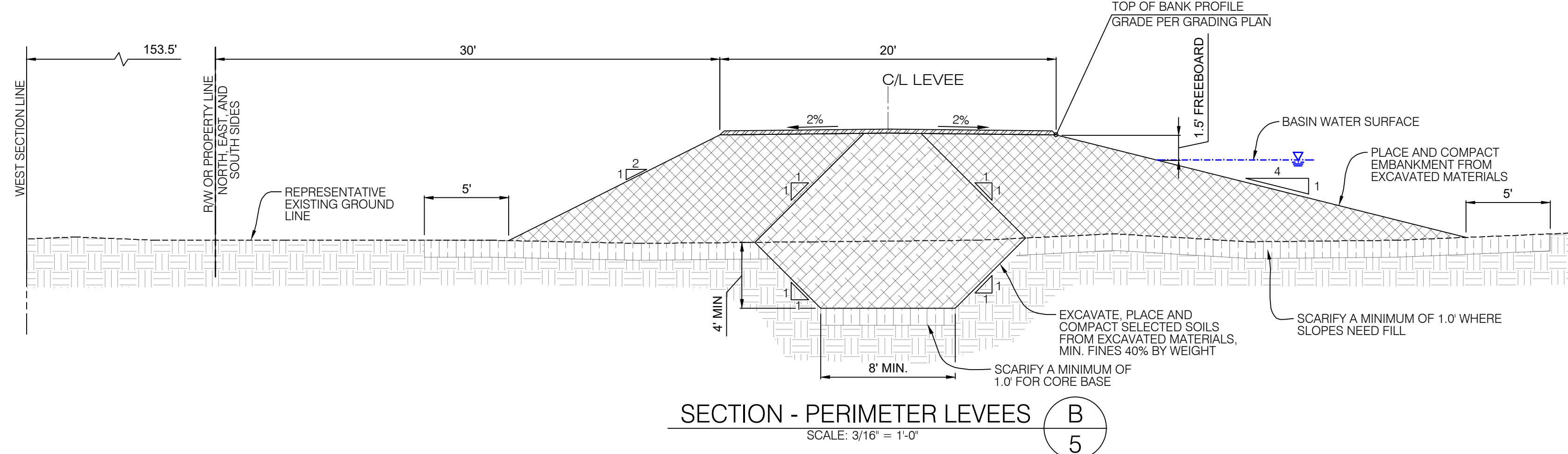


SEE SHEET 3

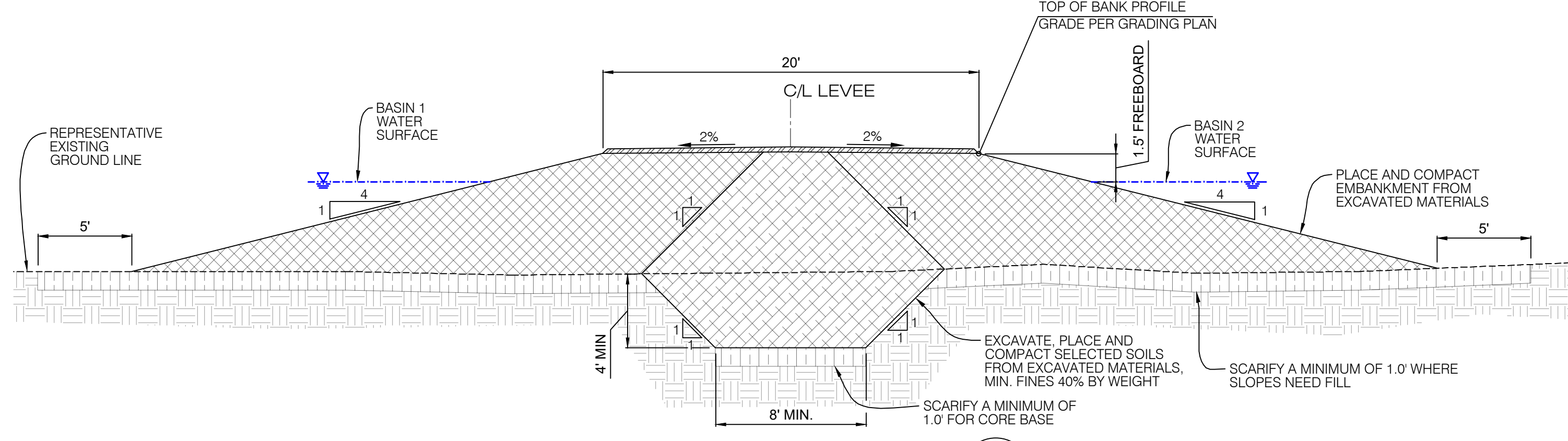
PLAN - SOUTH BASIN
SCALE: 1" = 100'

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 11200 River Run Blvd, Ste 102, Bakersfield, CA 93311 Phone 661-836-9834</p>
<p>SHEET NO. 7</p>		<p>DATE</p>		



SECTION - PERIMETER LEVEES (B)
SCALE: 3/16" = 1'-0"



SECTION - INTERBASIN LEVEE (A)
SCALE: 3/16" = 1'-0"

30% PLAN SUBMITTAL 7-19-23

GROUNDWATER BANK JOINT POWERS AUTHORITY
STOCKDALE NORTH RECHARGE BASIN
FACILITIES
LEVEE DETAIL

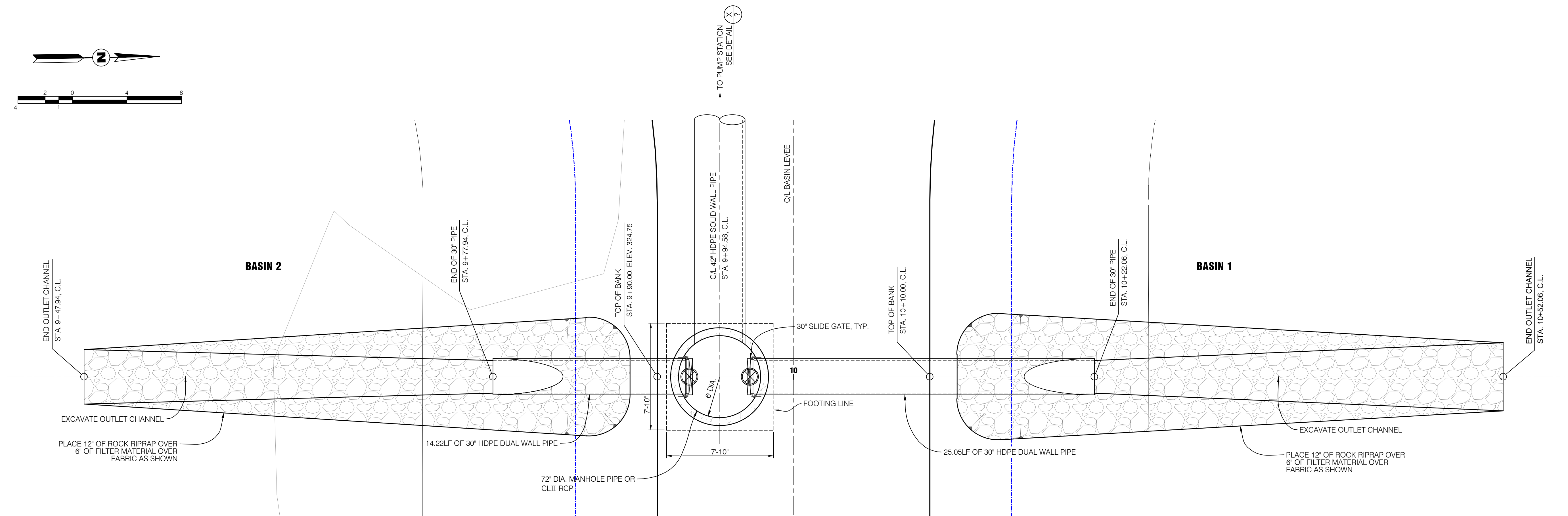
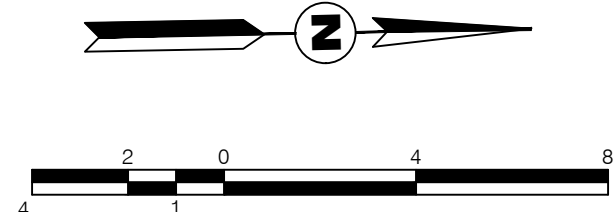
SHEET NO.
7 of 5

PM: RDM
Drawn By: ?
AutoCAD File: 16122001B02
File Path: GBU22-001
Date: 7-19-23

Rev. No.	Date	Revision Description	Approved By

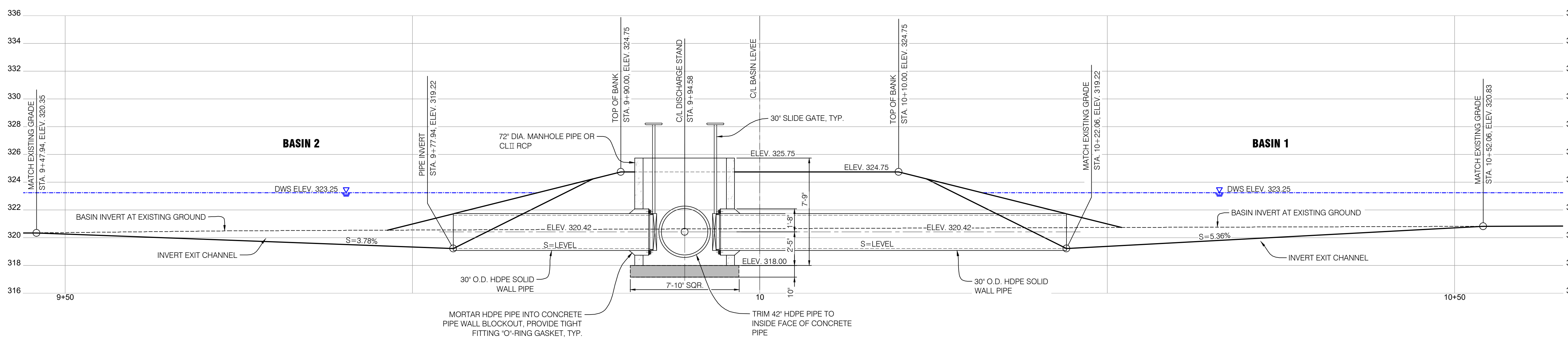
MCE Meyer Civil Engineering, Inc.
11200 River Run Blvd, Ste 102, Bakersfield, CA 93311
Phone 661-836-9834
MeyerCE.net

Richard D. Meyer, RCE 28104
Date



DISCHARGE STAND WITH GATES - PLAN
SCALE: 1/4" = 1'-0"

A
6



DISCHARGE STAND WITH GATES - PROFILE
SCALE: 1/4" = 1'-0"

B
6

30% PLAN SUBMITTAL 7-19-23

GROUNDWATER BANK JOINT POWERS AUTHORITY
STOCKDALE NORTH RECHARGE BASIN
FACILITIES
STRUCTURE DETAIL

SHEET NO.
7
9
6

Rev. No.	Date	Revision Description	Approved By

Meyer
Civil Engineering, Inc.
11200 River Run Blvd, Ste 102, Bakersfield, CA 93311
Phone 661-836-9634
MeyerCE.net

Richard D. Meyer, PCE 28104
Date

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.

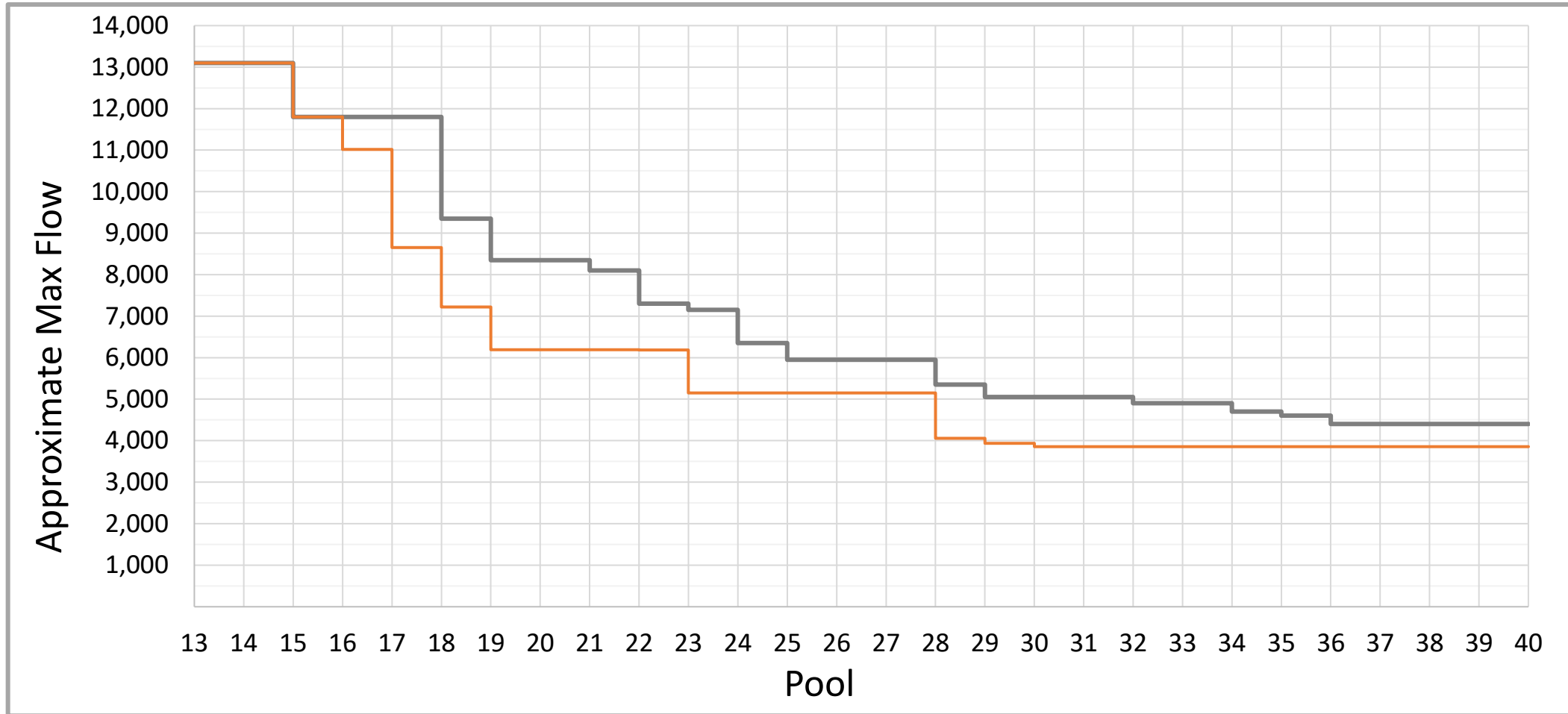


Model Development

- 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

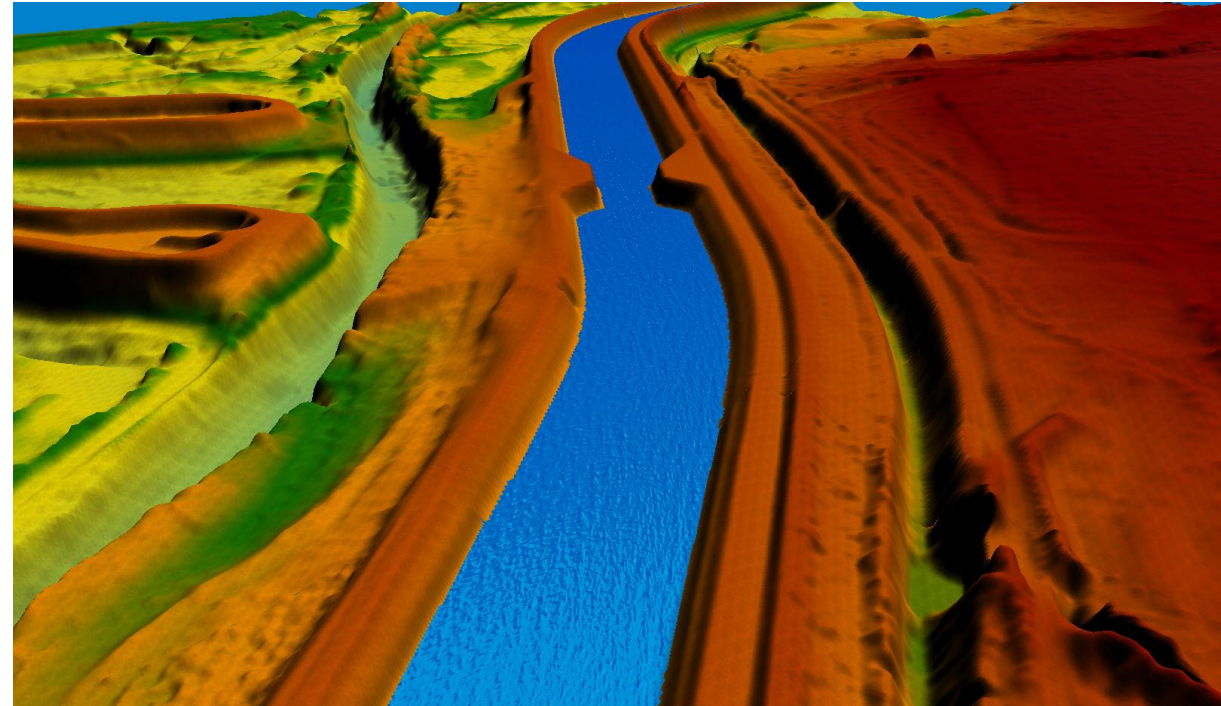
Subsided Conditions Aqueduct Pool Capacities

— 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

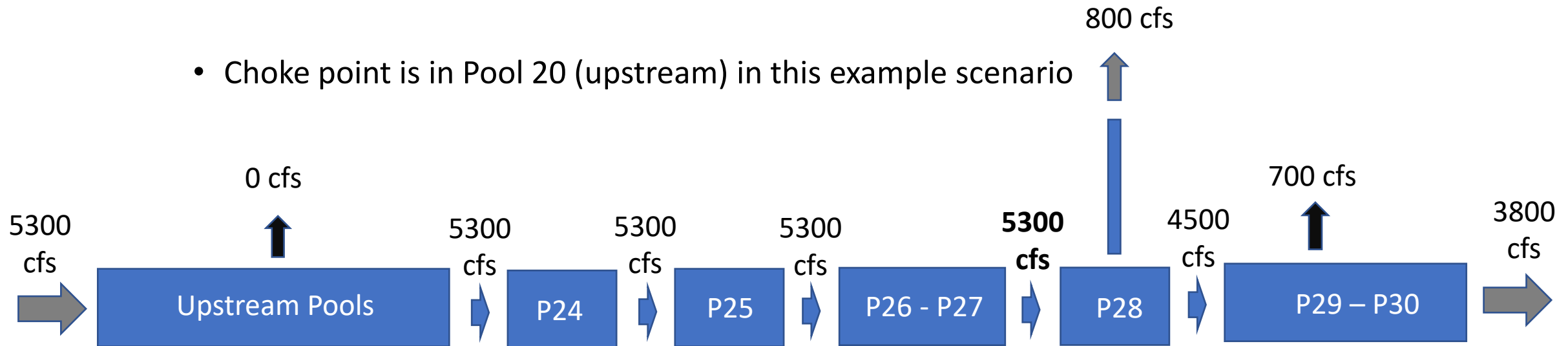
- Special Condition
WSE @ Turnouts
- Gate Closing Rates
- Pumping Rates

MODELING ASSUMPTIONS

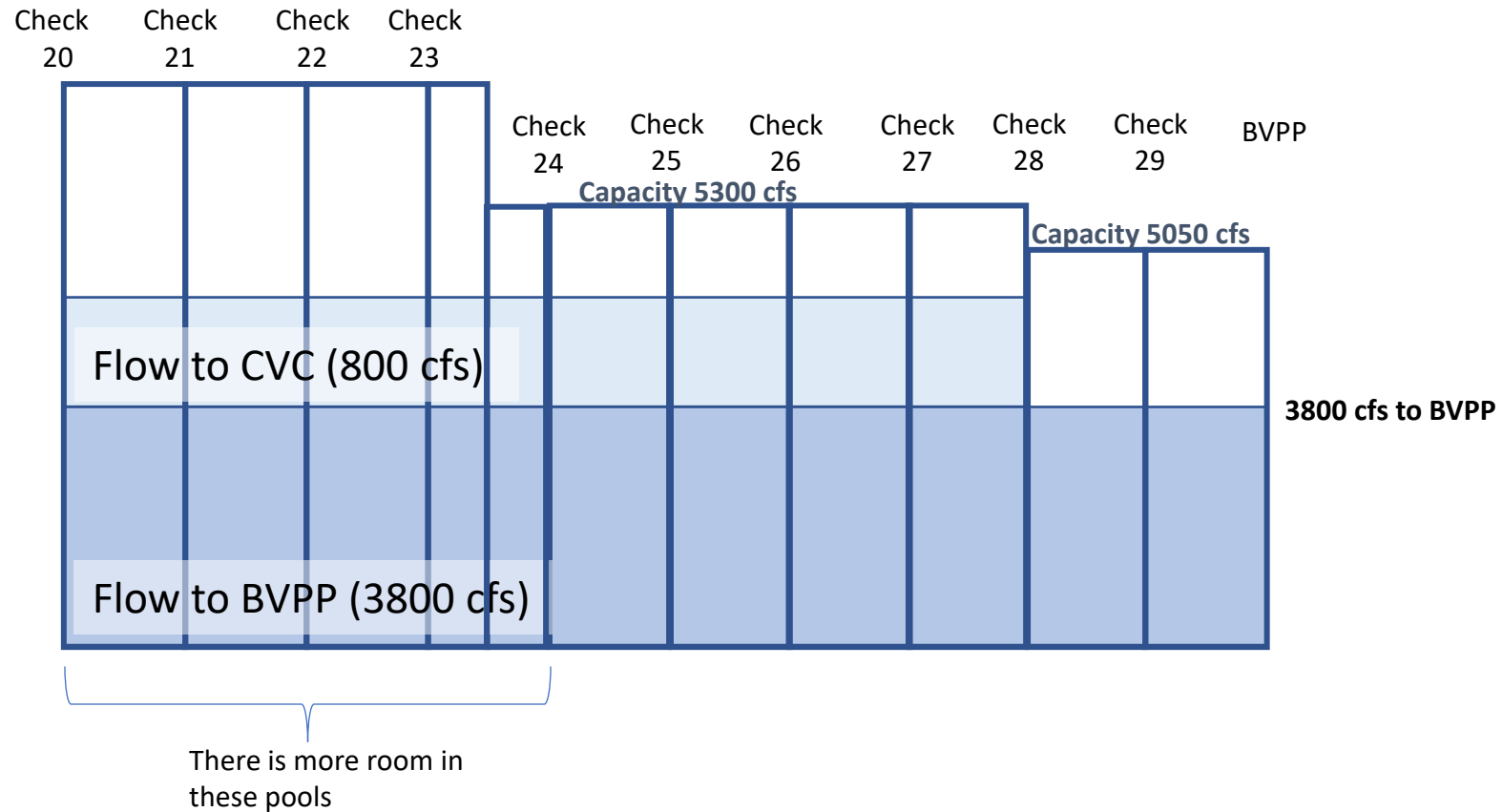
- Turnout flow loading
- Location of turnout
- Changes in operation
based on year
& season
(e.g. common Coastal
SCs)

