REGULAR BOARD OF DIRECTORS MEETING

501 Taft Highway
Bakersfield, California

TUESDAY, November 17, 2026

AGENDA

CALL TO ORDER AND ANNOUNCEMENT OF QUORUM **12:00PM**

CLOSED SESSION:

A. Conference with Legal Counsel – Existing Litigation – Closed Session Pursuant to Gov. Code § 54956.9(d)(1):

1. SWRCB Kern River.
2. Rosedale Rio Bravo Water Storage District, et al. v. Kern County Water Agency, et al. (CVC).
3. Bring Back the Kern, et al. v. City of Bakersfield, et al.
4. Sierra Club v. California Department of Water Resources (Delta Conveyance Project Validation).
5. Dennis and Cherri Armer v. Kern Delta Water District et al.

B. Conference with Legal Counsel – Potential Litigation – Closed Session Pursuant to Gov. Code § 54956.9(d)(2),(e)(1):

1. Three Matters.

REGULAR SESSION: 1:00PM

INTRODUCTION OF GUESTS AND PUBLIC

I. **PUBLIC COMMENT** (Members of the public may address the Board of Directors on any matter not on the agenda, but absent extraordinary circumstances, the Board may not act on such matters. Members of the public may address items of interest that are listed on the agenda prior to the Board's decision on such items.)

II. **CONSENT CALENDAR** (The Board will consider various non-controversial routine items and issues relating to matters which are of interest to the District. Any Board Member may request that any or all items be considered and acted upon independently of the others.)

A. Approval of Minutes from the Regular Board Meeting of October 20, 2026.

B. Approval of October/November District Construction and Water Banking Project(s) Disbursements.

C. Approval of October/November District Disbursements.

D. Approval of District 2027 Meeting Calendar.

III. **BUSINESS AND FINANCE** (The Board will consider various items and issues relating to financial matters which are of interest to the District.)

A. Public Hearing:

i. Consideration of Resolution 2026-05 Levying Special Assessments Within Zones of Benefit.

B. Business & Finance Committee Report – November 10, 2026 (Special Meeting).
   i. Approval of October Financial Reports.

IV. OPERATIONS AND PROJECTS (The Board will consider various items and issues relating to matters which have been, or will be, considered by committees of the Board and which are of interest to the District.)

A. Operations and Projects Committee Report – November 3, 2026 (Canceled).
   i. District Encroachment Permit Report.
   ii. District Facility and Banking Maintenance Report.
   iii. Pending Development Projects.
   iv. District Projects Update.

V. WATER RESOURCES REPORT (The Board will consider various items and issues relating to the Kern River of interest to the District.)

A. District Watermaster Report.
   i. State Water Project – 2026 SWP Allocation: 45%.
   ii. Kern River Runoff Forecast April – July: 54% (May 26th B-120 Update).
   iii. Water Management Update.

B. Kern River Watermaster Report.

C. District Groundwater Manager Report.

VI. MANAGER'S REPORT (The General Manager will discuss, and the Board will consider various items and issues relating to the ongoing and future operations of the District which are of interest to the Board)

A. General Manager's Report.
   i. Golden Mussel Response Update – www.goldenrulekerncounty.com
   ii. SGMA Update (Subbasin Coordination, KRGSA, KNDLA).

B. External Agency Report.

C. Water Banking Projects Report.

VII. ATTORNEY'S REPORT (Legal Counsel will discuss, and the Board will consider items and issues of legal interest to the District.)

VIII. BOARD MEMBER COMMENTS (This item provides Board Members with an opportunity to make announcements or provide general comments.)

IX. ADJOURN

Requests for disability-related modifications or accommodations, including auxiliary aids or services may be made by telephoning or contacting Madelyne Rodriguez at the District Office (661-834-4656). Please attempt to make such requests known at least 24 hours before the scheduled meeting. Pursuant to Government Code section 54957.5, any materials relating to an open session item on this agenda, distributed to the Board of Directors after the distribution of the agenda packet, will be made available for public inspection at the time of distribution at the District, 501 Taft Highway, Bakersfield, CA.

Tab II

KERN DELTA
WATER DISTRICT

To: Kern Delta Water District Board of Directors

From: Steven Teglia – General Manager

Date: November 17, 2026

Re: Agenda Item II – Consent Calendar

RECOMMENDATION:

Approve items A through D listed under Agenda Item II – Consent Calendar.

DISCUSSION:

Consent Calendar items are non-controversial routine matters. Board Members may request that any or all items listed under the Consent Calendar be moved to the regular agenda to be discussed and voted on separately. Otherwise, all items will be approved through one motion and vote.

II A. Approval of Minutes from the Regular Board Meeting of October 20, 2026 (attached).