New Work

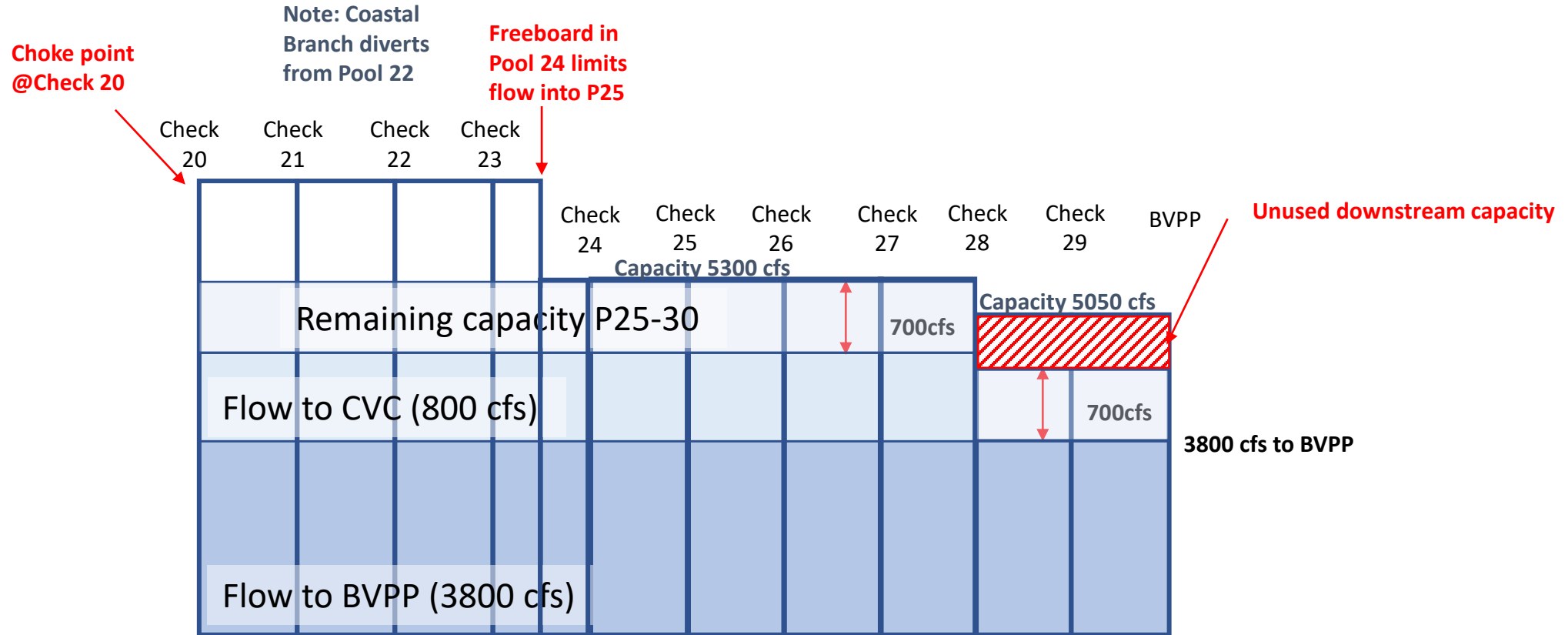
- Example scenario with CVC Pool 1 Geometry
 - 5300 cfs coming in upstream (approx. maximum capacity)
 - 3800 cfs through BVPP (typical during peak season)
 - Demand from Pools 28 and 29
 - Shows this combination works (if no upstream diversions)
- Choke point is in Pool 20 (upstream) in this example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



Simple Aqueduct Capacity Diagram (NTS)

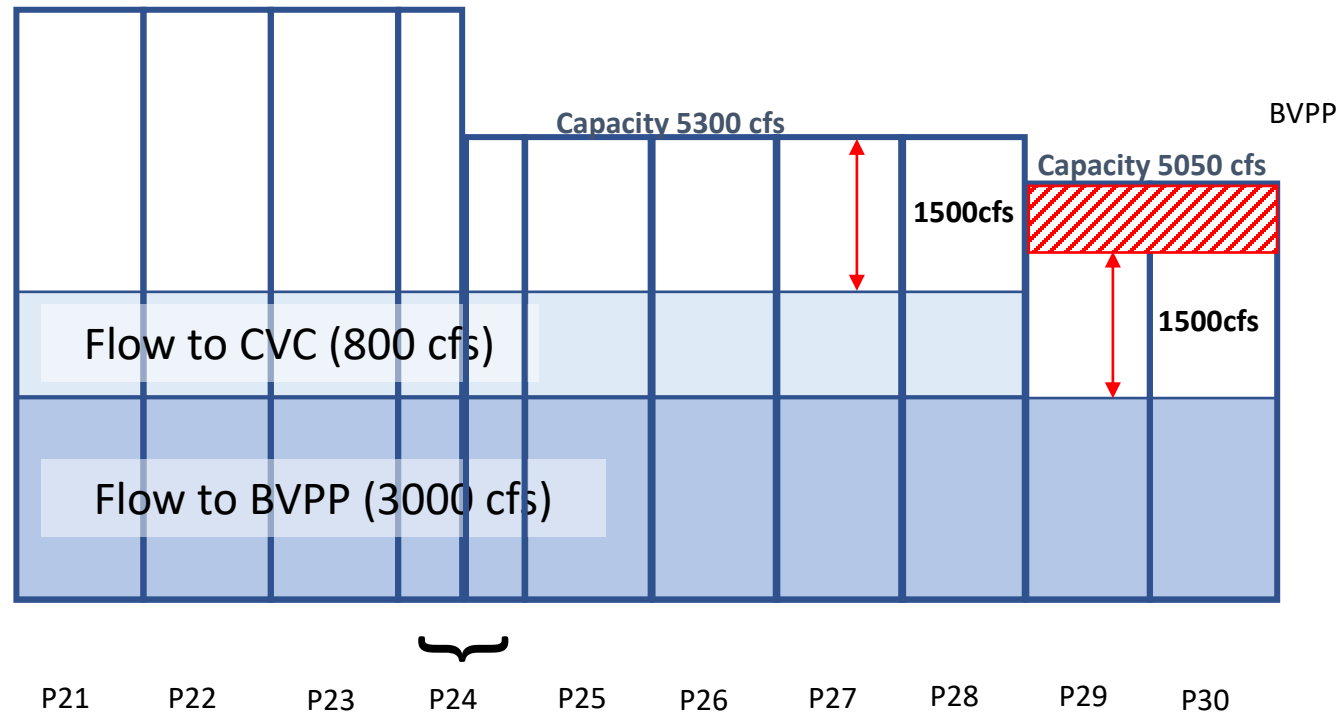


Simple Aqueduct Capacity Diagram (NTS)

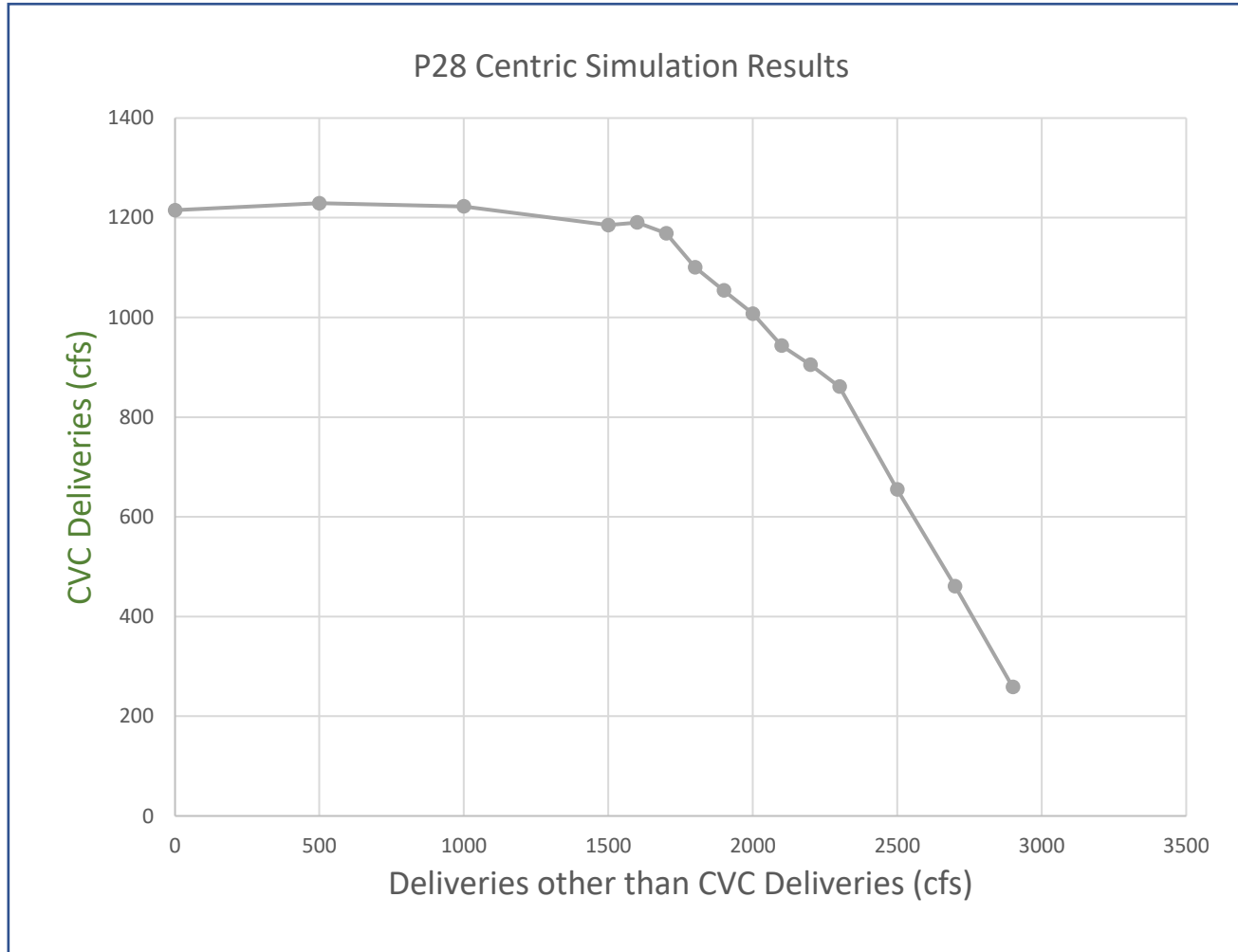


Lower Demand Scenario

- 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)

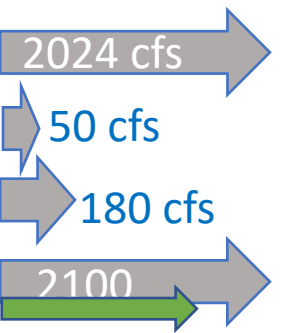
P20

P21-P23

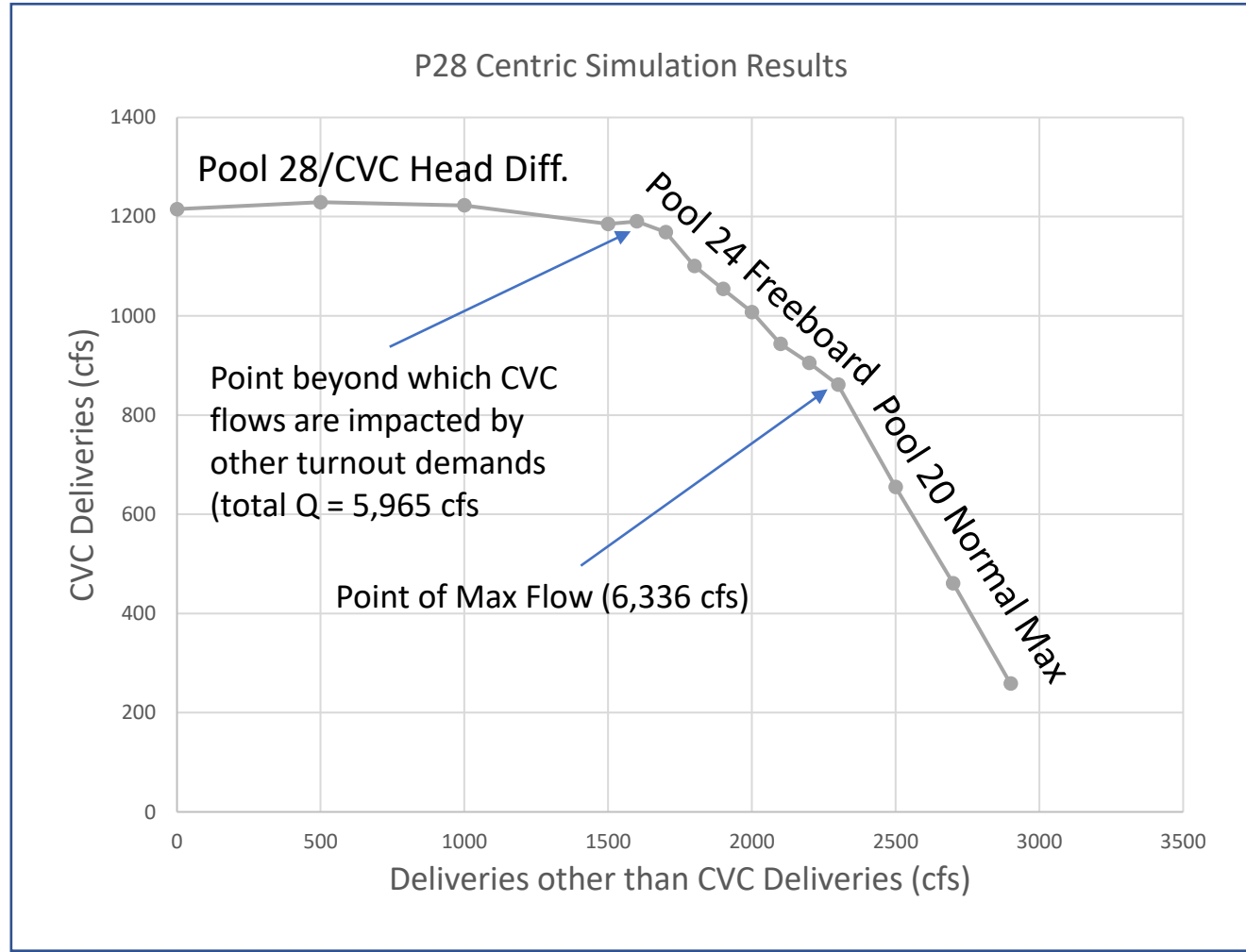
P24

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

**CALIFORNIA ENVIRONMENTAL QUALITY ACT LEAD AGENCY AGREEMENT
BETWEEN CALIFORNIA DEPARTMENT OF WATER RESOURCES AND
GROUNDWATER BANKING JOINT POWERS AUTHORITY
REGARDING THE KERN FAN GROUNDWATER STORAGE PROJECT**

This Agreement is made on _____, 2023, between the California Department of Water Resources (DWR) and the Groundwater Banking Joint Powers Authority (GBJPA), each individually referred to as "Party" and together as "Parties," under California Code of Regulations, Title 14, section 15051, subdivision (d) (CEQA Guidelines) to document that the GBJPA is the lead agency under the California Environmental Quality Act (CEQA) for the Kern Fan Groundwater Storage Project (Kern Fan Project), State Clearinghouse #2020049019, and to document the roles of DWR as a responsible agency for the Kern Fan Project.

A. Whereas in November 2014, California voters approved Proposition 1, the Water Quality, Supply, and Infrastructure Improvement Act of 2014 (Water Code §§ 79700-79798) to provide funding through State general obligation bonds to pay for a comprehensive and fiscally responsible approach for addressing the varied challenges facing California's water resources and water supply. Under Proposition 1, the State Water Storage Investment Program (WSIP) dedicated \$2.7 billion in general obligation bond funds to pay for the public benefits of water storage projects that improve the operation of the State water systems, including projects that are complimentary with the State Water Project (SWP).

B. Whereas, the GBJPA is the proponent of the Kern Fan Project and has the principal responsibility for the development of the project, which, if fully implemented, would provide more reliable water supplies for the GBJPA's members and their respective service areas and would provide the public benefits of ecosystem improvement by providing water for DWR to release as "pulse flows" from the SWP's Oroville Dam to benefit fish and ecosystems downstream of the dam. The Kern Fan Project is located near GBJPA member Rosedale-Rio Bravo Water Storage District in Kern County. SWP facilities would be used to convey water supplies to a new Kern Fan Project turnout off the California Aqueduct proposed to be constructed by the GBJPA, which will be subject to approval by DWR. From the Kern Fan Project turnout, the GBJPA proposes to construct local conveyance facilities that would be used to deliver water supplies for storage and subsequent return of water from the Kern Fan Project to the California Aqueduct.

C. Whereas, the California Water Commission (CWC) is responsible for administering the WSIP to fund the public benefits associated with the water storage projects, including the Kern Fan Project. The CWC selected the GBJPA as a recipient of bond funding to pay for the public benefits component of the Kern Fan Project.

D. Whereas, DWR is the State agency that owns, operates, and maintains the SWP, including Oroville Dam, and will, if the Kern Fan Project is fully approved and developed, make operational decisions concerning pulse flow releases for the ecosystem improvement component of the Kern Fan Project, and DWR has the responsibility under Proposition 1 to enter into public benefit agreements for emergency

water supplies. The California Department of Fish & Wildlife (DFW) is the State trustee agency for fish, wildlife, native plants, and habitats necessary for biologically sustainable populations of those species, and DFW has the responsibility under Proposition 1 to enter into public benefit agreements for the ecosystem improvements. In consultation with DWR, DFW will make recommendations about the timing and amount of pulse flow releases for the Kern Fan Project.

E. Whereas, two other WSIP projects, the Chino Basin Conjunctive Use Environmental Water Storage/Exchange Program; and the Willow Springs Conjunctive Use Project, have been proposed by other local agencies that include the public benefits of providing water to DWR to use in making pulse flow releases from Oroville Dam for ecosystem improvements. Each of these agencies have undertaken their own project-specific CEQA review and anticipate making future discretionary decisions on their projects that will be informed by the supplemental EIR's analysis of environmental effects from the proposed pulse flows.

F. Whereas, the Parties are public agencies that have discretionary approval authority for certain portions of the Kern Fan Project and the responsibility to carry out certain components of the project, and each may have a claim to serve as lead agency.

G. Whereas, CEQA Guidelines section 15051 provides that the agency that acts first on a project will normally serve as the lead agency, and the GBJPA is the agency among the Parties that has acted first on the Kern Fan Project in order to meet legal deadlines, including those for seeking and maintaining WSIP grant funding eligibility.

H. Whereas, CEQA Guidelines section 15051 further provides that when two or more public agencies may have a substantial claim to be the lead agency, the public agencies may agree among themselves to designate one of the agencies as lead agency.

I. Whereas, the purpose of this agreement is to document that the GBJPA remains the lead agency for the Kern Fan Project and DWR is a responsible agency, as provided under the terms stated below.

J. Whereas, the Parties recognize that the Kern Fan Project is subject to CEQA, that a project-specific EIR has been certified by the GBJPA to analyze and disclose the environmental impacts of the Kern Fan Project, including the environmental effects of building and operating the Kern Fan Project to provide water to DWR to make pulse flow releases, among other things.

K. Whereas, the Parties share a strong common interest in CEQA compliance for the Kern Fan Project to provide public benefits and recognize that DWR is now refining the pulse-flow-release component of the Kern Fan Project and the other two WSIP projects, and is in the process of preparing a supplemental EIR to analyze pulse flow effects as minor additions or changes to the project-specific Kern Fan Project EIR and the EIRs for the other two WSIP projects pursuant to CEQA Guidelines sections 15096 and 15163.

The Parties agree as follows:

TERMS OF AGREEMENT

1. The GBJPA shall continue to act as the CEQA lead agency for the Kern Fan Project, and will continue to fulfill all obligations of the lead agency with respect to the Kern Fan Project, as required by CEQA pursuant to CEQA Guidelines section 15051, including administering ongoing use of the existing Kern Fan Project EIR to support further discretionary decisions on the Kern Fan Project, as required by CEQA. DWR has commented and participated in the preparation of the Kern Fan Project EIR and its public review process. The GBJPA has shared with DWR drafts of the EIR, as required, and has considered and incorporated its comments as appropriate.

2. DWR shall act as a responsible agency for the Kern Fan Project for approvals within the scope of its discretionary decision-making authorities, and will fulfill all obligations of a responsible agency with respect to the Kern Fan Project, as required by CEQA. Pursuant to CEQA Guidelines section 15163, DWR, in consultation with DFW, shall be responsible for the pulse-flow component of the Kern Fan Project and for the preparation of a supplemental EIR to analyze and disclose the significance of any environmental impacts associated with the pulse-flow releases from Oroville Dam, and for conducting the public review process as required by CEQA. DWR shall share with GBJPA administrative drafts of the supplemental EIR as requested and shall consider and incorporate its comments as appropriate. Upon completion of the supplemental EIR process, DWR shall consider the original Kern Fan Project EIR as revised by the supplemental EIR in deciding whether to approve the pulse-flow component of the Kern Fan Project. Also upon completion of the supplemental EIR process, the Parties shall consider the original Kern Fan Project EIR as revised by the supplemental EIR in deciding whether to adopt any further discretionary approvals for carrying out the pulse flow component of the Kern Fan Project.

3. The Parties have and will continue to engage in cooperative efforts and consultation to effectively administer the EIR and to prepare the supplemental EIR to ensure compliance with CEQA.

4. This Agreement shall be effective upon the date of execution by all Parties.

5. This Agreement may be executed in counterparts, each of which may be deemed an original and all of which together shall constitute a single instrument. This Agreement may be executed by electronic signature in lieu of an original signature, but the Parties shall provide an original signature upon request.

6. The Agreement will terminate upon the completion and certification of the supplemental EIR and the issuance of NODs by GBJPA as the lead agency and DWR as a responsible agency, or December 31, 2026, whichever comes first. The Parties may extend this Agreement by mutual consent in writing. A Party may terminate this Agreement by giving 60 days' notice to the other Party in writing.

STATE OF CALIFORNIA, DEPARTMENT OF WATER RESOURCES

Ted Craddock, Deputy Director, State Water Project

Date: _____

Approved as to legal form and sufficiency

GROUNDWATER BANKING JOINT POWERS AUTHORITY

Title:

Date: _____

COMMON INTEREST AND JOINT DEFENSE AGREEMENT

This Joint Defense Agreement ("Agreement") is made on _____ among the California Department of Water Resources Agreement (DWR), and the Groundwater Banking Joint Powers Authority (GBJPA), and GBJPA member agencies Rosedale-Rio Bravo Water Storage District (Rosedale), and Irvine Ranch Water District (IRWD) (sometimes referred to herein individually as a "Party" or collectively as the "Parties").

RECITALS

- A. WHEREAS, DWR, and GBJPA, Rosedale, and IRWD agree to be bound by this Agreement.
- B. WHEREAS, the Kern Fan Groundwater Storage Project (Kern Fan Project) means the proposed project approved by and described in the Environmental Impact Report certified by GBJPA on December 28, 2020 (EIR);
- C. WHEREAS, IRWD and Rosedale each respectively approved the Kern Fan Project based on the EIR on January 11, 2021, and January 12, 2021.
- D. WHEREAS, a component of the Kern Fan Project is the management of up to 25,000 acre-feet ("AF") of Article 21 water from the State Water Project (SWP) in the Kern Fan Project's "Ecosystem Account" for the purpose of providing in any one year up to 25,000 AF of water to DWR to provide pulse flow releases from the SWP's Oroville Dam to benefit the downstream ecosystem, including fish in the Feather River and Sacramento-San Joaquin River Delta that are listed as threatened or endangered under the federal Endangered Species Act or California Endangered Species Act;
- E. WHEREAS, the EIR analyzed the Kern Fan Project's pulse-flow component based on the information available from DWR at that time, and DWR is now undertaking further CEQA review as a responsible agency pursuant to CEQA Guidelines sections 15162-15163 to refine and make decisions on its proposal to provide pulse flows using water exchanged with the Project's Ecosystem Account and certain other potential projects participating in the Water Storage Investment Program ("WSIP") administered by the California Water Commission in conjunction with DWR and the California Department of Fish and Wildlife.
- F. Whereas, the Parties share a common interest in CEQA compliance for the Kern Fan Project to provide public benefits and in the refinement by DWR of the pulse-flow-release component of the Kern Fan Project and two other WSIP projects, such that a supplemental EIR (SEIR) can be prepared to analyze the potential effects of pulse-flow releases as minor additions or changes to the project-specific Kern Fan Project EIR and the EIRs for the other two WSIP projects pursuant to CEQA Guidelines sections 15096 and 15163.
- G. WHEREAS, DWR's SEIR will support the development of agreements between or among the Parties to provide the public benefits from implementing the pulse-flow-component of the Kern Fan Project.
- H. WHEREAS, the Parties anticipate that interested persons may file administrative or judicial actions challenging the legality of CEQA compliance, other regulatory review, and permits or other approvals related to implementation of the pulse-flow component of the Kern Fan Project, including formation of agreements to implement the project (herein, Actions);

I. WHEREAS, despite the Parties' separate and potentially differing and/or conflicting rights and interests, the Parties and their respective counsel find, based on currently available information about the anticipated Actions and the issues expected to be raised therein, that each of the Parties shares a strong common interest in completing lawful CEQA compliance and in successfully defending against such Actions and providing the public benefits of the Kern Fan Project, including its pulse-flow component, and that the Actions are anticipated to present certain common legal and factual issues upon which the Parties share a mutuality of interest;

J. WHEREAS, the Parties find that a strong common interest exists in CEQA compliance for the Kern Fan Project, the development of agreements to provide public benefits through the implementation of pulse-flow component of the Kern Fan Project, and successfully defending against the anticipated Actions;

K. WHEREAS, the purpose of this Agreement is to protect oral, electronic, and/or written communications made between and among the Parties and/or their respective counsel, and to allow them to disclose privileged and/or confidential information and materials to each other while avoiding any suggestion of waiver and preserving, to the fullest extent possible, attorney-client privilege, attorney-work-product protections, and any other applicable privileges and protections applying to confidentiality of information, to allow for consistent representation and/or prosecution and defense of claims on issues of common interest raised in the Actions;

L. WHEREAS, this Agreement is consistent with the common interest and joint defense doctrines and concepts recognized and articulated in California Evidence Code section 912(d) and in *OXY Resources California LLC v. Superior Court* (2004) 115 Cal.App.4th 874, *Outdoor LLC v. Superior Court* (2001) 91 Cal.App.4th 334, *California Oak Foundation v. County of Tehama* (2009) 174 Cal.App.4th 1217, and their progeny, and in Rule 26(b)(3) of the Federal Rules of Civil Procedure, as construed in, and in accordance with the joint and common defense concepts articulated in cases such as *Hunydee v. United States*, 355 F.2d 183 (9th Cir. 1965); *Continental Oil Co. v. United States*, 330 F.2d 347 (9th Cir. 1964), and other cases decided regarding communication of information to further the interest of the client and communication of information that is necessary to the accomplishment of the purpose for which the Parties herein have retained counsel regarding the Actions.

THEREFORE, the Parties hereby agree as follows:

TERMS OF AGREEMENT

1. The Parties share certain common objectives and interests in the Actions and the other matters of common interest described above. Accordingly, the Parties wish to pursue their common objectives and interests in a manner that allows their respective counsel to exchange information, including confidential information, work product, litigation strategies, and confidential factual information, in a manner that precludes the waiver of any applicable privilege or similar protection. In that regard, documents and other materials and information, written or oral, that are otherwise privileged or immune from discovery under the work-product doctrine, attorney-client privilege, or any other privilege or confidentiality doctrine, but that are exchanged between or among the Parties or their counsel in connection with or concerning the Actions, and any materials derived directly or indirectly from such documents and other materials and information, shall not lose their privilege or protected status as a result of such exchange. Such disclosed documents and other materials and information, whether previously or hereafter disclosed, are hereinafter referred to as "Joint Defense Information."

2. The Parties agree to keep all Joint Defense Information confidential, provided, however: Joint Defense Information may be shared with governing board members, employees, attorneys, consultants, and/or other agents of each Party, pursuant to paragraph 6 below. Any party wishing to designate any written document as containing Joint Defense Information shall clearly mark any such written document, and each page thereof containing Joint Defense Information, as "PRIVILEGED AND CONFIDENTIAL." The Parties will use their best efforts to so mark all such written materials, and will instruct all attorneys, paralegals, clerical, and other personnel to do so; provided, however, that failure to mark such exchanged written materials shall not be treated as waiving any applicable privilege as to any materials not so marked. To the maximum extent permitted by law, the sharing of Joint Defense Information shall be undertaken in a manner that protects Joint Defense Information from public disclosure under the Ralph M. Brown Act, the Bagley-Keene Open Meeting Act, the California Public Records Act, the Discovery Act, or other applicable law.

3. The Parties intend for this Agreement to apply to all confidential and/or privileged communications, including but not limited to those made in the course of all proceedings leading up to the initiation of the Actions, and throughout the proceedings of all Actions until finally and conclusively determined by the court of last resort.

4. Nothing contained in this Agreement shall obligate any Party to disclose any information to any other Party or any other person or entity.

5. All Joint Defense Information will remain privileged and protected, notwithstanding disclosure to a Party or the Parties. Additionally, discussions between or among the Parties and/or their counsel shall be protected by the attorney work product doctrine, the attorney-client privilege, and/or any other privileges or confidentiality doctrines that may apply.

6. The Parties understand and agree that this Agreement, its terms, periodic meetings and conversations pursuant to it, any Joint Defense Information that has been or will be produced to counsel by any Party, and any Joint Defense Information obtained from any expert or consultant to any of the Parties which has been or will be produced to any Party to this Agreement or its counsel shall remain confidential and shall not be disclosed to any third party, including to any consultant retained by any Party, except as provided in Paragraph 7 immediately below. Should a Party wish to disclose any Joint Defense Information, it shall notify in writing all other Parties 10 days prior to doing so, and any Party may prohibit such disclosure of any Joint Defense Information generated by that Party by notifying the Party intending to disclose the information within 48 hours therefrom.

7. To protect Joint Defense Information from potential compelled disclosure pursuant to discovery, the Parties understand and agree, regarding any expert or consultant to whom Joint Defense Information has been provided, that such consultants will not later be designated to provide testimony in litigation without first obtaining the consent and agreement of any Party whose confidential information was provided to that expert or consultant, and to the waiver of confidentiality that may result from such designation.

8. This Agreement applies to Joint Defense Information that may have been communicated between and/or among the Parties before the formal execution of the Agreement, and to that extent, this Agreement is intended to continue the prior understanding of the Parties regarding the confidentiality of such materials and information.

9. The Parties shall each take all necessary and appropriate measures to ensure that any person who is granted access to Joint Defense Information is familiar with the terms of this Agreement and complies with its terms. Joint Defense Information shall be transmitted and maintained in such a manner so that no intentional or unintentional disclosure is made which might compromise any asserted privilege or immunity.

10. At the request and option of any Party, Joint Defense Information generated by that Party shall be returned to that Party or shall be destroyed by the receiving Party, subject to any applicable federal and state laws mandating record-keeping.

11. Disclosure of Joint Defense Information to a Party, or any agent as specified in Paragraphs 2 or 6 will be conditioned upon their agreeing to maintain the confidentiality of the Joint Defense Information. If Joint Defense Information is disclosed to any person or entities hired to assist in the Actions, the recipient, as a precondition to such disclosure, must agree in writing to maintain the confidentiality of the materials.

12. If any Joint Defense Information is divulged, disclosed, or provided to any person or entity not a Party, except as otherwise provided in this Agreement or disclosed by the author of the information, without the written consent of all Parties, it shall be construed as a violation of this Agreement and will not serve as or constitute a waiver of the attorney-client privilege, attorney work-product doctrine, or other privilege or confidentiality doctrine that may apply.

13. The Parties agree that if Joint Defense Information is sought by a non-party to this Agreement by discovery request, subpoena, deposition question, interrogatories, Public Records Act request (California Government Code section 6250 et seq.), or otherwise sought through a bona fide requirement by law or regulation (collectively a "Requirement") such Joint Defense Information shall not be disclosed except as required by applicable law or court order. The Party receiving a Public Records Act request shall be the Party that determines whether the disclosure of Joint Defense Information in its possession is required by law or court order. The Party receiving a request or demand for Joint Defense Information through a Requirement shall immediately provide written notice to all other Parties of the existence, terms, and circumstances of the request or demand, and will not disclose the Joint Defense Information at issue for at least 10 calendar days from the date of the demand or request, to give each other Party an opportunity to seek an order to prevent such disclosure. If such an order is sought, the Party that received the request or demand shall refrain from disclosing the requested or demanded Joint Defense Information until such time as a final determination is made on that order; provided, however, that the Party that received the request or demand shall not be required to refrain from disclosing the requested or demanded information if doing so would violate the law. The costs and expenses for seeking a protective order shall be borne only by the Party(ies) seeking the protective order. If a Party subject to a request or demand described in this paragraph is compelled, in the opinion of its legal counsel, to disclose Joint Defense Information in order to avoid being found in contempt or other substantial penalty, that Party shall furnish only that portion of the Privileged Information which is legally required pursuant to the order of a court and will not be liable to any other Party for the disclosure of Joint Defense Information.

14. Nothing in this Agreement shall be construed to affect the separate and independent representation of each Party by its respective counsel according to what its counsel believes to be in the respective Party's best interest. While counsel are obligated to preserve the confidentiality of Joint Defense Information, and it is expected that counsel for one Party may from time to time prepare pleadings addressing issues which counsel for another Party may decide his or her client has a common interest in and elect to join in for efficiency or other

reasons, this Agreement does not provide authority or obligation for counsel for any one Party to act for or represent the rights or interests of any Party other than the one(s) it represents.

15. This Agreement shall not create any joint venture, agency, or similar relationship among the Parties. No Party or counsel of any Party to this Agreement shall have any vote, control, or influence over the decisions of any other Party or its counsel related to the Actions. No Party shall have the authority to waive any applicable privilege or doctrine on behalf of any other Party. Nor shall any waiver of an applicable privilege or protection by any Party be construed to apply to any other Party.

16. In the event any Party ceases participating in the Actions, or for any other reason ceases to participate in this Agreement, such Party shall be obligated to continue to preserve the confidentiality of Joint Defense Information and any and all privileges pertaining to Joint Defense Information as though the Party was still part of the joint prosecution/defense arrangement.

17. The Parties agree that, in the event any Party determines that it no longer has, or no longer will have, mutuality of interest in a joint prosecution or defense for any reason, that Party will promptly notify the other Parties of its intent to withdraw from this Agreement. Written notice of withdrawal shall constitute a termination of this Agreement as to the withdrawing Party; provided, however, that no such termination shall affect or impair the continuing obligations of confidentiality and privilege with respect to Joint Defense Information previously provided to the withdrawing Party pursuant to this Agreement.

18. The Parties agree that the existence of this Agreement shall not be disclosed or used offensively or defensively in the Actions or any other proceeding (except that this Agreement may be disclosed or used by any Party hereto in any proceeding to maintain and protect, consistent with the intent of this Agreement, the confidentiality of any or all Joint Defense Information); nor will any Party claim that any counsel to a Party is disqualified from any proceeding by reason of this Agreement or the sharing of Joint Defense Information under this Agreement.

19. The Parties expressly acknowledge and agree there is no adequate remedy at law for breach of this Agreement and that, in addition to any other remedies available, performance of this Agreement may be specifically ordered or a breach hereof may be enjoined, or both.

20. This Agreement, by itself, does not obligate or authorize any Party to be responsible for or to share costs of any of the Actions with any other Party.

21. The execution of and participation in this Agreement by the Parties shall not provide the grounds for the disqualification of any attorney, consultant, or any other representative of any Party hereto, from the Actions or any future administrative or judicial proceeding arising out of the Actions.

22. To the extent that the Parties have previously agreed orally or in writing to operate under a joint defense and/or common interest agreement with respect to the Kern Fan Project, all information shared under such prior agreements shall continue to be protected by all applicable privileges. This Agreement memorializes any earlier oral agreements and incorporates and supersedes any prior written or oral agreements between or among the Parties pursuant to which confidential common-interest information or Joint Defense Information has been exchanged.

23. No amendment, modification, waiver, or termination of this Agreement shall be binding unless executed in writing by all Parties, other than a withdrawal by a Party as provided in Paragraph 17.

24. This Agreement shall be interpreted in accordance with the laws of the State of California.

25. If any provision of this Agreement is determined to be invalid or unenforceable, the remaining provisions shall continue to be fully operative.

26. Each signatory to this Agreement hereby represents and warrants that he/she executed this Agreement on behalf of his/her client only after fully apprising his/her client of the provisions of this Agreement and their meaning and obtaining all necessary authority to enter into this Agreement on his/her client's behalf.

27. The Parties intend that this Agreement may be signed in separate counterparts, each of which shall be binding on all parties who are signatory to any counterpart. This Agreement may be executed by electronic signature in lieu of an original signature, but the Parties shall provide an original signature upon request.

28. This Agreement shall become effective upon the date written above after the execution of all the Parties.

STATE OF CALIFORNIA, DEPARTMENT OF WATER RESOURCES

Date: _____

Ted Craddock, Deputy Director, State Water Project

Approved as to legal form and sufficiency

GROUNDWATER BANKING JOINT POWERS AUTHORITY

Date: _____

Title

ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT

Title

Date: _____

IRVINE RANCH WATER DISTRICT

Title

Date: _____

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.

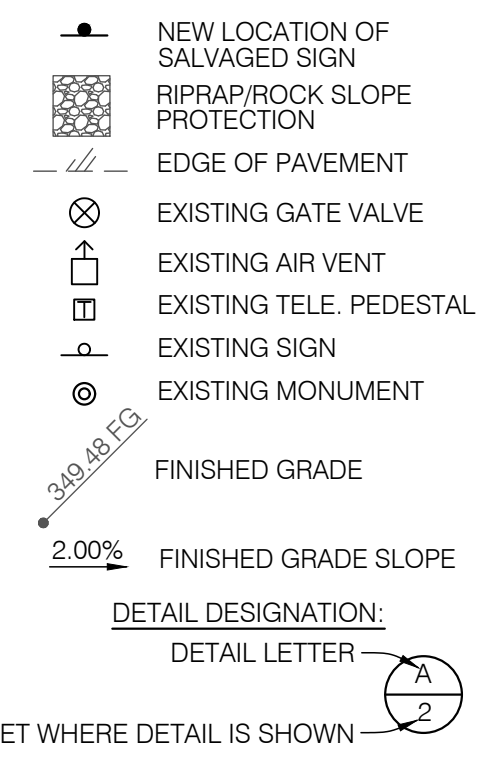
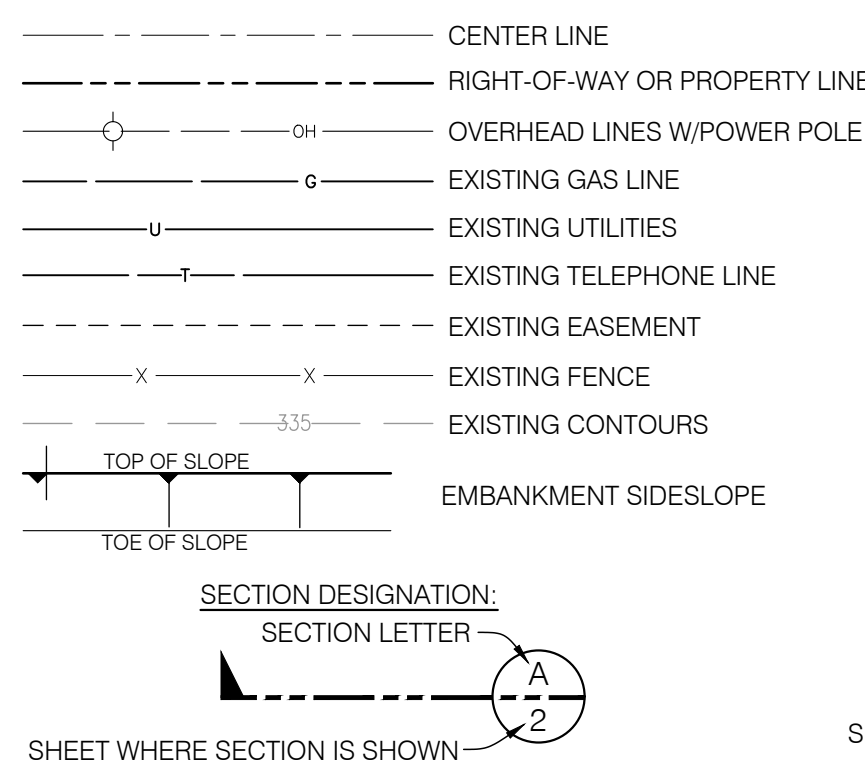
CONSTRUCTION NOTES:

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.