II B. Approval of October/November District Construction and Water Banking Project(s) Disbursements totaling $5,309.81* (attached), recommended for approval by the Business and Finance Committee *(see November 10, 2026 Business and Finance Committee minutes for additional detail).*

II C. Approval of October/November District Disbursements (attached), recommended for approval by the Business and Finance Committee *(see November 10, 2026 Business and Finance Committee minutes for additional detail).*

II D. Approval of 2027 District Meeting Calendar (attached).

**The November 3, 2026 meeting of the Operations and Projects Committee was canceled. Therefore the District Construction and Water Banking disbursements were recommended for approval by the Business and Finance Committee during their meeting of November 10, 2026.*

MINUTES OF THE REGULAR MEETING OF THE BOARD OF DIRECTORS

October 20, 2026

Tuesday, October 20, 2026, 12:01PM– 2:24PM

DIRECTORS PRESENT: Palla, Mendonca, Tillema, Spitzer, Kaiser, Borba and Garone.

DIRECTORS ABSENT: Antongiovanni, and Fanucchi.

STAFF PRESENT: General Manager Teglia, Assistant General Manager Bellue, General Counsel Iger, Controller Rivera, Groundwater Manager Marquez, and Hydrographer Hyatt.

OTHERS PRESENT: Noel Howard – Water One AI.

CLOSED SESSION DECLARED AT 12:01PM

President Palla called to order the Closed Session of the Kern Delta Board of Directors at 12:01PM regarding the following agenda items:

A. Conference with Legal Counsel – Existing Litigation – Closed Session Pursuant to Gov. Code § 54956.9(d)(1):

1. SWRCB Kern River.
2. Rosedale Rio Bravo Water Storage District, et al. v. Kern County Water Agency, et al. (CVC).
3. Bring Back the Kern, et al. v. City of Bakersfield, et al.
4. Sierra Club v. California Department of Water Resources (Delta Conveyance Project Validation).
5. Dennis and Cherri Armer v. Kern Delta Water District et al.

B. Conference with Real Property Negotiator Pursuant to Gov. Code Section 54956.8:

1. APN 188-270-16
   a. District Negotiator: Steven Teglia.
   b. Negotiating Party: Killdeer Farms LLC.
   c. Under Negotiations: Price and Terms of Purchase.

Closed Session concluded at 1:01PM.

REGULAR SESSION DECLARED AT 1:05PM

President Palla called to order the Regular Session of the Kern Delta Board of Directors at 1:05PM.

Closed Session Report: District General Counsel Iger reported the following:

Item A: No reportable action.

Item B: No reportable action.

INTRODUCTION OF GUESTS AND PUBLIC

Those identified as others present were introduced.

I. PUBLIC COMMENT

None.

II. CONSENT CALENDAR

M/S/C (Garone/Spitzer) (yes-7, no-0): By unanimous vote, with Directors Antongiovanni and Fanucchi absent, the Board approved and authorized items II A through II C of the Consent Calendar.

A. Approval of Minutes from the Regular Board Meeting of September 15, 2026.
B. Approval of September/October District Construction and Water Banking Project(s) Disbursements.
C. Approval of September/October District Disbursements.

III. BUSINESS AND FINANCE

A. Business & Finance Committee Report – October 15, 2026: District Controller Rivera provided a report from the October Business & Finance Committee Meeting.

A(i). Approval of September Financial Reports: Mr. Rivera presented the September District and Water Banking Project(s) Financial Statements, Treasurer's Reports, and District Delinquency Report.

M/S/C (Kaiser/Tillema) (yes-7, no-0): By unanimous vote, with Directors Antongiovanni and Fanucchi absent, the Board approved the September District and Water Banking Project(s) Financial Statements, Treasurer's Reports, and Delinquency Report as presented.

A(ii). Quarterly Investment Review: Mr. Rivera provided a brief overview of the quarterly investment review report, which was included in the Board agenda package. This item was informational, and no action was recommended or taken.

IV. OPERATIONS AND PROJECTS

A. - A(i-iv). Operations and Projects Committee Report – October 6, 2026: Assistant General Manager Bellue reported on several items, including District maintenance activities, recent encroachment permit requests, pending development projects impacting District facilities, and an update regarding District initiated projects.

B. Approval of Master Services Agreement with Lonnie A. Cross Land Leveling Inc. for Earthwork: Staff presented the above referenced Master Services Agreement consistent with the District's Purchasing Policy. This agreement will allow the approval of future task orders to accomplish miscellaneous projects involving earthwork including, but not limited to, canal dredging, canal reconstruction, and recharge facility levee maintenance.