INDEX OF DRAWINGS

SHEET 1 COVER AND TITLE SHEET	SHEET 27 STRUCTURE HALF-PLAN - RIVER CANAL SIPHON
SHEET 2 PROJECT OVERVIEW	SHEET 28 INLET ELEVATIONS - RIVER CANAL SIPHON
SHEET 3 PLAN-PROFILE STA 9~ TO 20~	SHEET 29 OUTLET ELEVATIONS - RIVER CANAL SIPHON
SHEET 4 PLAN-PROFILE STA 20~ TO 31~	SHEET 30 STRUCTURE PLAN-PROFILE - PIPELINE SIPHON & CHECK
SHEET 5 PLAN-PROFILE STA 31~ TO 41+40	SHEET 31 STRUCTURE SECTION - PIPELINE SIPHON & CHECK
SHEET 6 PLAN-PROFILE STA 41+40 TO 53~	SHEET 32 STRUCTURE HALF-PLAN - PIPELINE SIPHON & CHECK
SHEET 7 PLAN-PROFILE STA 53~ TO 64+50	SHEET 33 INLET ELEVATIONS - PIPELINE SIPHON & CHECK
SHEET 8 PLAN-PROFILE STA 64+50 TO 76~	SHEET 34 OUTLET ELEVATIONS - PIPELINE SIPHON & CHECK
SHEET 9 PLAN-PROFILE STA 76~ TO 87+50	SHEET 35 STRUCUTRE PLAN-PROFILE - PIONEER BRIDGE OVERVIEW
SHEET 10 PLAN-PROFILE STA 87+50 TO 99~	SHEET 36 STRUCTURE WING WALLS - PIONEER BRIDGE
SHEET 11 PLAN-PROFILE STA 99~ TO 110~	SHEET 37 STRUCTURE PLAN-PROFILE - UPRR SIPHON
SHEET 12 PLAN-PROFILE STA 110~ TO END	SHEET 38 STRUCTURE ELEVATION - UPRR SIPHON
SHEET 13 GRADING PLANS - RIVER TURNOUT & RIVER CANAL SIPHON	SHEET 39 STRUCTURE HALF-PLAN - UPRR SIPHON
SHEET 14 GRADING PLANS - PIPELINE SIPHON & PIONEER BRIDGE	SHEET 40 INLET ELEVATIONS - UPRR SIPHON
SHEET 15 GRADING PLAN - UPRR SIPHON	SHEET 41 OUTLET SECTIONS - UPRR SIPHON
SHEET 16 TYPICAL CANAL SECTIONS	SHEET 42 TRASH SCREEN ELEVATIONS
SHEET 17 CROSS SECTIONS STA. 10~ TO 36~	SHEET 43 TRASH SCREEN DETAILS
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SHEET 21 STRUCTURE PLAN & PROFILE - RIVER TURNOUT	SHEET ?? TECHNICAL SPECIFICATIONS - PAGE 3
SHEET 22 STRUCTURE HALF-PLAN & SECTION - RIVER TUNOUT	SHEET ?? TECHNICAL SPECIFICATIONS - PAGE 4
SHEET 23 INLET ELEVATIONS - RIVER TURNOUT	SHEET ?? RECORD AERIAL AND TOPOGRAPHY
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SHEET 25 STRUCTURE PLAN-PROFILE - RIVER CANAL SIPHON	
SHEET 26 STRUCTURE SECTION - RIVER CANAL SIPHON	

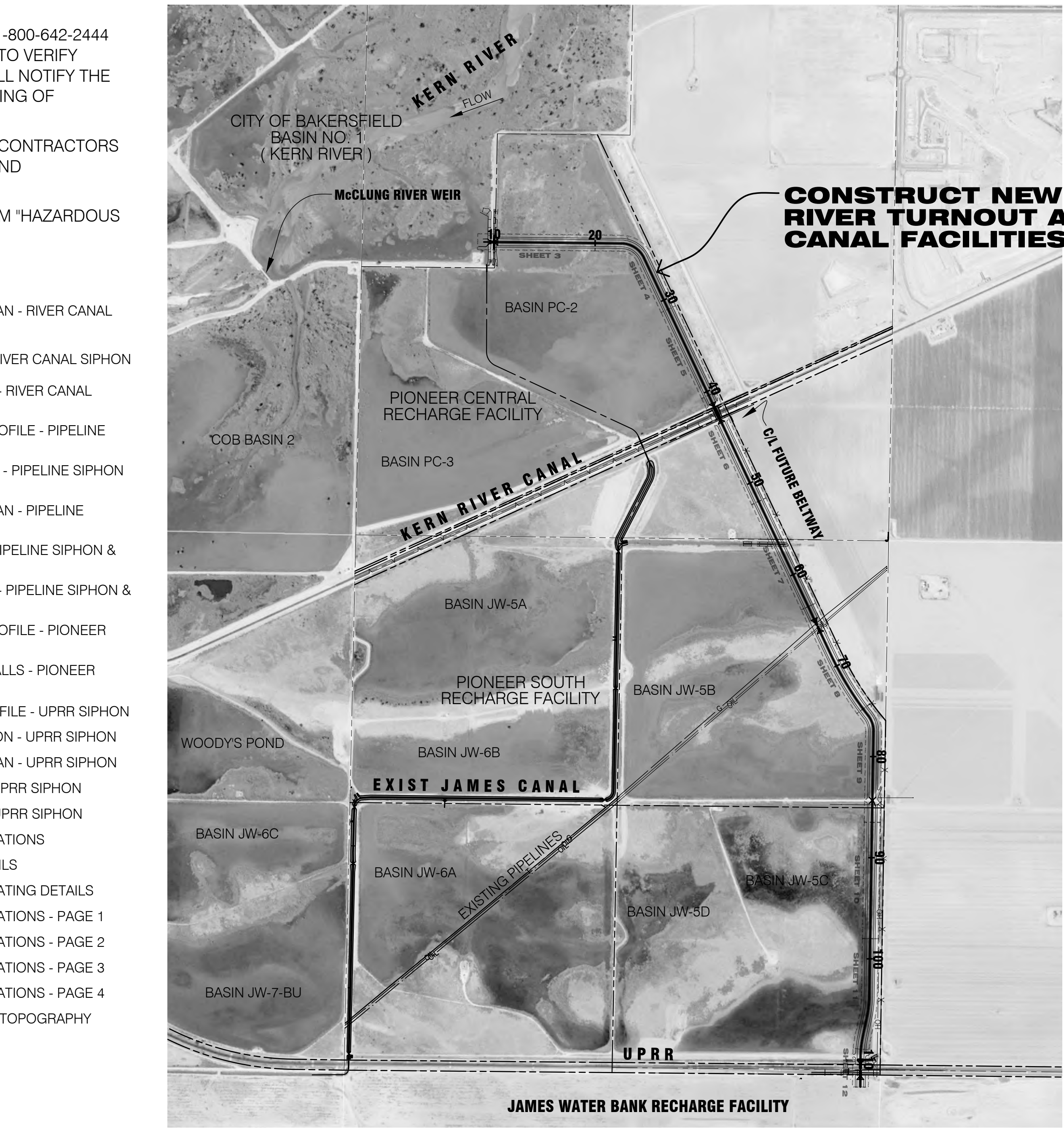
LEGEND



ABBREVIATIONS

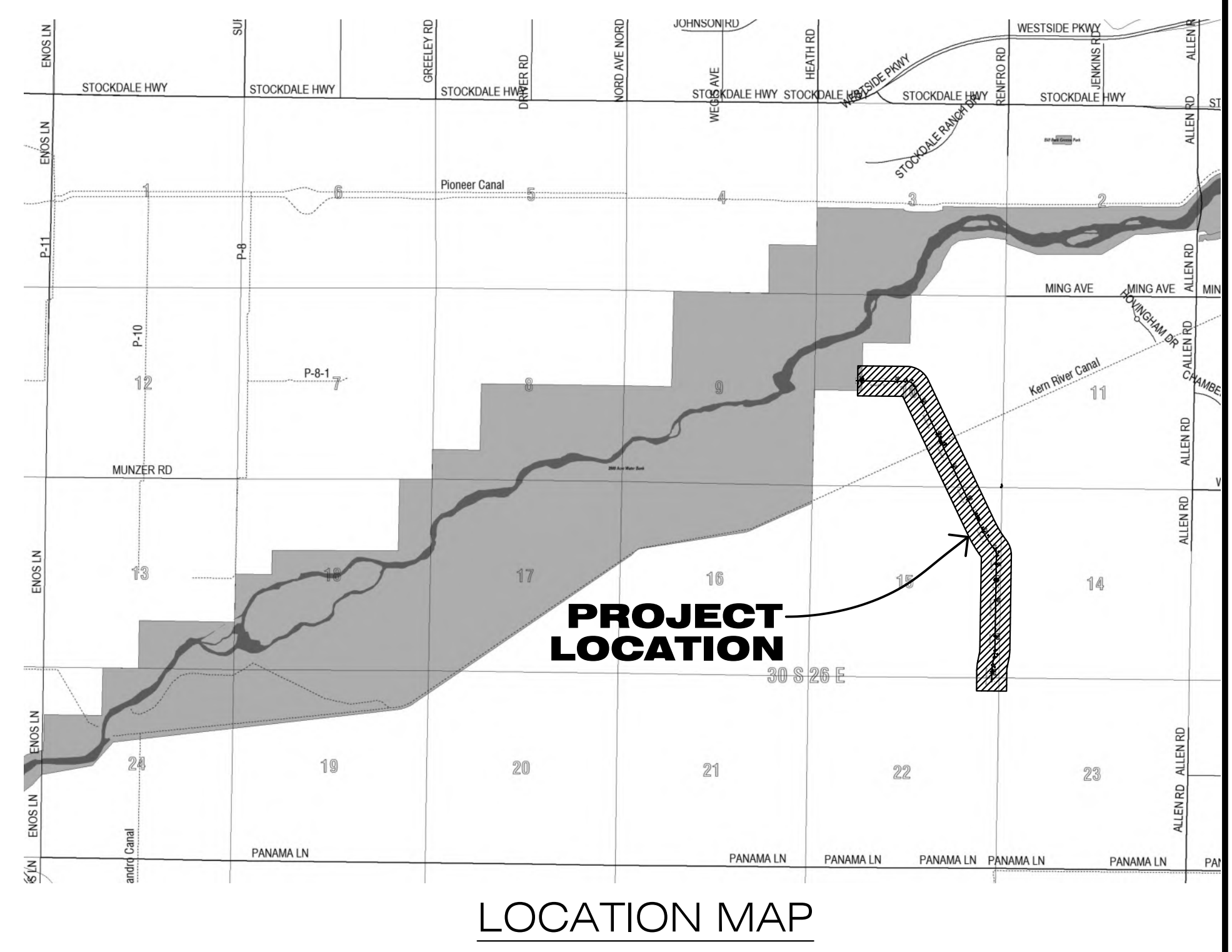
PI POINT OF INTERSECTION	RRBWS ROSEDALE RIO-BRAVO WATER STORAGE DISTRICT	O/S OFFSET EACH WAY
R/W RIGHT OF WAY	P/WC POINT OF INTERSECTION, VERTICAL CURVE	EW EACH FACE
EP EDGE OF PAVEMENT	POVC POINT ON VERTICAL CURVE	EF NEAR FACE
INV INVERT	EVC END VERTICAL CURVE	NF FAR FACE
C/L CENTERLINE	BVC BEGIN VERTICAL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

KEY MAP
SCALE: 1"=800'



JAMES WATER BANK AUTHORITY

PLANS FOR CONSTRUCTION OF THE RIVER TURNOUT AND CANAL FACILITIES



90% COMPLETE - 7-28-23

SUBMITTED BY:
RICHARD D. MEYER, R.C.E. NO. 28104 DATE

APPROVED BY:
DAN BARTEL ASSISTANT GENERAL MANAGER/ENGINEER JAMES WATER BANK AUTHORITY DATE

M Meyer
Civil Engineering, Inc.
11200 River Run Blvd, Ste. 102, Bakersfield, CA 93311
Phone 661-836-9834 FAX 661-836-9761

RECORD DRAWING CERTIFICATION

JAMES WATER BANK AUTHORITY
RIVER TURNOUT AND CANAL FACILITIES
COVER AND TITLE SHEET

NO 1 OF ?? SHEETS

RIVER TURNOUT AND CANAL FACILITIES



PLAN OF WORKS A
SCALE: 1"=300' 2

SHEET NO. 3 OF 12

JAMES WATER BANK AUTHORITY
RIVER TURNOUT AND CANAL FACILITIES

PROJECT OVERVIEW

PM:	RDM
Drawn By:	?
AutoCAD File:	JWB21001CNL
File No:	JWB-21-001
Date:	07-28-23
Rev. No.	
Date	
Revision Description	
Approved By	

MCE Meyer
Civil Engineering, Inc.
11200 River Run Blvd, Ste. 102, Bakersfield, CA 93311
Phone 661-836-9834 FAX 661-836-9761

TO: Rosedale-Rio Bravo Water Storage District Board of Directors
Agenda Item 8.c.iii.

FROM: Trent Taylor and Dan Bartel

DATE: August 11, 2023

RE: Consideration of Technical Services Contract for GSP Drafting

Discussion

The District requested proposals from EKI Environment & Water, Inc. and Todd Groundwater for the development of a revised groundwater sustainability plan (GSP) that would be coordinated and consistent with the coordinated Kern Subbasin basin-wide plan effort. Both consultants were tasked with submitting a proposal that consisted of the development of a revised GSP, technical review of the basin-wide coordination efforts and technical work group work products, and associated technical assistance.

Both consultants submitted proposals which are attached to this memo. The breakdown of these proposals are as follows:

EKI Environment & Water, Inc.	\$198,000
Todd Groundwater	\$164,100

Recommendation

Staff recommends entering into a Technical Services Contract with EKI Environment & Water, Inc. for an amount not to exceed \$198,000 for the development of a revised groundwater sustainability plan.

1 August 2023

Trent Taylor, Water Resources Manager
Rosedale-Rio Bravo Water Storage District
849 Allen Road
Bakersfield, CA 93314

Subject: **Proposal to Provide Sustainable Groundwater Management Act Technical Support to Rosedale-Rio Bravo Water Storage District**
(EKI C3-207)

Dear Mr. Taylor,

EKI Environment & Water, Inc. (EKI) is pleased to present to the Rosedale-Rio Bravo Water Storage District (RRBWSD) this proposal to provide technical and strategic Sustainable Groundwater Management Act (SGMA) support services. This proposed work will focus primarily on assisting RRBWSD with the development of a revised groundwater sustainability plan (GSP), including but not limited to technical review of the coordinated basin-wide plan contents and preparation of other GSP chapters. Based on our understanding of the Kern County Subbasin (Basin) current and planned efforts, the State Water Resources Control Board (SWRCB) process, and RRBWSD's short-term needs, we present the following proposed scope of work to be completed by early 2024.

BACKGROUND

The Basin is currently covered by six GSPs developed by 19 Groundwater Sustainability Agencies (GSAs). RRBWSD established the Rosedale-Rio Bravo Groundwater Sustainability Agency (RRBGSA) on 14 February 2023. The RRBWSD is currently implementing SGMA based on the Management Area Plan (MAP) that was developed as part of the Kern Groundwater Authority GSA's GSP.

The Basin GSPs were collectively designated as "incomplete" with Corrective Actions in January 2022, and deemed "inadequate" by the California Department of Water Resources (DWR) in March 2023 following an initial round of GSP revisions. Therefore, the Basin is now subject to the SWRCB intervention process. The SWRCB Probationary Hearing (Hearing) for the Basin is anticipated to occur in April 2024¹. This proposal pertains to revising the 2022 MAP developed by and for the RRBGSA to address the Corrective Actions through the scope of work outlined below.

SCOPE OF WORK

Task 1 – Conduct Technical Review of the Basin-Wide Coordinated Efforts

EKI understands that, while no formal decision has been made, the Basin GSAs are actively planning to coordinate the development of GSP "common chapters" that address the revised Sustainable

¹ Information acquired from SWRCB Board meeting presentation on June 21, 2023.

Management Criteria (SMCs), Monitoring Network, and Basin Setting² elements required by 23-CCR §354. Drafting of those chapters is anticipated to be a shared effort across the technical consultants that are actively participating in the recently-formed Technical Working Group (TWG). Similarly, coordinated efforts are anticipated with respect to the development of a well mitigation plan, well exceedance policy, and coordination agreement.

Under Task 1, EKI will review and provide comments on the interim work products, draft common chapters, and other Basin materials as they become available. The review process is anticipated to involve evaluating the technical work and deliverables produced by the TWG to ensure that they: (1) include the appropriate use of local data, accurate representation of conditions within RRBGSA (i.e., appropriate SMCs), and alignment with RRBGSA's interests; and (2) adequately respond to DWR's identified deficiencies and the implementation of its recommended Corrective Actions. Subject to direction from RRBGSA, the finalized common chapters will be incorporated into the revised RRBGSA GSP (or referenced appropriately, depending on the final GSP structure).

As requested, EKI will also review additional materials, including the well mitigation plan, the well exceedance policy, and revisions to the coordination agreement.

Deliverables: (1) Redlined/commented Basin Setting, SMC, and Monitoring Network Sections; and (2) Redlined/commented well mitigation plan, well exceedance policy, and coordination agreement.

Key Assumptions: The SMC, Monitoring Network, and Basin Setting chapters and other Basin materials will be made available in a timely manner and will include editable written materials, map packages, and analysis source files. If the need for significant additional technical analysis on the part of RRBGSA is identified, such work efforts will be addressed either in Task 3 or through an additional Task Order.

Task 2 – Develop Remaining Sections of the GSP

Under Task 2, EKI will develop the remaining sections of the revised RRBGSA GSP, including but not limited to: Executive Summary, Introduction, Plan Area, Projects and Management Actions (P/MAs), and Plan Implementation in line with the requirements of 23-CCR §354. EKI will conduct as-needed technical analysis and incorporate relevant information from the 2022 MAP and other technical documents, data, and materials pertaining to RRBGSA's existing and planned water resources and management programs. As draft chapters are developed, EKI will submit them to RRBGSA for review. EKI will incorporate RRBGSA feedback and deliver the administrative draft of the GSP for RRBGSA's review. Upon receipt of RRBGSA's

² It is anticipated that the Basin Setting will be largely based on the on-going Basin Study efforts which is a systematic, subbasin-wide analysis to address technical data gaps in the hydrogeological conceptual model (HCM), water budgets, and model calibration.

comments, EKI will make appropriate revisions and present a draft for public review. Following the public review period, EKI will prepare a final GSP for RRBGSA's adoption.

Deliverables: (1) draft chapters; (2) Administrative GSP draft; (3) Public Review Draft GSP; and (4) Final GSP draft.

Assumptions: Underlying data and materials will be made available in a timely manner. RRBWSD will review the prepared materials and provide feedback in alignment with the project schedule. Quantitative analysis of the impacts of RRBGSA's P/MAs is anticipated to be conducted as part of the common chapter efforts (i.e., as part of the Basin Study and Basin Setting efforts).

Task 3 – As-needed Technical Support

Under Task 3, EKI will be available to respond to technical inquiries or challenges that may arise during the course of the project that is not covered under Tasks 1 and 2. While the exact scope of such support is not known at this time, EKI anticipates that some combination of services may entail conducting technical analyses to refine results and technical outputs from Basin-wide coordinated studies to be incorporated into the RRBGSA's GSP, performing corresponding analysis based on newly made available data and information that complement existing results and information, facilitating and conducting stakeholder outreach and engagement, and providing general technical support to the RRBGSA concerning the Basin-wide efforts and SWRCB process. EKI will coordinate with RRBWSD for any support that is to be conducted under this Task. As the scope of this task is difficult to quantify, EKI has included a placeholder level of effort that will extend through the end of December 2024 and includes:

- Attendance at up to eight conference calls;
- Up to four hours per week of technical support; and,
- Preparation of materials for up to two 2-hour public/stakeholder meetings for stakeholder outreach and engagement.

Deliverables: To be determined based on the services requested.

Assumptions: EKI will participate in corresponding meetings remotely. Stakeholder and outreach engagement in excess of the assumed two meetings is not foreseen in this Task and will be done under a separate task order.

Task 4 – Project Management and Client Coordination

EKI will provide routine project management and communications tasks to RRBGSA on an as-needed and as-requested basis that will be charged on a time and materials basis. Project management tasks will include: (1) periodic and routine communication with RRBGSA, (2) management of budget and schedule, (3) management and coordination of the EKI project team, (4) monthly invoicing, and (5) QA/QC activities for project deliverables. EKI will provide as-needed presentation of ongoing efforts and status updates to the RRBGSA Boards of Directors, DWR, the SWRCB, and/or other relevant stakeholder groups. The EKI Team will also provide monthly progress summary reports and budget summaries included with invoices.

Deliverables: (1) Monthly invoices and progress summary reports; and (2) Presentations and meeting materials

Assumptions: EKI will participate in corresponding meetings remotely. EKI will conduct one kick-off meeting and monthly project status calls with key RRBWSD project management staff, which will be one hour each (total of six meetings) and conducted remotely. EKI has assumed two additional presentations and 2-hour meeting attendances to update RRBWSD Board or DWR/SWRCB on GSP preparation and the work done under the above tasks.

PERSONNEL

Since 2014 EKI has been working with various entities in the Basin to comply with SGMA. In so doing, we have implemented a structure wherein unique teams of individuals within EKI support each GSA/entity to complete the applicable work efforts and to represent their specific positions. When directed by our clients, we also identify and utilize opportunities to achieve economies of scale on our billings to minimize costs (e.g., by reducing the number of people that attend Basin-wide meetings).

In order to ensure that RRBWSD is fully supported we are proposing a key technical team that has the necessary expertise in all matters of relevance to RRBWSD and that is not actively working with any other GSAs in the Basin on SGMA-related matters. EKI's senior staff members who will be available to work on this project include Amir Mani, PhD, PE (Senior 1), and Susan Xie, PE (Grade 2); grades in parentheses are for purposes of billing in accordance with the attached Schedule of Charges (**Attachment B**). Other EKI staff members may be assigned to assist with the performance of the tasks as required to meet project commitments. EKI's Statement of Qualification and staff resumes are included in **Attachment A**.

Principal in Charge (Anona Dutton, PG, CHg; Officer) will operate at a high level to engage with RRBWSD and to direct the EKI Team's efforts. In her work on all sides of issues in the Kern County Subbasin and in basins across the State, Anona has demonstrated the ability to effectively support her clients on technical and strategic matters while retaining full confidentiality and a laser focus on achieving results.

SCHEDULE

EKI is prepared to begin work immediately on this project upon receipt of authorization to proceed. EKI anticipates that the above scope of work can be completed by the end of January 2024.

COMPENSATION

Inasmuch as the exact level of effort to complete the proposed Scope of Work cannot be identified at this time, we propose that compensation for consulting services by EKI for this Scope of Work will be on a time and expense reimbursement basis in accordance with current Schedule of Charges, dated 1 January 2023, included as **Attachment B**. On the basis of the proposed Scope of Work described above, we propose a budget of \$198,000 for the performance of these initially identified services, which will not be exceeded without additional authorization from Client. EKI will inform Client of any issues that arise that may require additional efforts to address. A breakdown of the estimated budget is shown in **Table 1** below, and a detailed budget table is included in **Attachment B**.

Table 1. Estimated Budget

Task	Estimated Budget
Task 1 – Conduct Technical Review of the Basin-Wide Coordinated Efforts	\$65,000
Task 2 – Develop Remaining Sections of the GSP	\$83,000
Task 3 – As-needed Technical Support	\$34,000
Task 4 – Project Management and Client Coordination	\$16,000
TOTAL:	\$198,000

We are happy to discuss the proposed approach and anticipated level of effort for the proposed scope of work in more detail with you and look forward to working with you on this important project. Please call if you have any questions or wish to discuss this proposal in greater detail.

Very truly yours,

EKI ENVIRONMENT & WATER, INC.



Anona Dutton, PG, CHg
Vice President / Director of Water Resources

Attachments

- Attachment A. EKI Statement of Qualifications
- Attachment B. EKI 2023 Schedule of Charges and Detailed Estimated Budget

Attachment A
EKI Statement of Qualifications

GENERAL INFORMATION AND EXPERIENCE

About EKI Environment & Water, Inc. (EKI)

EKI is an employee-owned, registered S-Corporation that has provided comprehensive water resources and engineering services to public and private sector clients since our founding in 1989. Our staff includes over 100 engineers, geologists, hydrogeologists, environmental scientists, computer-aided designers, geographic information system (GIS) and database specialists, and support staff in offices throughout California and the United States (**Figure 1**).

EKI's staff comprises an effective mix of disciplines comprising water resources, engineering, environmental, and litigation support. This complementary mix is an asset to understanding and effectively resolving a wide variety of complex technical challenges.

Areas of Expertise

EKI's related planning, engineering, and hydrogeology services include:

- Strategic and technical support for SGMA compliance, including GSP development and implementation (**Figure 2**);
- Groundwater supply assessment and development, including basin safe yield assessments, aquifer testing, groundwater quality assessments, and numerical groundwater modeling;
- Water supply portfolio development and management, including water transfers;
- Aquifer storage and recovery (water for direct or ASR), and groundwater augmentation and recharge including recycled indirect potable reuse purposes;
- Land re-purposing program implementation and development of water budgets;
- Water supply, wastewater treatment and recycled water system planning, design, construction management, and program management, including cost estimation and feasibility evaluations;
- Large-capacity water supply well design, construction, and testing;
- Water resource planning, including Conservation strategic planning, UWMPs, WSAs, and Water and Wastewater Master Plans;
- Technical expert support for basin adjudication proceedings and litigation services; and,
- Local and state regulatory and permit support.



Figure 1: EKI will lead this effort primarily from our Daly City, Oakland, and Davis offices.

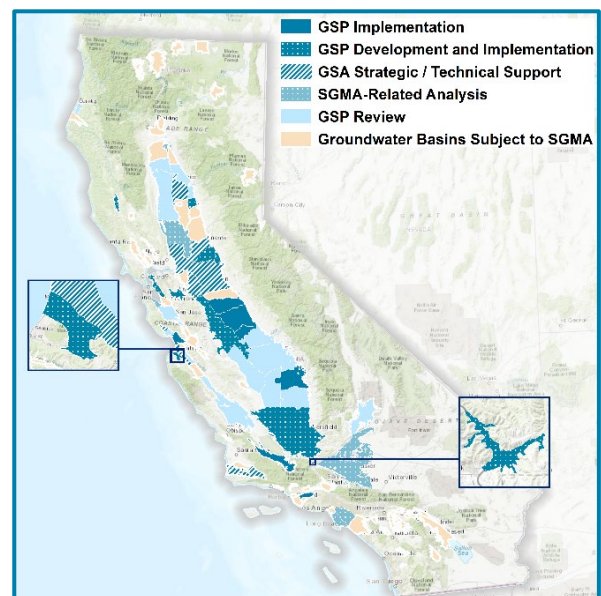


Figure 2: EKI is working with entities throughout California to develop strategic responses to comply with SGMA, including developing the technical information required for GSPs implementing projects and management actions, and securing and managing grants.

EKI’s Experience in the Kern County Subbasin

EKI has been providing technical, strategic, and administrative support to the Groundwater Sustainability Agencies (GSAs) in the Kern County Subbasin (Basin) since 2014. EKI has conducted technical analyses of critical issues that relate to SGMA compliance (e.g., water budget analytical and numerical modeling, Sustainable Management Criteria [SMCs] development, well impact analysis), and developed comprehensive Management Area Plans and GSPs. EKI has also been involved in developing strategic response to California Department of Water Resources [DWR] determination letters. Since March 2023 EKI has been providing strategic and technical support to the Basin GSAs through the evolving State Board intervention process, including revising the applicable SMCs and developing the Basin-wide coordinated response.

Ability to Commit Resources and a Dedicated Team

EKI understands that continuity of key personnel assigned to a project is a key factor in success. We are committed to the success of this project and will dedicate the staff and technical resources needed to achieve results. As the leader of EKI’s Water Resources and Engineering Group and having led teams in successful development of GSPs for several other subbasins throughout the State, Ms. Dutton and her dedicated team understand what it takes to get a GSP approved.

“Please find Monterey Subbasin GSP approval letter from DWR!! I’d like to congratulate all of you on the approval and thank you for all the hard work and effort that went into the plan. It is awesome to finally have this approved, well done!!”

RELEVANT EXPERIENCE

The Table below and the following project descriptions illustrate the EKI Team’s extensive SGMA experience. We have also provided three similar projects with references who can speak to the EKI Team’s ability to perform the requested services.

RELEVANT EXPERIENCE	SELECTED BASINS
Lead GSP Development and Implementation	Cosumnes Subbasin, White Wolf Subbasin, Kern County Subbasin, Monterey Subbasin, Castac Basin
Lead GSP Periodic Evaluation / 5-Year Update	Livermore Valley Basin
Technical Assistance Following GSP Determination / State Board Intervention	Kern County Subbasin, Kaweah Subbasin, Delta-Mendota Subbasin, Kings Subbasin
Support for GSP Development and/or Implementation	Delta-Mendota Subbasin, Cuyama Basin, North Yuba Subbasin, Turlock Subbasin, Santa Ynez Valley Basin, Eastern San Joaquin Subbasin, East Bay Plain Subbasin, Merced Subbasin
Basin-Scale Numerical Model Development and/or Application	Cosumnes Subbasin, White Wolf Subbasin, Kern County Subbasin, Monterey Subbasin, Castac Basin, Delta-Mendota Subbasin, Westside Basin, Cuyama Basin, Solano Subbasin, Eastern San Joaquin Subbasin, Turlock Subbasin, San Mateo Plain Subbasin
Basin Boundary Modification and Basin Re-prioritization	Kern/White Wolf Subbasins, Eastern San Joaquin/Tracy Subbasins

RELEVANT EXPERIENCE	SELECTED BASINS
Monitoring and Data Management / Preparation of Annual Reports / Database Management	Kern County Subbasin, San Mateo Plain Subbasin, White Wolf Subbasin, Monterey Subbasin, Cosumnes Subbasin, Castac Basin
Grant Application and Administration	Cosumnes Subbasin, White Wolf Subbasin, City of East Palo Alto, Valley of the Moon Water District, Monterey Subbasin, Westlands Water District, Chowchilla Subbasin, North Coast County Water District, Ukiah Basin, Santa Inez Valley Basin
Community and Stakeholder Outreach and Engagement	Cosumnes Subbasin, White Wolf Subbasin, Delta-Mendota Subbasin, Monterey Subbasin, Merced Subbasin, Kern County Subbasin, San Mateo Plain Subbasin, Castac Basin
Litigation Support Services	Las Posas Subbasin, Antelope Valley Basin, Kern County Subbasin, Chino Basin, Salinas Valley Basin

White Wolf Subbasin GSP Development and SGMA Implementation

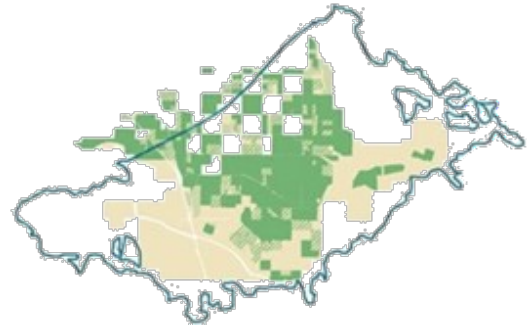
EKI has been providing technical, strategic, and administrative support to the White Wolf GSA (which includes Arvin-Edison Water Storage District [AEWSD], Kern County, Tejon-Castac Water District [TCWD], and Wheeler-Ridge Maricopa Water Storage District [WRMWS]) with their strategic response to SGMA in the White Wolf Subbasin since 2014.

Work to date has included the development and filing of a successful basin boundary modification request to subdivide the Kern County Subbasin into two subbasins – the Kern County Subbasin and the White Wolf Subbasin (WWB). DWR approved the request and told the GSA that the request prepared by EKI was “the best one they had ever seen”. On behalf of the GSA, EKI also successfully petitioned DWR to remove the “critically overdrafted” status from the newly formed WWB and re-classify the basin as Medium priority.

Other SGMA-related efforts have included support for GSA formation and administration, development of successful Proposition 1 and 68 grant applications (including in the most recent, very competitive Round 3 in 2023), development of a single, coordinated GSP, Annual Report, and numerical groundwater model development and application. The groundwater model is being applied to facilitate optimization of projects and management actions (P/MA) implementation, including assessing the effectiveness of demand management measures and recharge basin development. EKI is also supporting public and stakeholder outreach, including preparing and giving presentations, and facilitating landowner and other stakeholder meetings.

Key Project Outcomes to Date:

- Successful basin boundary modification request:
- Adoption and submission of a 2022 GSP (DWR review pending): <https://sgma.water.ca.gov/portal/service/gspdocument/download/7769>
- Water Year 2022 Annual Report: <https://sgma.water.ca.gov/portal/service/gspar/document/2712>



Project Facts

Project Duration: 2014 – present

Location: Kern County

Client Reference

Jeevan Muhar, PE, Engineer-Manager

Arvin-Edison Water Storage District

PO Box 175, Arvin, CA 93203

Direct: (661) 854-5573

Mobile: (661) 747-0062

jmuhar@aewsd.org

Similar Tasks Completed

- GSP development and implementation
- Numerical groundwater model development and application
- Effective advocacy through the SGMA regulatory process
- Stakeholder outreach and engagement

EKI’s Knowledge Will Provide:

- ✓ Comprehensive knowledge of the SGMA requirements
- ✓ Effective stakeholder engagement and communication
- ✓ Effective support for multi-party decision making

Cosumnes Subbasin GSP Development and SGMA Implementation

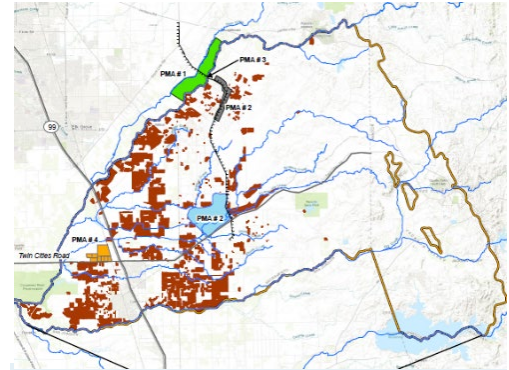
EKI has been actively working in the Cosumnes Subbasin since 2017. In our role as strategic technical advisor and GSP consultant, EKI is assisting the seven GSAs in the basin to develop and implement a comprehensive strategy for SGMA compliance, including preparation and implementation of a single, coordinated GSP. A key issue in this basin is the presence of inter-connected surface water along the Cosumnes River, which is the only un-dammed river in the southern San Joaquin Valley.

EKI's other SGMA-related efforts have included support for GSA formation and administration, development of successful Proposition 1 and 68 grant applications, geophysical investigations, Annual Report submission, and numerical groundwater model development. The groundwater model is being applied to facilitate optimization of P/MA implementation, including assessing the effectiveness of demand management measures and recharge basin development, and is supporting data gap filling efforts. EKI is also supporting public and stakeholder outreach, including preparing and giving presentations, and facilitating landowner and other stakeholder meetings.

As part of its support for GSA administration, EKI develops meeting agendas, 3-month "look ahead" schedules to support timely decision-making, and meeting presentations; supports the formation and administration of several ad-hoc committees; and is providing regular reporting and data management system support.

Key Project Outcomes to Date:

- Adoption and submission of a 2022 GSP (DWR review pending): [Basin Boundary Modification Request System](#)
- Water Year 2022 Annual Report: <https://sgma.water.ca.gov/portal/service/gspar/document/2520>



Project Facts

Project Duration: 2017 – present
Location: Sacramento County

Client Reference

Kerry Schmitz
Water Supply Division Chief
Sacramento County DWR
801 I Street, Room 301
Sacramento, CA 95814
Direct: (916) 874-4681
Schmitzk@saccounty.net

Similar Tasks Completed

- Technical and strategic support to the seven GSAs in the Cosumnes Subbasin to implement SGMA
- GSP development and implementation
- Numerical groundwater model development and application

EKI's Knowledge Will Provide:

- ✓ Experience with inter-connected surface water issues
- ✓ Comprehensive knowledge of the SGMA requirements
- ✓ Effective stakeholder engagement and communication
- ✓ Effective support for multi-party decision making

Monterey County Subbasin GSP Development and SGMA Implementation

EKI has been actively working in the Monterey and 180/400 Subbasins of the Salinas Valley Basin since 2014. EKI supported the Marina Coast Water District in leading the preparation of the Monterey Subbasin GSP in collaboration with the Salinas Valley Basin Groundwater Sustainability Agency and has been an active participant in the development and implementation of the 180/400 GSP. These documents outline joint management of these basins by the two agencies over the next 20 years.

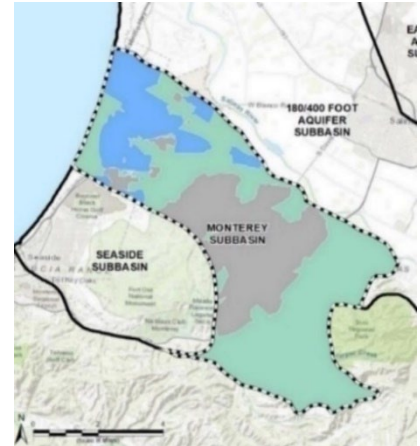
EKI’s contributions to this work effort have, and continue to, include inter-agency coordination and stakeholder outreach, assessment of hydrogeologic and groundwater conditions including seawater intrusion, development of a numerical groundwater model to facilitate water budget and P/MA analyses (including the injection of purified recycled water into the deeper aquifers), establishment of sustainable management criteria, and data collection and management.

The funding for GSP development and implementation has been secured through successful applications prepared by EKI for DWR’s Round 2 and Round 3 Sustainable Groundwater Planning Grant Programs.

Key Project Outcomes:

On April 27, 2023, the DWR approved the 2022 GSP that EKI prepared for the Salinas Valley Basin – Monterey Subbasin.

- Monterey Subbasin GSP Approval in 2023
[SGMA Groundwater Management \(SGMA\) Portal - Department of Water Resources \(ca.gov\)](https://sgma.water.ca.gov/portal/service/gspar/document/2779)
- Water Year 2022 Annual Report:
<https://sgma.water.ca.gov/portal/service/gspar/document/2779>



Project Facts:

Project Duration: 2014 – present

Location: Monterey County

Client Reference:

Patrick J. Breen
Water Resources Manager
Marina Coast Water District
11 Reservation Road
Marina, CA 93933
Phone: (831) 883-5951
Mobile: (831) 233-9718
pbreen@mcwd.org

Similar Tasks Completed

- Technical and strategic support for GSP development and implementation, including approval by DWR
- Development and application of a numerical groundwater model
- Multi-party coordination

EKI’s Knowledge Will Provide:

- ✓ Comprehensive knowledge of the SGMA requirements
- ✓ Effective stakeholder engagement and communication
- ✓ Effective support for multi-party decision making

PROJECT TEAM

EKI Team Organization

EKI has assembled a team of highly experienced and specialized professionals to support RRBGSA with strategic, technical and administrative efforts related to developing the revised GSP and addressing the deficiencies identified by DWR. Detailed resumes of our proposed team members are provided herein. These team members will be supported by other qualified EKI staff as appropriate.

EKI Team Personnel

At EKI, we understand that the successful completion of a project is founded on the performance of key individuals. We are aware of the importance our clients place on the selection of a capable Project Manager supported by technical specialists to effectively guide their projects to completion. Key EKI Team member roles, qualifications, educational background, and certifications are highlighted below, with resumes following.

Anona Dutton, PG, CHg – Principal in Charge



- Professional Geologist in California (#7683)
- Certified Hydrogeologist in California (#841)
- MS, Hydrogeology, Stanford University, 2000
- BS, Environmental Sciences, Stanford University, 1998

Ms. Dutton has over 20 years of professional experience performing and managing integrated water resources projects. She has managed multi-million-dollar efforts to secure reliable water supplies for water agencies, including leading the technical efforts to assess groundwater and surface water rights and supply yields; securing water transfer options; and evaluating the feasibility of developing new water supply sources such as recycled water and desalination water. Ms. Dutton has worked closely with multiple GSAs across the state to respond effectively to SGMA, including GSA formation and administration, GSP development and implementation, stakeholder engagement, and annual reporting.

Ms. Dutton has been providing technical, strategic, and administrative support to the GSAs in the Basin since 2021. She has supported administrative efforts related to GSP implementation, served as a technical resource to the Basin on a variety of efforts, and has been leading Basin’s response to the DWR Inadequate determination / SWRCB intervention process since March 2023.

As Principal in Charge, Ms. Dutton will conduct QA/QC, and develop project goals and technical approach. She will also provide strategic and technical direction, support communication and coordination efforts, and ensure that staff resources are available to meet project needs.

Amir Mani, PhD, PE – Project Manager



- Professional Civil Engineer in California (#C89426)
- Ph.D., Civil and Environmental Engineering, Louisiana State University, 2016
- M.S., Civil and Environmental Engineering, University of Tehran, 2011
- B.S., Civil Engineering, University of Tehran, 2009

Dr. Mani has more than 13 years of academic and project experience in integrated water resources management and modeling, groundwater supply development, climate change adaptation and mitigation strategies, wastewater and recycled water program implementation, permitting, and compliance. Dr. Mani has been deeply involved with SGMA implementation in several basins across the state, supporting the development and implementation of multiple GSPs, and conducting special studies such as development of groundwater allocation frameworks, integrated hydrological models, and data management and automation. He has been supporting Basin’s response to the DWR Inadequate determination / SWRCB intervention process since March 2023.

As Project Manager, Dr. Mani will be the primary point of contact, will track budget and overall project schedule, coordinate the team’s work on a daily basis, and oversee project implementation.

Susan Xie, PE – Water Resources Engineer



- Professional Civil Engineer in California (#93254)
- M.S., Environmental Engineering, University of California, Berkeley, 2018
- B.S., Civil and Environmental Engineering, University of California, Los Angeles, 2017

Ms. Xie has more than five years of experience in environmental engineering with a focus on water resources. She has experience in supporting public and private clients in developing strategic responses to the SGMA, developing and implementing GSP, and providing other technical and management services related to groundwater supply and quality. She also provides technical support for other water resource projects that involve groundwater data processing and numerical modeling. Her comprehensive skills base in several areas, including data analysis with MATLAB, R, Python, and Excel VBA, civil design with AutoCAD, data management with Access, data visualization with ArcGIS. Her educational background in civil and environmental engineering combined with her analytical skills make her a strong asset on water resources projects including SGMA implementation, GSP and Annual Report development.

As Water Resources Engineer, Ms. Xie will conduct technical review of the basin-wide coordinated efforts, develop sections of the GSP, perform as-needed technical support, and prepare meeting materials.

Anona L. Dutton, PG, CHg Vice President / Principal-in-Charge

Ms. Dutton has over twenty years of professional experience managing water resources projects. She has managed multi-million dollar efforts to secure reliable water supplies for water agencies and developers, including leading the technical efforts to minimize the water footprint of new and existing development, assessing groundwater and surface water supply yields, supporting development of groundwater allocations within and outside of basin adjudications, securing water transfer options, and evaluating the feasibility and cost of developing new water supply sources such as recycled water, desalination water, and other non-potable sources.

Ms. Dutton is deeply involved in implementation of the Sustainable Groundwater Management Act (SGMA) throughout the State, including provision of strategic and technical support for Groundwater Sustainability Agency (GSA) formation and administration, basin boundary adjustments, Groundwater Sustainability Plan (GSP) development, approval and implementation, and securing grant funding. She has actively supported the GSAs in the Kern County Subbasin since 2014.

Relevant Experience

- **Sustainable Groundwater Management Act (SGMA).** *Multiple Clients, CA.* Ms. Dutton's recent SGMA work includes supporting coordination among GSA member agencies and between multiple GSAs, securing Proposition 1, Proposition 68 and Technical Support Services grant funding, basin boundary modifications, GSP preparation and implementation, and Annual Report preparation. As part SGMA compliance, she is overseeing stakeholder engagement efforts, assessments of groundwater conditions, numerical groundwater modeling, development of sustainability criteria, and projects and management actions (P/MAs). Her SGMA projects span California including:
 - Kern County Subbasin
 - Delta-Mendota Subbasin
 - Castac Lake Valley Basin
 - Cosumnes Subbasin
 - Merced Subbasin
 - Cuyama Valley Basin
 - Chowchilla Subbasin
 - North Yuba Subbasin
 - Turlock Subbasin
 - White Wolf Subbasin
 - Santa Inez Valley Basin
 - Eastern San Joaquin Subbasin
 - Livermore Valley Basin
 - San Mateo Plain Subbasin
 - Kaweah Subbasin
 - Monterey Subbasin
 - East Bay Plain Subbasin



Education

- M.S., Hydrogeology, Stanford University, 2000
- B.S., Environmental Sciences, Stanford University, 1998

Registrations/

Certifications

- Professional Geologist, California (#7683)
- Certified Hydrogeologist, California (#841)

Technical Expertise

- Strategic and Technical SGMA Planning and Implementation
- Groundwater Banking Development and Performance Analysis
- Successful Grant Writing and Administration
- Hydrogeologic Investigation and Sustainable Yield Estimates
- Numerical Groundwater Modeling
- Stakeholder Engagement
- Successful Advocacy to Regulatory Agencies
- Litigation Support

- **Technical and Strategic Support for Land Repurposing and Groundwater Allocation Programs.** *Merced Subbasin GSA*, Merced County, CA. Ms. Dutton is overseeing EKI's work to provide technical and strategic support for the land repurposing program (LRP) and the groundwater allocation programs in the Merced Subbasin. The program objective is to reduce consumptive groundwater demand by 15,000 AFY by 2025. EKI is centrally involved in the development of all LRP components, including the landowner application process, scoring framework, contracting, support for the basin's Proposition 218 process and associated cost estimation and outreach materials including a FAQ document. She is now leading the effort to allocate the sustainable yield to landowners within the basin.
- **Technical and Strategic Water Resources Support.** *South of Kern River GSAs*, CA. Since 2014 Ms. Dutton has provided strategic technical support to Arvin-Edison Water Storage District, Tejon-Castac Water District, Wheeler Ridge-Maricopa Water Storage District in groundwater sustainability matters. She is leading efforts to comply with SGMA in the White Wolf and Kern County Subbasins, including GSP preparation and implementation, and numerical model development and application. She is supporting efforts to develop conjunctive use projects and to maintain water quality and prevent additional subsidence impacts to the Friant-Kern Canal. She is supporting the costing, prioritization and implementation of P/MAs related to successfully procuring grant funds and developing land-repurposing and other demand reduction programs, in addition to supply augmentation projects. She developed a water rights-based water budget and groundwater allocation method that considered native safe yield, the surface water imports and water banking operations, and historical water use information for the GSAs and local landowners. She is currently supporting the Kern Subbasin through the State Board intervention process.
- **Technical and Strategic Water Resources Support.** *Zone 7 Water Agency*, Alameda County, CA. Ms. Dutton lead the development of a Conjunctive Use (CU) Study to support Zone 7 to identify the preferred integration of known and potential future sources and new infrastructure to increase yield, operations, and reliability. The CU Study considered a variety of sources and options, including optimization of the groundwater basin, recharge of imported and reclaimed water, investments in LVE and Sites reservoir, and water bank operation, among other things. She also prepared the Periodic Evaluation for the approved Livermore Valley Basin Alternative GSP, supported preparation of several Annual Reports, and successfully secured the highest award in the state from the Round 3 grant solicitation for the Zone 7 GSA.
- **Las Posas Subbasin Adjudication.** Ventura County, CA. Ms. Dutton provides technical expert services in support of the groundwater basin adjudication effort in the Las Posas Subbasin. EKI estimated the native safe yield of the Basin and developed detailed a history of documented overdraft conditions in the Basin using historical documents, data, and the existing numerical models of the subbasin. Water level data, pumping estimates, and State Water Project water imports were compiled and analyzed to support findings that without the importation and use of imported water, including by our client, the Basin would be in overdraft. Ms. Dutton authored a technical expert report and declaration which included quantification of groundwater pumped from client wells compared to that from the entire Basin to support a successful prescriptive water rights claim during adjudication negotiations.

Amir Mani, PhD, PE

Senior Water Resources Engineer/Project Manager

Dr. Amir Mani is a Professional Civil Engineer in the state of California and has expertise in various water resources engineering services including integrated water resources management, hydrology, groundwater management and modeling, climate change adaptation and mitigation strategies, water distribution networks, wastewater and recycled water permitting and compliance and data analysis and management. In recent years, he has been heavily involved in assisting multi-stakeholder clients to comply with the requirements of the Sustainable Groundwater Management Act (SGMA) through the development and implementation of groundwater sustainability plans (GSPs). He has also supported clients with regulatory compliance and permit negotiations by developing compliance strategies and plans, monitoring design and implementation, data analysis and management and conducting special studies.



Relevant Experience

- **Development and Implementation of GSPs. Multiple Clients,** Northern California. As Project Manager and technical member Dr. Mani is developing, submitting, and implementing GSPs for multiple GSAs. His duties include overall project management; stakeholder management and outreach; administration of board, technical committee, and public meetings; development of integrated hydrological models; simulation of historical, current, and future conditions of the basins and water systems; adaptation planning to climate change; developing and prioritizing short-term and long-term projects and management actions; grant writing and application; annual report preparation; assisting in the development of sustainable management criteria and defining management policies and preparation of the draft and final GSPs.
- **SGMA Support to Address Inadequate Determination.** *San Luis Delta-Mendota Water Agency*, Central Valley, CA. As Technical lead, Dr. Mani is assisting a group of 26 GSAs to respond to the inadequate determination of the six revised GSPs. He is leading the development of the revised water budget, performing hydrological model simulations, and preparing technical materials to be further applied to GSP's

Education

- Ph.D., Civil & Environmental Engineering, Louisiana State University, 2016
- M.S., Civil and Environmental Engineering, University of Tehran, 2011
- B.S., Civil Engineering, University of Tehran, 2009

Registrations/Certifications

- Professional Engineer, CA (#C89426)

Affiliations

- Member, ASCE
- Member, WaterReuse Association of California
- Member, Groundwater Resources Association of California (GRA)
- Member, California Water and Environmental Modeling Forum (CWEMF)

Technical Expertise

- SGM Planning and Implementation
- Regulatory Compliance and Permit Negotiation
- Hydrogeologic Modeling

2025 update and helping facilitate State Water Resources Control Board's hearing and probation determination.

- **GSP Implementation Assistance.** *East Turlock Subbasin Groundwater Sustainability Agency, Stanislaus County, CA.* As Project Manager and technical member Dr. Mani is leading the development of water rights-based water allocation frameworks, client coordination, meeting management and presentations, scenario generation and hydrological model simulation. Dr. Mani's work helped advance water allocation discussions in the Subbasin and transformed previous work to better conform to settled case law and California water rights.
- **GSP Implementation.** *Lindsay-Strathmore Irrigation District, Tulare County, CA.* As Project Manager and technical member, Dr. Mani is providing SGMA compliance and GSP implementation assistance to the District. He is leading fine-scale assessment of water budget and water allocation in the District, evaluation of GSP implementation and sustainable management criteria on the District's operation, and overall assistance in decision-making regarding Subbasin's GSP implementation.
- **Establishing Water Resources Team.** *Mendocino County Water Agency, Mendocino County, CA.* AS Project Manager and technical lead, Dr Mani is providing assistance to the County in reorganizing its Water Agency, improving its drought preparedness and County-wide water reliability, facilitating coordination and communication with federal, state, and local agencies and stakeholders, and providing overall staff augmentation services.
- **Salt and Nutrient Management Plan.** *County of Ventura, Ventura, CA.* As Technical Lead, Dr. Mani developed the SNMP and regional board coordination for the five basins in Ventura County. This effort included evaluating basin conditions, developing basin settings, identifying appropriate methodology, estimating assimilative capacity, groundwater flow and fate and transport modeling, and future salts and nutrient concentrations projections.
- **Integrated Hydrological Modeling.** *City of St. Helena, Sacramento County, City and County of Los Angeles, and Calleguas Creek Watershed Management Group, CA.* As Project Manager and Supervising Modeler, Dr. Mani developed surface water and watershed, groundwater flow, and integrated hydrological models. Modeling platforms included USGS-PRMS, USGS-MODFLOW, USGS-GSFLOW, HSPF/LSPC, and CVHM. His duties included stakeholder and client communication and management; model development, calibration, verification, and documentation; periodic updates; preparation of testimonies; and presentation of results.
- **Recycled Water Program Implementation.** *Monterey One Water, City of Hesperia, Town of Apple Valley, Sonoma County and Sonoma Water, City of Healdsburg, City of Calistoga, and City of Ukiah, CA.* As Technical Lead Dr. Mani prepared program guidelines for regulatory and permitting procedures and conducted mandatory inspections and reporting. He developed engineering reports and notices of intent for compliance under General Order. He also assisted in permit compliance activities including conducting special studies, assisting with monitoring and reporting requirements, and responding to compliance and enforcement issues.

Susan Xie, PE

Water Resources Engineer

Ms. Xie has more than five years of experience in environmental engineering with a focus on water resources. She has experience in supporting public and private clients in developing strategic responses to the Sustainable Groundwater Management Act (SGMA), including the preparation of Groundwater Sustainability Plans (GSPs), and providing technical and management services for other water resource projects related to groundwater supply and quality, groundwater data processing, and numerical modeling. Her comprehensive skills cover several areas, including data analysis with MATLAB, R, and Excel VBA, civil design with AutoCAD, data management with Access, and data visualization with ArcGIS. Her educational background in civil and environmental engineering combined with her analytical skills make her a strong asset on water resources projects.



Relevant Experience

- Management Area Plan (MA Plan) Development.** *Shafter-Wasco Irrigation District*. Kern County, CA. Ms. Xie has helped to develop a MA Plan for a formerly undistricted area (“white lands”) in the Kern County Subbasin, that was recently annexed into the Shafter-Wasco Irrigation District service area. This work has included, among other things, stakeholder outreach and coordination between other entities in the GSA and Basin; development of a conceptual water budgets as a means of estimating historical, current, and projected future water resource availability within the Management Area; defining “Undesirable Results” related to groundwater overdraft conditions to develop “Sustainability Criteria” that to protect from negative impacts of groundwater withdrawals; and identification of projects and management actions to support sustainability in an area that has historically utilized only groundwater and recycled water supplies to support primary agricultural and industrial activities.
- Alternative GSP Update.** *Zone 7 Water Agency*. Alameda County, CA. Ms. Xie has helped to develop the Alternative GSP for the Zone 7 Water Agency GSA (Zone 7). She worked with Zone 7 staff to identify and obtain stratigraphic data for wells in efforts to improve coverage of the e-log network across the Livermore Valley Groundwater Basin. She integrated these data into 3-dimension geologic modeling software, and developed model and cross-section profiles of the basin. Ms.

Education

- M.S., Environmental Engineering, Water Resources Engineering, University of California, Berkeley, 2018
- B.S., Civil and Environmental Engineering, University of California, Los Angeles, 2017

Registrations/Certifications

- Professional Engineer, CA (#93254)
- 40-hour OSHA HAZWOPER Training Course

Affiliations

- Active member, Groundwater Resources Association of California

Technical Expertise

- Groundwater Sustainability Planning
- Urban Water Management Planning (UWMPs)
- Water Supply Assessments (WSAs)

Xie also took a lead role in data analysis as it pertains to identify Groundwater Dependent Ecosystems (GDE). She evaluated the correlation between depth to groundwater and GDE health related indexes, and performed statistical tests to verify any new potential GDEs.

- **Castac Lake Groundwater Basin GSA Groundwater Sustainability Plan (GSP) Development.** *Tejon-Castac Water District.* Lebec, CA. Ms. Xie has helped in GSP development for the Castac Basin GSA. She has taken a lead role in data analysis as it pertains to Sustainability Management Criteria (SMC) development and strategic planning. Ms. Xie developed a numerical model of groundwater elevation to evaluate SMC, including Interim Milestones, Measurable Objectives, and Minimum Thresholds, within the Castac Basin, and performed well dewatering analysis based on the developed SMC. She also built a MATLAB program to calculate trends in groundwater quality data, test whether the trends are statistically significant, and plot groundwater elevation data with groundwater quality data to examine their correlation.
- **Review of Multiple Public Draft Groundwater Sustainability Plans (GSPs).** *Confidential Clients.* California. Ms. Xie performed technical reviews of multiple draft GSPs for critically overdrafted basins across California to assess key stakeholder issues identified by clients. The reviews prepared by Ms. Xie were used as the basis for our clients' work to advocate to the respective Groundwater Sustainability Agencies (GSAs) for changes in strategic and analytical approaches within the GSPs. The technical review included evaluating the potential impacts that may result from water levels reaching the minimum thresholds proposed in the GSPs, assessing the proposed monitoring network for groundwater levels and water quality, identifying critical data gaps and uncertainties in the GSPs, and estimating the costs for to incorporate additional monitoring into the proposed monitoring plans.
- **Las Posas Subbasin Adjudication.** Ventura County, CA. Ms. Xie helped the team to provide technical expert services in support of the groundwater basin adjudication effort in the Las Posas Subbasin. EKI estimated the native safe yield of the Basin and developed detailed a history of documented overdraft conditions in the Basin using historical documents, data, and the existing numerical models of the subbasin. Water level data, pumping estimates, and State Water Project water imports were compiled and analyzed to support findings that without the importation and use of imported water, including by our client, the Basin would be in overdraft.
- **Water Supply and Water Quality Study.** *Confidential Client.* Kern County, CA. Ms. Xie has provided technical support for assessing viability and security of a water banking and exchange program within area of interest, and potential future costs associated with recovering banked water, particularly related to potentially increased arsenic concentrations and increased pumping lift. Ms. Xie quantified projected groundwater storage losses using aquifer specific yield and digital raster surfaces of measured and projected water level. She developed a composite hydrograph to represent the average water level within area of interest and projected composite water levels under multiple scenarios. Ms. Xie has also evaluated the water quality impacts due to change in projected water level, and helped to developed treatment options with a range of potential future costs.

Attachment B

EKI 2023 Schedule of Charges and Detailed Estimated Budget

SCHEDULE OF CHARGES FOR EKI ENVIRONMENT & WATER, INC.

1 January 2023

<u>Personnel Classification</u>	<u>Hourly Rate</u>
Officer and Chief Engineer-Scientist	332
Principal Engineer-Scientist	320
Supervising I, Engineer-Scientist	309
Supervising II, Engineer-Scientist	298
Senior I, Engineer-Scientist	286
Senior II, Engineer-Scientist	275
Associate I, Engineer-Scientist	264
Associate II, Engineer-Scientist	248
Engineer-Scientist, Grade 1	231
Engineer-Scientist, Grade 2	218
Engineer-Scientist, Grade 3	200
Engineer-Scientist, Grade 4	178
Engineer-Scientist, Grade 5	157
Engineer-Scientist, Grade 6	138
Project Assistant	130
Technician	125
Senior GIS / Database Analyst	162
CADD Operator / GIS Analyst	144
Senior Administrative Assistant	159
Administrative Assistant	124
Secretary	104

Direct Expenses

Reimbursement for direct expenses, as listed below, incurred in connection with the work will be at cost plus fifteen percent (15%) for items such as:

- a. Maps, photographs, reproductions, printing, equipment rental, and special supplies related to the work.
- b. Consultants, soils engineers, surveyors, drillers, laboratories, and contractors.
- c. Rented vehicles, local public transportation and taxis, travel, and subsistence.
- d. Special fees, insurance, permits, and licenses applicable to the work.
- e. Outside computer processing, computation, and proprietary programs purchased for the work.

A Communication charge for e-mail access, web conferencing, cellphone calls, messaging and data access, file sharing, local and long distance telephone calls and conferences, facsimile transmittals, standard delivery U.S. postage, and incidental in-house copying will be charged at a rate of 4% of labor charges. Large volume copying of project documents, e.g., bound reports for distribution or project-specific reference files, will be charged as a project expense as described above.

Reimbursement for company-owned automobiles, except trucks and four-wheel drive vehicles, used in connection with the work will be at the rate of sixty cents (\$0.60) per mile. The rate for company-owned trucks and four-wheel drive vehicles will be seventy-five cents (\$0.75) per mile. There will be an additional charge of thirty dollars (\$30.00) per day for vehicles used for field work. Reimbursement for use of personal vehicles will be at the federally allowed rate plus fifteen percent (15%).

CADD and other specialized software computer time will be charged at twenty dollars (\$20.00) per hour. In-house material and equipment charges will be in accordance with the current rate schedule or special quotation. Excise taxes, if any, will be added as a direct expense.

Rate for professional staff for legal proceedings or as expert witnesses will be at a rate of one and one-half times the Hourly Rates specified above.

The foregoing Schedule of Charges is incorporated into the Agreement for the Services of EKI Environment & Water, Inc. and may be updated annually.

Table 1. Detailed Estimated Budget

TASK(S)	EKI Labor (hrs)				Total EKI Labor, including 4% Communication Charge ⁽¹⁾	Expenses	Total Requested Budget
	Anona Dutton, PG, CHG	Amir Mani, PhD, PE	Susan Xie, PE	Grade 5 Engineer/ Hydrogeologist		Other Direct Costs ⁽²⁾	
	\$332	\$286	\$218	\$178		(\$)	
Task 1 – Conduct Technical Review of the Basin-Wide Coordinated Efforts	32	60	100	80	\$64,630	\$500	\$65,000
Task 2 – Develop Remaining Sections of the GSP	32	50	175	100	\$81,925	\$1,000	\$83,000
Task 3 – As-needed Technical Support	12	36	48	48	\$33,571	\$0	\$34,000
Task 4 – Project Management and Client Coordination	15	34	0	0	\$15,292	\$500	\$16,000
Total	91	180	323	228	\$195,418	\$2,000	\$198,000

Notes:

(1) A communications charge of 4% of labor costs covers e-mail access, web conferencing, cellphone calls, messaging and data access, file sharing, local and long-distance telephone calls and conferences, facsimile transmittals, standard delivery U.S. postage, and incidental in-house copying.

(2) "Other Direct Costs" includes direct expenses, as listed below, incurred in connection with the work and will be reimbursed at cost plus fifteen percent (15%) for items such as:

- a. Maps, photographs, reproductions, printing, equipment rental, and special supplies related to the work.
- b. Consultants, soils engineers, surveyors, drillers, laboratories, and contractors.
- c. Rented vehicles, local public transportation and taxis, travel and subsistence.
- d. Special fees, insurance, permits, and licenses applicable to the work.
- e. Outside computer processing, computation, and proprietary programs purchased for the work.



August 4, 2023

PROPOSAL – SCOPE OF WORK

To: Trent Taylor, Rosedale-Rio Bravo WSD
Dan Bartel, Rosedale-Rio Bravo WSD

From: Mike Maley, PG, CHG, Principal Hydrogeologist, Todd Groundwater
Phyllis Stanin, PG, CHG, Vice-President, Todd Groundwater

Re: **Proposal** –Groundwater Sustainability Plan (GSP) Preparation
Rosedale-Rio Bravo Groundwater Sustainability Agency

The Rosedale-Rio Bravo Water Storage District Groundwater Sustainability Agency (RRBGSA) is located in the critically overdrafted Kern County Groundwater Subbasin (Subbasin). Water management in the Subbasin is governed by a myriad of water districts, water storage districts, irrigation districts, and municipalities that rely on the shared groundwater resources. To comply with the Sustainable Groundwater Management Act (SGMA), local agencies have organized into Groundwater Sustainability Agencies (GSAs) that are coordinating on the preparation of Groundwater Sustainability Plans (GSPs) covering the entire Subbasin.

In May 2023, the RRBGSA formed a governance structure and took initial steps toward the preparation of a RRBGSA GSP for submittal to the State Water Resources Control Board (SWRCB). The RRBGSA was originally part of the Kern Groundwater Authority (KGA) that submitted a regional Groundwater Sustainability Plan (GSP) for its members to the Department of Water Resources (DWR) in January 2020. In January of 2022, DWR determined that the 2020 Subbasin GSPs were collectively Incomplete, submitted in July 2022 to address those deficiencies. In March of 2023, DWR determined that the revised GSPs were collectively Inadequate, a determination that transferred the oversight of the Subbasin GSPs from DWR to the SWRCB.

In their May 16, 2023 letter, the RRBGSA noted that the primary issues in both DWR letters focused on the same thing - the lack of Subbasin-wide coordination on the GSPs. The RRBGSA found that the only path to an approved set of Subbasin GSPs is through improved and consistent Subbasin-wide coordination. The RRBGSA looks to be more fully engaged in Subbasin-wide coordination efforts to to achieve approved GSPs in the most efficient and timely manner possible.

We understand that the goal of the RRBGSA is to develop a concise GSP that is coordinated with the other GSPs submitted with respect to content, formatting and methodologies. RRBWSD staff developed the existing Management Area Plan (as part of the KGA GSP) and district staff will continue as the technical lead for the RRBGSA GSP. We understand that the Todd Groundwater role for the RRBGSA GSP is primarily document preparation consistent with the other Subbasin GSPs. Submission of the RRBGSA GSP will be aligned with the other Subbasin-wide GSPs to address the March 2023 Inadequate Determination deficiencies. The following section outlines our approach for preparing the RRBGSA GSP.

APPROACH FOR AN INTEGRATED GROUNDWATER SUSTAINABILITY PLAN (GSP)

We understand the one of the key “GSA needs” is the stated goal to *“improve basin-wide coordination and ensure that we are fully-engaged in the process of achieving basin-wide sustainability and obtaining approval of a basin-wide plan;”* The RRBGSA intends to adhere to this theme throughout the GSP preparation process. The intent of this GSP is to outline effective and adaptive local management, which is allowed by the GSP regulations to satisfy local values and needs. Accordingly, our approach is to prepare a GSP that complies with SGMA regulations, provides a level of detail commensurate with available data and basin issues, and considers a long-term view of adaptive management for the RRBGSA.

One of the concerns in the March 2023 Inadequate Determination was the variability of report formatting and overall complexity of the documents, which made the GSPs difficult for DWR to review. To support the ultimate goal of GSP approval, we will look to streamline the text and improve the presentation of information to allow SWRCB and DWR staff reviewers to find the information they need to facilitate their review.

The March 2023 deficiencies identified by DWR primarily address the development of coordinated sustainable management criteria (SMCs) for the primary sustainability criteria for the chronic lowering of groundwater levels and land subsidence. Currently, there are multiple coordinated efforts underway to develop a response to the March 2023 Inadequate Determination deficiencies. Therefore, the Subbasin-wide coordinated changes will focus on the section(s) that directly address the following:

- Sustainability Goal
- Definition of Undesirable Results
- Development of Minimum Thresholds, Measurable Objectives and Interim Milestones

In addition, a Subbasin-wide Basin Setting section is planned to provide more consistent content that will be incorporated into all of the Subbasin GSPs. We anticipate that these efforts will eventually coalesce around a single approach to the Basin Setting. We will incorporate this agreed-upon Subbasin-wide coordinated approach for addressing the March 2023 deficiencies into the RRBGSA GSP that will be submitted along with GSPs from the other Subbasin GSAs. Todd Groundwater is an active participant in these ongoing efforts, including membership in the Technical Working Group assisting the Subbasin Coordination Committee. We will work with the RRBGSA members to evaluate how these approaches may affect the Revised RRBGSA GSP.

Furthermore, it is anticipated that recommendations for presentation of data, analysis and other information will be developed for use in all of the Subbasin GSP to present information, analyses, and results in a more standardized formats. The objective of these modifications is to provide more cohesion between the multiple GSPs submitted by the Subbasin GSAs that will allow SWRCB staff to more readily compare the approach, methodologies and results used in the multiple Subbasin GSPs.

We will incorporate these modifications in the Revised RRBGSA GSP; however, there is uncertainty at this time about what these changes may be. Along with the Subbasin-wide coordination, we will also ensure that the RRBGSA GSP addresses the required GSP regulations on content and presentation. These include, but are not limited to, the following:

- comply with GSP regulations and Best Management Practices (BMPs), as applicable
- makes best use of existing, local data,
- establishes meaningful sustainability criteria for the GSA,
- coordinates with other Subbasin GSAs throughout the GSP process, and
- provides transparency through public outreach and communication with local stakeholders.

The GSP is considered the foundation of SGMA compliance and demonstrates sustainable management for the Subbasin. As with the previous GSPs, our overall approach is to construct a technically-credible GSP that is guided by the SGMA regulations, reliant on existing data and analyses to the extent practical, and based on locally-appropriate best management practices for groundwater management.

SUBBASIN-WIDE COORDINATION EXPERIENCE

As noted above, the RRBGSA noted that the primary takeaway from both DWR letters was the same message - inadequate Subbasin-wide coordination. We understand that the RRBGSA looks to be more fully engaged in Subbasin-wide coordination efforts to advance the effort to achieve approved GSPs through Subbasin wide coordination in the most efficient and timely manner possible.

Todd Groundwater has been active in multiple Subbasin-wide coordination activities the beginning of the SGMA process including GSP preparation, groundwater model development, Annual Report preparation and other groundwater related tasks. Through this experience, Todd Groundwater has an extensive background in understanding the local groundwater conditions and groundwater management practices in the Subbasin that will help support the RRBGSA with their stated goal of better and more consistent Subbasin-wide coordination. In brief, this experience includes:

- **Kern River GSA GSP** - Phyllis Stanin was Project Manager for preparation of the original GSP submitted in January 2020, Revised GSP that responded to DWR's Incomplete Determination submitted in July 2022, and the pending response to SWRCB on the Inadequate Determination.
- **North Central Kern GSA Group GSP** – The North Central Kern Group was also formed in March 2023 to include the North Kern WSD GSA, Shafter-Wasco ID GSA, Cawelo GSA and the Southern San Joaquin GSA. Mike Maley is Project Manager for the new GSP that will consolidate the previous plans into a single coordinated GSP that responds to DWR's Inadequate Determination submitted in March 2023.
- **Technical Working Group (TWG)** – Todd Groundwater is actively participating with the TWG to advise the Coordination Committee on methods for a coordinated Subbasin-wide response to the SWRCB on the March 2023 Inadequate Determination of the Revised GSPs.
- **C2VSimFG-Kern Model Development** – Todd Groundwater developed the current Subbasin groundwater model, C2VSimFG-Kern, for the 2020 GSPs by updating DWR's C2VSimFG model with local managed water supply and demand data to develop Subbasin-wide water budgets using a consistent methodology and evaluating the aggregated GSP Projects and Management Actions with a consistent basin-wide methodology .
- **Basin Study** – Todd Groundwater is the technical lead for a comprehensive study funded by a grant administered under the Sustainable Groundwater Management Grant program to address data gaps and improve the overall methodology for determining water budgets for the entire Subbasin. A revised Subbasin-focused groundwater-surface water model, IWFM-Kern, will be one of the key deliverables of the Basin Study.
- **Kern County Subbasin Annual Reports** – Todd Groundwater has prepared the four GSP Annual Reports submitted to DWR since 2020. The annual report includes compiling water budget data from water agencies and updating the C2VSimFG-Kern model for an updated water budget. In this manner, the Subbasin has produced coordinated water budgets across the entire Subbasin.

- **Other Local Projects** – Todd Groundwater has worked on multiple local hydrogeological, planning and modeling projects for several Subbasin agencies including Kern Fan Monitoring Committee, Kern Delta WD, North Kern WSD, Buena Vista WSD, and Wheeler Ridge-Maricopa WSD.

Todd Groundwater will provide Project Team members with Kern County Subbasin experience to support the preparation of the new RRBGSA GSP. The following provides our proposed scope of services, cost estimate and schedule for this work. A cost estimate is provided at the end of this text on **Table 1**.

PROPOSED SCOPE OF SERVICES

The following proposed scope of services includes activities associated with development of a GSP for the RRBGSA. We have divided the GSP preparation into three tasks consistent with the approach outlined above. The scope of work and project deliverables for each task are described below.

Task 1: Prepare Draft GSP

Todd Groundwater will prepare individual chapters or sections of the GSP and provide these separately to the RRBGSA members for review. We plan to collaborate with the RRBGSA and their technical staff to work through issues encountered during the consolidation process.

Integration Of The Subbasin-Wide Response To DWR Deficiencies

We anticipate that these efforts to address the deficiencies in the March 2023 Determination Letter will eventually coalesce around a single approach. We will incorporate this agreed-upon Subbasin-wide coordinated approach for addressing the March 2023 deficiencies in the RRBGSA GSP for submittal along with GSPs from the other Subbasin GSAs. Todd Groundwater is an active participant in these ongoing efforts, including TWG and its recommendations to the Coordination Committee. We will work with the RRBGSA members to evaluate how these approaches may affect the Revised RRBGSA GSP.

For the integration of the subbasin-wide response to DWR deficiencies, we will incorporate coordinated Subbasin-wide responses to the Inadequate Determination deficiencies into the RRBGSA GSP. The RRBGSA will coordinate with the multiple efforts currently underway to develop consistent responses to the Inadequate Determination deficiencies. We anticipate that these efforts will eventually coalesce around a single Subbasin-wide coordinated approach. We will work collaboratively with the RRBGSA to incorporate changes to the GSP resulting from this Subbasin-wide coordinated approach.

The deficiencies primarily center around the development of coordinated sustainable management criteria (SMCs) for the primary sustainability criteria – chronic lowering of groundwater levels, decline in groundwater in storage, land subsidence, water quality and groundwater dependent ecosystems. Therefore, the Task 3 GSP changes will primarily focus on the section(s) that directly address the following:

- Sustainability Goal
- Definition of Undesirable Results
- Development of Minimum Thresholds, Measurable Objectives and Interim Milestones

Todd Groundwater, along with Dan Bartel of RRBWSD, are active participants in the coordinated Subbasin-wide responses being developed by the TWG and will work with the RRBGSA members to understand how these approaches may affect the RRBGSA GSP and SGMA compliance.

Incorporate Subbasin-wide GSP Modifications

It is anticipated that the Subbasin Coordination Committee will recommend a process for presenting technical information in a more consistent manner throughout the GSP. These recommendations will address the presentation of data, analyses and other information in a consistent manner to standardize the presentation of data, methodologies and technical analyses for use in all of the Subbasin GSPs. The objective of these modifications is to provide cohesive GSPs that will facilitate SWRCB review and to allow comparisons of information across the multiple GSPs in the Subbasin.

A Subbasin-wide Basin Setting section is being developed to provide the hydrogeologic context for the sustainability analyses. This section will describe the hydrogeologic conceptual model including local geologic setting, groundwater conditions, water quality and water budgets consistent with the GSP regulations. This section will be incorporated into all of the Subbasin GSPs to provide more consistent content across all of the GSPs. Todd Groundwater will incorporate the text, cross-sections, and maps from this Subbasin-wide Basin Setting into the RRBGSA GSP.

There is uncertainty at this time about what these Subbasin coordination changes may be. By having already standardized the data, methodologies and technical analyses in the Draft GSP, we should be well situated to further standardize these based on Subbasin-wide coordination recommendations. We will coordinate closely with the RRBGSA GSA as these potential changes evolve to develop a plan and schedule for how to incorporate these changes.

Plan Organization

In the initial GSPs, DWR and SWRCB both noted that it was difficult to compare information which complicated the review process. In response, the Subbasin GSAs are looking to align the Subbasin GSPs so that they are organized in a consistent manner. These include:

- Using a consistent outline for all GSPs so that information presented in each GSP is found under the same section.
- Presenting data and analysis in a consistent manner so the overall data presentation in text, tables, and figures is presented consistently using similar formatting and use of terms.

We anticipate that the agreed-upon Subbasin-wide GSP modifications will include coordinated technical analyses and report formatting that will need to be incorporated into a Revised RRBGSA GSP. We anticipate that further recommendations will be developed to standardize the presentation of data, analyses and other information for the Subbasin GSPs. Work for this task is anticipated to consist of changes to present the RRBGSA GSP in a manner consistent with the other Subbasin GSPs. The objective is to provide a more cohesive framework for SWRCB staff to compare the approach and methodologies used in the multiple Subbasin GSPs to help achieve the Subbasin goal for GSP approval.

Draft GSP

Draft sections developed under the previous tasks will be updated to address comments from the RRBGSA. These comments will be addressed in a complete **Draft GSP** addressing all comments from the tasks will be prepared for RRBGSA staff to review and provide comments..

Task 1 Deliverable:

- *Electronic version (.pdf format) of Draft GSP per GSP Regulation § 355.2*

Task 2: Prepare Final GSP Document

For Task 2, we will prepare the Final GSP document for SWRCB and DWR submittal per GSP Regulations § 355.2. Following review of the Draft GSP by RRBGSA, we will address comments, questions and other concerns raised about the GSP. In addition, recommendations from the Subbasin-wide coordination process may be finalized during the final part of the GSP preparation process. These are anticipated to primarily address formatting of text and figures that can be addressed during this phase. A **Draft Final GSP** will be prepared to allow sharing with stakeholders and possibly other Subbasin GSAs for coordination compliance that will address comment from the Task 1 Draft GSP.

Agency and stakeholder comments from the **Final Draft GSP** will be incorporated following a public comment period. Specifically, this task involves assembling the document into a coordinated and unified report that clearly describes the data, methods, and analyses. The compiled, comprehensive document will be the draft GSP, which will be presented at one of the last technical workshops. Comments received at the workshop as well as written submitted comments by agencies and stakeholders will be incorporated into the **Final RRBGSA GSP**.

A proof-copy of the **Final RRBGSA GSP** will be provided for final review by GSA members and presented at a public hearing, coinciding with a Regular or Special Board Meeting. Any final comments, anticipated to be limited to minor editorial changes, will be made and a **Final RRBGSA GSP** will be issued to each of the RRBGSA members for distribution and submission to SWRCB and DWR.

Task 2 Deliverables:

- *Electronic version (.pdf format) of Draft Final GSP, per GSP Regulation § 355.2*
- *Electronic version (.pdf format) of Final GSP, per GSP Regulation § 355.2*

Task 3: Coordination with RRBGSA

Excellent project management is essential to providing high-quality services at the right time within budget. Todd Groundwater has effective project management methods for coordination of team efforts, quality control and adherence to the project scope, schedule, and budget. Task 3 includes coordination of staffing, schedule milestones, budget allocation, and reporting requirements that will occur throughout the GSP preparation process.

Todd Groundwater will track schedule and budget on a monthly basis and track document requirements for the GSP. Invoices will clearly show team members, hours, costs, and progress on Project tasks. A monthly progress report will be prepared for each invoice showing progress made during the month, next steps for the following billing cycle, and status of both schedule and budget.

The project team will schedule progress report conference calls to ensure coordination among tasks and sharing of information and data. Communication will primarily be done by teleconference and web meetings.

Work progress will be effectively tracked and obstacles will be identified at the earliest possible time. Team members will meet to coordinate work tasks with close collaboration and coordinated work sessions, as needed. This regular communication assists in maintaining adherence to the schedule requirements and allowing for “course correction,” if needed, in a timely manner.

GSA input, involvement, and coordination is required during the GSP preparation process. For costing purposes, we assume Todd Groundwater support for two project and public meetings. For the purposes of costing, we assume that the GSA will manage the website, maintain the lists, contact stakeholders by

email, provide the venue for meetings, and assist with scheduling. Todd Groundwater will assist the RRBGSA with adoption hearing pursuant to section 10728.4 of SGMA pertaining to adoption of a plan following a public hearing.

Task 3 Deliverables:

- *Presentation materials for Technical Workshops and Coordination Meetings*
- *Monthly progress reports including combined invoices and updates on budget and schedule*

COST ESTIMATE AND SCHEDULE

The proposed scope of services includes activities associated with preparation of a GSP for the RRBGSA. The cost estimate, schedule and project team for completing this scope of services are described below.

COST ESTIMATE

Based on the scope of work described herein, we have estimated costs for the GSP preparation as shown on the Table 1. The proposed cost estimate is a “not-to-exceed” amount of **\$164,100**. This cost estimate assumes that Todd Groundwater’s role is primarily document preparation, and that Todd Groundwater will coordinate with RRBGSA staff on technical information and planning priorities.

Our proposed level of effort is provided by task in **Table 2** (following the text). Hours are provided by staff classifications, illustrating the emphasis on senior professionals for critical work tasks and use of more cost-effective staff for technical support. We have also included hours for graphics and administrative support. Throughout the project, Todd Groundwater will look for opportunities for cost and time savings.

The Subbasin-wide coordination process introduces some uncertainty about the level of involvement; however, we consider that the scope and costs have been developed with a good understanding of the March 2023 Inadequate Determination Letter deficiencies and the overall Subbasin-wide coordination process.

TABLE 1 – Cost Estimate for RRBGSA GSP preparation

TASKS	Estimated Hours	Estimated Cost
Task 1: Prepare Draft GSP	496	\$99,000
Task 2: Prepare Final GSP Document	246	\$50,500
Task 3: Coordination with RRBGSA	56	\$14,600
TOTAL	798	\$164,100

SCHEDULE

The Todd Groundwater Team can initiate the project upon receiving the notice-to-proceed. However, we understand that the schedule for the completion of the RRBGSA GSP is dependent upon the Subbasin-wide coordination process to respond to the March 2023 Inadequate Determination Letter deficiencies.

The initial steps in Task 1 are independent of the Subbasin-wide coordination process, so these can begin immediately after receiving the notice-to-proceed. The schedule for the remaining tasks is more uncertain as they are dependent upon the Subbasin-wide Coordination process. We will work with the RRBGSA to assess the schedule for the subsequent tasks as the Subbasin-wide coordination process evolves.

Key Project Team Members

Todd Groundwater proposes a selected team, who bring groundwater basin management experience, SGMA expertise, requisite technical skills, and knowledge of the Kern County Groundwater Subbasin.

- Mike Maley, who is also leading the North Central Kern Group GSP and the development of the Subbasin-wide groundwater model, will be the Project Manager and Technical Lead. He is the primary RRBGSA point of contact and will be involved throughout the project.
- Phyllis Stanin, who is also leading GSP revisions for the Kern River GSA, will provide senior oversight based on her long work experience in Kern County Subbasin and also provide support in addressing the Inadequate Determination deficiencies.
- Maureen Reilly, Lindsay Hall and Walt McNab have leading technical roles for incorporating the RRBGSA technical analyses into the revised GSP.

Since the focus of the RRBGSA GSP preparation is coordination with the other Subbasin GSPs, our work preparing revised GSPs other GSA will benefit the RRBGSA through our understanding of the GSP coordination issues and our development of standard document preparation templates. Todd Groundwater technical staff will assist the Key Project Team members to support the GSP preparation and data analysis, as needed. Additional staff will provide support with graphics and administrative support. Brief biographies of the Key Project Team Members is provided below.



Mike Maley, PE, PG, CHG, CEG, Project Manager and Technical Lead

Mike will serve as Project Manager and Technical Leader. Mike is a licensed professional geologist and civil engineer with over 30 years of experience in groundwater projects. He is an experienced project manager who has successfully managed large, complex projects. He was the GSP project manager for the Cawelo GSA, and provided technical support for the Kern River GSA GSP and three other GSPs in southern California. As Project Manager, Mike will serve as the RRBGSA's primary point of contact and will be responsible for overseeing the execution of the work, schedule and budget.



Phyllis Stanin, PG, CEG, CHG, Principal in Charge

Phyllis will serve as Principal in Charge. She has been a professional geologist for more than 30 years, including 10 years in the oil industry. She brings expertise in hydrogeology and groundwater basin management. She has prepared numerous GSPs—including several in the San Joaquin Valley especially in Kern County —and currently is assisting several clients with SGMA compliance. She was the GSP project manager for the Kern River GSA, Turlock Subbasin GSAs, and Modesto GSA. She will provide overall senior technical oversight for the project with an emphasis on the integration of Subbasin-wide response to the into the GSP.



Maureen Reilly, PE, Senior Water Resources Engineer

Maureen has over 20 years of experience in groundwater, environmental, and information systems projects. She is experienced in analytical and semi-analytical groundwater modeling programs, numerical methods, water quality analysis, monitoring, data management, and reporting in the context of groundwater basin management, including compliance with the Sustainable Groundwater Management Act (SGMA). Maureen has participated with the development of multiple GSPs including the Kern River GSA. She is a skilled writer and technical analyst who will serve a leading role incorporating information from the existing RRBWSD MAP into the RRBGSA GSP.



Lindsay Hall, Associate Engineer

Lindsay has over 20 years of agricultural engineering experience who specializes in water budget investigations for agricultural water suppliers. She is highly experienced with a variety of root zone soil water balance models, particularly DWR’s Integrated Demand Calculator (IDC), a module of Integrated Water Flow Model (IWF), DWR’s platform for integrated hydrologic modeling. Lindsay is currently leading the agricultural water budget and IDC development for the Basin Study. Lindsay will provide technical support with consolidating local water budgets and integration of Subbasin-wide GSP technical analyses for the RRBGSA GSP.



Walt McNab, PhD, PG, CHG, Consulting Hydrogeologist

Walt is a computational geoscientist with over 30 years of experience as a consultant and researcher. His interests and experience span a wide range of issues in quantitative physical and chemical hydrogeology and soil science, particularly those entailing coupled processes. His project experiences have included basin-scale groundwater modeling, modeling of vadose zone processes, geochemical modeling. Walt is a highly-skilled at statistical analysis of complex data sets. Walt is currently providing advanced quantitative analyses for the Basin Study. Walt will support consolidating and applying technical analysis for the RRBGSA GSP.

Table 2: Cost Estimate - RRBGSA GSP Preparation

Todd Groundwater

Job Name: Rosedale-Rio Bravo WSD GSA Groundwater Sustainability Plan (GSP)
 Job Description: Prepare Revised GSP
 Client: Rosedale-Rio Bravo GSA
 Date: 8/3/2023
 Todd Job Number: Proposal

TASKS	Vice-Pres QA/QC	Principal PM	Senior Engineer	Consult Hydrogeo	Assoc Engineer	Staff Geo	Staff Hydro	GIS/ Graphics	Admin Staff	Total Labor Hours	Total Labor	Other Direct Costs	10% Expense Fee	Total Costs
2023 Hourly Rates	\$275	\$265	\$255	\$220	\$205	\$150	\$145	\$155	\$140					
Task 1: Prepare Draft GSP	16	80	80	40	40	80	80	80	0	496	\$ 99,000	\$ -	\$ -	\$ 99,000
Task 2: Prepare Final GSP Document	16	40	48	16	12	24	24	64	2	246	\$ 50,500	\$ -	\$ -	\$ 50,500
Task 3: Coordination with RRBGSA	4	40						8	4	56	\$ 13,500	\$ 1,000	\$ 100	\$ 14,600
Project Budget	36	160	128	56	52	104	104	152	6	798	\$ 163,000	\$ 1,000	\$ 100	\$ 164,100

South Valley Water Resources Authority (SVWRA)
Board Agenda

Kern Water Bank Conference Room
1620 Mill Rock Way, Suite 500
Bakersfield, CA, 93311

Dial-In (267) 807 9605; Participant Code: 510797#

July 27th, 2023, at 10:00 am

Call to Order

- 1. Public Input**—This portion of the meeting is set aside to provide the public an opportunity to bring to the attention of the Committee members any matter not on the agenda and over which the Committee has jurisdiction, provided no action shall be taken on any such matter unless otherwise provided.
- 2. Minutes**
Approval of minutes of 6/22/23
- 3. Directors Forum** – discussion only, no action
 - a. SGMA
 - b. SWP & KCWA
 - c. Kern River
 - d. Other
- 4. New Business for Consideration at Future Meetings and Announcements**
- 5. Adjournment**

**Project Management Committee (Special Activity Agreement #1)
of South Valley Water Resources Authority (SVWRA)**

**Fish Friendly Diversion Project
Agenda**

Kern Water Bank Conference Room
1620 Mill Rock Way, Suite 500
Bakersfield, CA, 93311

Dial-In (267) 807 9605; Participant Code: 510797#

July 27th, 2023, at 10:05 am

Call to Order

- 1. Public Input**—This portion of the meeting is set aside to provide the public an opportunity to bring to the attention of the Committee members any matter not on the agenda and over which the Committee has jurisdiction, provided no action shall be taken on any such matter unless otherwise provided.
- 2. Minutes**
Approval of minutes of 6/22/23
- 3. Financial Reports**
 - a. Presentation of financial reports.
 - b. Consideration of accounts payable.
- 4. Fish Friendly Diversion Project**
 - a. Project updates
- 5. CLOSED SESSION - CONFERENCE WITH REAL PROPERTY NEGOTIATOR**
(Gov't Code § 54956.8)
Property: FFD Pilot Project sites (lease or purchase) – Various
Authority Negotiator: Scott Hamilton and Director Gianquinto
Under Negotiation: Price and Terms
Negotiation With: Various Owners or Agents
- 6. Fish Friendly Diversion Project - Continued**
 - a. Consideration and possible action for a cash call for the budgeted 2023 dues at \$0.30/share.
- 7. Special Activity Agreement No. 4**
 - a. Consideration and possible action to approve form of special activity agreement subject to approval by participating members
 - b. Consideration and possible action for a cash call to fund the new special activity
- 8. Water Blueprint for the San Joaquin Valley**
 - a. Blueprint update report
- 9. Collaborative Action Plan for the San Joaquin Valley**
Update of recent meetings:

Meeting: **Joint Sites Reservoir Committee & Authority Board**

**July 21, 2023
9:00 AM – Noon**

Locations: [Click here to join the meeting](#)
122 Old Hwy 99W, Maxwell, CA 95955
See additional locations below.

Call in: **1-916-538-7066**
Code: **916 475 053#**

Authority Board Chair: Fritz Durst (Reclamation District 108)
Authority Board Vice Chair: Jeff Sutton (Tehama-Colusa Canal Authority)
Reservoir Committee Chair: Valerie Pryor (Zone 7 Water Agency)
Reservoir Committee Vice-Chair: Mike Azevedo (Colusa County)
Treasurer: Jamie Traynham (Davis Water District)

AGENDA

ROLL CALL & CALL TO ORDER:

- Introductions.
- Pledge of Allegiance.
- Approval of July 21, 2023, Joint Meeting Agenda.
- Announcement of Closed Session.
- Period for Public Comment.

Any person may speak about any subject of concern, provided it is within the Reservoir Committee's and Authority Board's jurisdiction, before speaking, you must submit a public comment card either electronically or on paper. The time allotted for receiving such public communication shall be 3 minutes per person. Note: No action shall be taken on comments made during this period.

1. Consent Agenda:

Approximate start time 9:10 am

The Executive Director reviewed the following items. To his knowledge, there is no opposition to the action. The items can be acted on in one consolidated motion as recommended or may be removed from the Consent Calendar and separately considered at the request of any person. Each item indicates the body authorized to approve such actions according to the JPA, Bylaws and Project Agreement.

- 1.1 Reservoir Committee and Authority Board consider approval of June 16, 2023, Joint Reservoir Committee and Authority Board Meeting Minutes. **(Attachments A & B)**
- 1.2 Reservoir Committee and Authority Board consider acceptance of the Sites Project Authority Treasurer's Report. **(Attachment A & B)**

1.3 Reservoir Committee and Authority Board consider approval of the Payment of Claims. **(Attachments A & B)**

1.4 Reservoir Committee and Authority Board to consider authorizing an FY2023 budget transfer of \$350,000 from Unrestricted Contingency to Legal Services to cover additional Legal Services expenses by Perkins Coie.

2. **Action Items:** Approximate start time 9:15 am

2.1 Reservoir Committee and Authority Board consider approval of the 2022 Financial Audit. **(Attachments A, B & C)**

2.2 Reservoir Committee and Authority Board consider authorizing the Executive Director to submit the request to receive the Governor’s certification as an SB149 eligible infrastructure project including agreeing to pay costs of 1) trial court and court of appeal and 2) preparing record of proceedings.

3. **Discussion and Information Items:** Approximate start time 10:15 am
No action from the Reservoir Committee or Authority Board.

3.1 Reservoir Committee and Authority Board review and comment on the optimized Initial Phase 3 /4 Project schedule. **(Attachment A)**

3.2 Review and comment on the Final Environmental Impact Report /Environmental Impact Statement, status briefing in preparation of the Project. **(Attachment A)**

3.3 Receive and comment on a status update on the Local Community Working Group. **(Attachments A & B)**

4. **Reports:** Approximate start time 10:50 am

4.1 **Chairpersons’ Reports:**

This time is set aside to allow the Reservoir Committee & Authority Board Chair/Co-Chair an opportunity to disclose/discuss items related to the Sites Project.

4.2 **Committee & Workgroup Chairpersons’ Reports:**

This time is set aside to allow the Committee & Workgroup Chairpersons an opportunity to disclose/discuss items related to the Sites Project. Agendas are located on the project website – [Committee and Workgroup Agendas](#).

4.3 **Authority Board & Reservoir Committee Participant Reports:**

This time is set aside to allow Representatives or their Alternates an opportunity to disclose/discuss items related to the Sites Project.

4.4 Executive Director’s Reports:

- Monthly status report. **(Attachment A)**
- Work Plan Key Deliverables Report. **(Attachment B)**
- Meetings Action Items Summary. **(Attachment C)**

5. Closed Session: Approximate start time 11:10 am

5.1 Negotiations concerning water right permit terms and conditions (Govt. Code §54956.9(c) and §54956.9(d)(4)).

6. Report from Closed Session Approximate start time 11:30 am

7. Recap: Approximate start time 11:35 am

7.1 Suggested Future Agenda Items.

7.2 Upcoming Meetings:

Joint Reservoir Committee & Authority Board
Friday, August 18, 2023 (9:00 am to noon)

Meetings are held in the Maxwell Project Office & Virtual.

Virtual Information will be provided on the meeting agenda at [Sitesproject.org](https://sitesproject.org).

ADJOURN

ADA COMPLIANCE: Upon request, agendas will be made available in alternative formats to accommodate persons with disabilities. In addition, any person with a disability who requires a modification or accommodation to participate or attend this meeting may request the necessary accommodation. Please make your request to the Board Clerk, specifying your disability, the format in which you would like to receive this Agenda and any other accommodation required no later than 24 hours before the start of the meeting.

This meeting will be recorded.

Alternate Meeting Locations:

City of American Canyon, 4381 Broadway Street, American Canyon, CA 94503

Desert Water Agency, 1200 S. Gene Autry Trail, Palm Springs, CA 92264

Irvine Ranch Water District, 15600 Sand Canyon Avenue, Irvine, CA 92618

Metropolitan Water District, 1121 L Street, Suite 900, Sacramento, CA 95814

Rosedale-Rio Bravo Water Storage District, 849 Allen Road, Bakersfield, CA 93314

Valley Water Agency, 5750 Almaden Expressway, San Jose, CA 95118

San Geronio Pass Water Agency, 1210 Beaumont Avenue, Beaumont, CA 92223

Santa Clarita Valley Water Agency, 26501 Summit Circle, Santa Clarita, CA 91350



COMMITMENT · EXPERIENCE · LEADERSHIP

ACWA BOARD MEMBER

- ACWA Vice President (2022-current)
- Executive Committee (2020-current)
- Region 10 Chair (2018-2019)
- Region 10 Vice Chair (2016-2017, 2020-2021)
- Region 10 Board Member (2012-2021)

ACWA COMMITTEES

- Water Quality Committee (2012-current)
- Energy Committee (2019-current)
- State Legislative Committee (2012-2015)

ORANGE COUNTY WATER DISTRICT

- President (2015-2016, 2022-current)
- 1st Vice President (2013, 2014, 2019-2022)
- Director (2010-current)
- Joint Planning Committee: Chair
- Labor Ad Hoc Committee: Chair
- Communications/Legislative Liaison Committee: Vice Chair

CIVIC AND PROFESSIONAL EXPERIENCE

- Santa Ana River Flood Protection Agency: Chair
- CalDesal: Director
- City of Huntington Beach Mayor (2003, 2009)
- Councilwoman (2002-2010)
- Registered Nurse
- Law degree

My vision for ACWA is to embrace its motto -- Bringing Water Together -- which, for me, is about unifying ACWA members and working collaboratively with diverse stakeholders to find smart solutions to the challenges we are now facing.



CATHY GREEN BIOGRAPHY

In December of 2021, Cathy Green was elected vice president of the Association of California Water Agencies (ACWA) for a two-year term. She has served as an active member of ACWA since 2012, including serving on ACWA's executive committee since 2020, the ACWA Board since 2016, and the Region 10 Board from 2012-2021. She held the position of ACWA Region 10 chair from 2018-2019 and served as vice chair from 2016-2017 and 2020-2021. Cathy Green has also served on several ACWA committees including the water quality committee since 2012, the energy committee since 2019, and the state legislative committee from 2012-2015.

Cathy Green was elected to the Orange County Water District (OCWD) Board of Directors in November 2010 and was re-elected in 2012, 2016 and 2020. She was selected by the Board to serve as its 2015, 2016 and 2023 president. She served as 1st vice president in 2013, 2014 and from 2020 to 2022.

Cathy Green currently serves as vice chair of National Water Research Institute, a 501c3 nonprofit that collaborates with water utilities, regulators, and researchers in innovative ways to help develop new, healthy, and sustainable sources of drinking water.

Prior to Cathy Green's service on OCWD's Board, she was elected to two consecutive terms on the Huntington Beach City Council where she served two terms as mayor. Cathy Green has been involved as a council liaison and committee member on many city boards, commissions and committees. She served on the Orange County Transportation Authority Board and was a director of OC Clean Tech.

Cathy Green serves on the boards of the Huntington Valley Boys and Girls Club and the Orange County Explorer Program; serves on the Huntington Beach City School District Medi-Cal Collaborative; is a director of the Prime Health Foundation and the Huntington Beach Hospital; is a member of the American Legion Unit 133 Auxiliary, Huntington Beach Community Emergency Response Team (CERT) and the Elks Lodge 1959; and is on the advisory board of the Bolsa Chica Conservancy. She is a founding member of Amigos de Bolsa Chica.

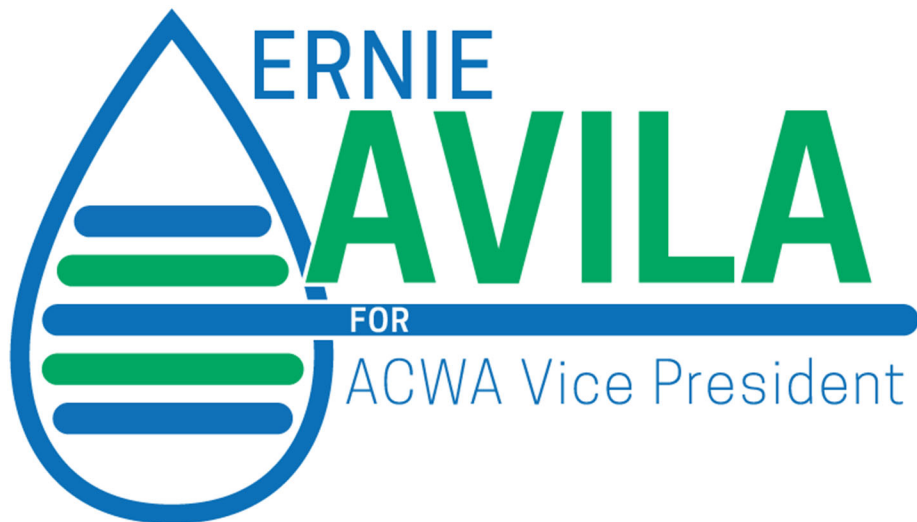
In addition, her community involvement has included serving as president of the Therapeutic Riding Center and the Huntington Beach Community Clinic, chair of the Orange County Emergency Medical Care Committee and of Explorer's/Learning for Life, first aid chair of Huntington Beach CERT, and board member of the OC Boy Scouts of America Council and American Family Housing.



Cathy Green is the recipient of many awards. Her most recent is a 2020 Boys and Girls Clubs of America National Service to Youth Award. In 2010, she was the recipient of the Spurgeon Award, and, in 2005, she was named Woman of the Year by then State Senator John Campbell. Other awards include the 2006 United Way Excellence in Child Care Planning, the 2007 Peace Maker Award from the Greater Huntington Beach Interfaith Council and the Golden West College Pillar of Achievement Award. She has also been recognized as Huntington Beach's Citizen of the Year by the Huntington Beach Chamber of Commerce, a Huntington Beach Soroptimist's Woman of Distinction and a Bolsa Chica Conservancy Conservator of the Year.

Cathy Green is a registered nurse and holds a degree in law. As a nurse, she worked in the health care areas of intensive care, student health, community health, and patient advocacy. In addition to nursing, she gained experience with a variety of environmental projects while associated with Lockhart and Associates.

Cathy Green has been a resident of Huntington Beach since 1970 where she raised her two children, Teresa and Tom, with her late husband Peter.



“The Association of California Water Agencies (ACWA) truly represents the nexus of knowledge and leadership in water for California. We are emerging from difficult times on many fronts, notably a multi-year drought and we need to lock into strategies to keep water in the public eye with ACWA and member agencies as the trusted sources of information. With over 40 years of experience in the water world, I am dedicated to continuing ACWA’s leading role on state-wide water issues, including the protection of water rights. United between all water users, we can inform the needed investments state-wide in storage, groundwater recharge, conveyance, desalination, recycling, reuse and conservation to strengthen our water systems for future generations.” – Ernesto (Ernie) Avila, P.E.

ACWA BOARD MEMBER

- Executive Committee of the ACWA Board of Directors
- ACWA Board of Directors
- ACWA Region 5 Board of Directors
- ACWA Foundation Steering Committee

ACWA COMMITTEES

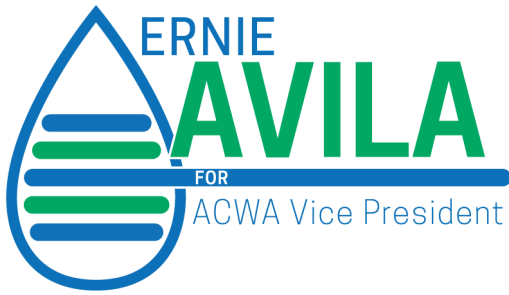
- Local Government Committee, Chair
 - Property Tax Working Group
 - Housing Densification Working Group
 - Paving Standards Working Group
- Federal Affairs Committee
- Foundation Fundraising Working Group

CONTRA COSTA WATER DISTRICT

- Contra Costa Water District, Board President
- Operations & Engineering, Committee Chair
- East Bay Leadership Council, Director
- Los Vaqueros Reservoir Joint Powers Authority, Director

PROFESSIONAL EXPERIENCE

- Vice-President, Avila and Associates Consulting Engineers, Inc.
- Monterey Peninsula Water Management District, General Manager
- Director of Engineering, Contra Costa Water District
- Northern California Salinity Coalition, Executive Director
- California Urban Water Agencies, Executive Director



Ernesto (Ernie) Avila, PE Board President Contra Costa Water District

Recent ACWA and Regional Water Coalition Experience

Association of CA Water Agencies (ACWA). I have had the pleasure of supporting ACWA over twenty years at the regional and state level. My recent ACWA experience has included serving on ACWA's:

- Executive Committee of the ACWA Board of Directors
- Board of Directors
- Region 5 Board
- Local Government Committee (Chair)
 - Property Tax Working Group
 - Housing Densification Working Group
 - Paving Standards Working Group
- Federal Affairs Committee
- Foundation Steering Committee
 - Foundation Fundraising Working Group



As part of these efforts, I led ACWA's assessment of potential water industry impacts associated with Sacramento-based housing initiatives including Auxiliary Dwelling Units, Commercial Properties and Transit Center Hubs and led a workshop to consider potential ACWA next steps associated with these new initiatives and their related changes to water agency fees and charges. I led the ACWA Region 5 session on *Safe Drinking Water Issues Affecting Disadvantaged Communities*, and helped with the development of the *ACWA New Water System Approval Fact Sheet*. I also participated in the ACWA Foundation Steering Committee including several related Ad Hoc committees and contributed to Federal Affairs Committee work groups associated with the Water Infrastructure Finance and Innovation Act (WIFIA) .

Multi-State Salinity Coalition (MSSC). For over 20 years, I have served as Program Director and Board member of MSSC which consists over 30+ water agencies from New Mexico, northern and southern California, Nevada, Colorado, Arizona and Texas. The MSSC mission is to promote advancements in technologies for desalination, reuse, salinity control strategies (watersheds and agriculture), water/energy efficiencies and related policies that will assist communities in meeting their water needs. I also helped to establish relationships regarding salinity management and desalination with water agencies in Australia, Mexico and Israel. In February 2023, the MSSC awarded me with the **MSSC "Salt of the Earth" National Award** for outstanding commitment, leadership, vision and dedication to our water industry.

Contra Costa Water District (CCWD). As President of CCWD, I helped to form the coalition of eight northern California water agencies that make up the Los Vaqueros Reservoir Joint Powers Authority (LVJPA). Once completed, the expanded reservoir will improve the Bay Area's regional water supply reliability and water quality while protecting Delta fisheries and providing additional Delta ecosystem benefits. I currently serve as the CCWD Director to the LVJPA.

California Urban Water Agencies (CUWA). As Executive Director, I led CUWA's effort in the development of Department of Water Resources (DWR) Methodologies for Calculating Baseline and Compliance Urban Per Capita Water Use as part of the Water Conservation Act of 2009 (Senate Bill X7-7) with our southern and northern California water agency members. I also made certain that CUWA's finances and practices were sound and transparent.

Northern California Salinity Coalition. As Executive Director, I led a coalition of ten San Francisco Bay Area water agencies in crafting grant application strategies and DWR outreach that would demonstrate the value of supporting watershed management, brackish desalination and groundwater project associated with salinity management. Working with the Coalition agencies, we secured the largest Proposition 50 grant funding for our region.

Professional Work Experience (40 years)

- Vice-President, Avila and Associates Consulting Engineers, Inc.
- General Manager, Monterey Peninsula Water Management District
- Director of Engineering, Contra Costa Water District
- Associate Engineer, East Bay Municipal Water District
- Construction Manager, CH2M Hill
- Professional Civil Engineer (California – C41727)

Community Service Experience

- Contra Costa Water District, President of the Board
- John Muir Community Health Fund Board of Directors (Treasurer)
- Association of California Engineering Companies – Chair of the Healthcare Trust (non-profit)
- Knights of Columbus, Scholarship Chair
- St. Francis of Assisi School Board, President
- City of Concord, CA – Planning Commission, Chair
- City of Concord, CA – Design Review Board
- City of Walnut Creek, CA – Transportation Commission, Vice-Chair

Education and Related Credentials

- B.S. – Civil Engineering, Santa Clara University
- M.B.A. – St. Mary's College of California
- Professional Civil Engineer (California – C41727)
- California Farm Bureau Member



Michael Saunders, MD
Georgetown Divide Utility District, Director
Candidate ACWA Vice-President
Outline and Statement of Qualifications

Appointed Offices:

Georgetown Divide Public Utility District - Finance Committee (2018)

Elected Offices:

Georgetown Divide Public Utility District - 5 years (2018-2022), (2022-2026)

Served as Treasurer, Vice-President, President

Currently Legislative Liaison

El Dorado County LAFCO - Alternate Special District Commissioner (2019 to present)

Budget Workgroup, Small to Medium Water District MSR workgroup, Recruitment Committee, Grand Jury committee

Regional Offices

Mountain Counties Water Resources Association - WUE workgroup

Regional Water Authority (RWA) - Board Member, Executive Board Member

Regional Activities:

Consumnes, American, Bear, Yuba (CABY) Integrated Regional Water Management Group

Participated in helping to define the vulnerability, economic, and support levels for the communities within El Dorado County.

State Level Workgroups

Department of Water Resources

DWR Workgroup Member for Water Use Efficiency Workgroups

- Water Loss Workgroup
- Annual Water Supply and Demand Assessment Workgroup

DWR Stakeholder participant

- County Drought Advisory Group
- Water Use Studies (LAM, Variances; Indoor, Outdoor, CII budgets)

Association of California Water Agencies (ACWA)

Workgroups:

- Diversity, Equity, and Inclusion Workgroup
- Headwaters Workgroup
- Water Use Efficiency Workgroup
- State Infrastructure Workgroup

Committees:

- Membership Committee

ACWA Region 3

- ACWA Region 3 Board Member (2022 - present)
- ACWA Region 3 Regional Issue Forum Planning workgroup
 - *"Protecting Communities in the New Era of Wildfire: The Important Role of Water Purveyors"*

My background includes a Bachelor of Science (BS) in Nutritional Biochemistry from Cornell University and a Doctor of Medicine (MD) from Howard University. My journey in water issues began with an empty horse water trough one hot summer day when there was no water. I began as a community volunteer on the Finance Committee where I began to learn about the finances of my water District. I was elected to the Georgetown Divide Public Utility District (GDPUD) Board in 2018. I am now in my 5th year as a Board member in my second term of office. I have served as the Treasurer, Vice-President, and President of the Board. I currently serve as the Board's Legislative Liaison.

I learned about water systems, delivery, infrastructure and our issues starting at the local level as a Board member, becoming more expansive through working with our Urban Water Management Plan and managing the District's water supply through drought mandates, water contingency plans, and wildfires. My understanding of the County water issues began as I actively participated in the Consumnes, American, Bear, Yuba (CABY) Integrated Regional Water Management Group including helping to define all of the vulnerability, economic, and support levels for the communities within El Dorado County. At the County level, I am the Alternate Special District Commissioner for LAFCO. I was part of the LAFCO workgroup for Small to Medium Water Districts Municipal Service Reviews and I have reviewed all the MSRs for the County learning of all of our County water districts infrastructures, finances, and challenges. As an Executive board member of the Regional Water Authority, I have had the opportunity to learn more on groundwater basins, and working on trying to get a Federally recognized water bank and working on conjunctive use efforts between surface water storage and groundwater storage.

At the State Level, I have worked on the Water Use Efficiency and County Drought Advisory Groups with the Department of Water Resources (DWR) beginning in 2019. This experience allowed me to understand about the challenges and issues throughout the State. This also gave me the opportunity to provide recommendations and solutions specific to rural, mountain counties that were not being addressed and began my active role in advocating for rural, mountain water agencies.

I have been an active participant with ACWA, attending conferences, workgroups, webinars, regional tours, board meetings, symposiums. I have been an advocate for issues attending State and Federal symposiums and legislative days, working and advocating through County, Regional, State and National committees, workgroups, task forces, legislative meetings, testimonies, letters, coalition letters, and hearings. The work with the DEI workgroup helped form ACWA's new foundation.

The ACWA Regional Board has allowed me to play a leadership role in our Region. Working closely with our regional board members and member agencies, we gathered information on issues in which we were able to work with ACWA staff to facilitate a meeting with State Water Resource Control Board members. I continue to outreach and work with our members and agencies to highlight the issues and challenges that our region faces and bring them to the various committees and workgroups.