B(i). Approval of Task Order #1 for Reconstruction of Approximately ½ Mile of the Rim Ditch (East Bank) South of the Drain Canal, in an Amount Not to Exceed $410,880: This Task Order #1 under the Master

Services Agreement with Lonnie A. Cross Land Leveling Inc. will provide for the above-entitled project. Following a brief discussion both items B and B(i) were approved with one motion.

M/S/C (Mendonca/Spitzer) (yes-7, no-0): By unanimous vote, with Directors Antongiovanni and Fanucchi absent, the Board approved the Master Services Agreement with Lonnie A. Cross Land Leveling Inc. for Earthwork and Task Order #1 for reconstruction of approximately ½ mile of the Rim Ditch (east bank) south of the Drain Canal, in an amount not to exceed $410,880, as presented.

C. Approval of Proposal from S.A. Camp Pump and Drilling Company for the Abandonment of the BR1 Well, in an Amount Not to Exceed $12,935 (Recommended for Approval by the Operations and Projects Committee): Staff provided a brief overview of the project including comparison of two proposals which were obtained for the above referenced work. Following a brief discussion, the Board took action to approve the proposal from S.A Camp.

M/S/C (Borba/Garone) (yes-7, no-0): By unanimous vote, with Directors Antongiovanni and Fanucchi absent, the Board approved the proposal from S.A Camp Pump and Drilling Company for the abandonment of the BR1 well, in an amount not to exceed $12,935, as presented.

V. WATER RESOURCES REPORT

A. - A(i-iii). District Watermaster Report: Staff reviewed and discussed the water supplies of the District for the months of September and early October. Approximately 9,291 acre-feet of water was diverted in District during the month of September. Staff also provided information related to current precipitation totals and future forecasts. It was noted that the current 2026 SWP allocation remained at 45% and the most recent B-120 April through July Kern River runoff forecast for 2026 was 54%. Staff provided a brief update regarding current water management activities.

B. Kern River Watermaster Report: The October Kern River Watermaster Report was included in the Board packet.

C. District Groundwater Manager Report: Groundwater Manager Marquez provided verbal comments supplementing graphical information regarding depth to groundwater at various monitoring locations throughout the District.

VI. MANAGER'S REPORT

A. General Manager's Report: Mr. Teglia provided an update on several items identified below:

A(i). Local Golden Mussel Response Update: Mr. Teglia provided an update regarding ongoing local efforts to prevent/mitigate golden mussel infestation in local water infrastructure. Mr. Teglia specifically highlighted District sponsored efforts to promote public awareness of the issue and proactive steps the community can take to prevent transportation of golden mussel tainted water. Mr. Teglia also provided an update regarding participation in the KCWA Golden Mussel Task Force.

A(ii). SGMA Update: Mr. Teglia provided an update on local SGMA activities, including subbasin coordination activities as well as reports from the KRGSA and KNDLA.

A(iii). Approval of Master Services Agreement with Todd Groundwater for Groundwater Services: Mr. Teglia stated that from time to time the District requires technical assistance related to groundwater management and SGMA implementation. Todd Groundwater has been a long-standing partner of the District and has detailed knowledge of District operations and hydrogeology. This knowledge along with Todd Groundwater's expertise will be of great value to the District now and in the future. This Master Services

Agreement will allow for the approval of future Task Orders which will provide the District with technical assistance as needed.

M/S/C (Spitzer/Garone) (yes-7, no-0): By unanimous vote, with Directors Antongiovanni and Fanucchi absent, the Board approved the Master Services Agreement with Todd Groundwater, as presented.

B. External Agency Report: Mr. Teglia provided verbal comments supplementing a memorandum included in the Board package which provided information on the meetings and activities of various external agencies. These agencies include, but are not limited to, the Kern County Water Agency, Kern Fan Authority, Kern River Watershed Coalition Authority, Kern Water Collaborative, Kern Non-Districted Land Authority, Kern River Groundwater Sustainability Agency, the South Valley Water Resources Authority, the Water Association of Kern County, and the Integrated Regional Water Management Plan. Mr. Teglia specifically referenced the upcoming WAKC Annual Dinner (November 4, 2026) and also provided an update regarding the SVWRA pilot project and the completion of the Nord Siphon project.

C. Water Banking Projects Report: Mr. Teglia provided verbal comments supplementing a memorandum included in the Board package which provided information on water banking project activity on the Kern Fan as well as District water banking project activities.

VII. ATTORNEY'S REPORT

A. VAWC Legislative Update: General Counsel Iger highlighted two veto letters related to AB 1894 and SB 872 as well as the VAWC Sacramento Report, all of which were included in the Board packet for reference.

VIII. BOARD MEMBER COMMENTS

IX. ADJOURNMENT

There being no further business, President Palla adjourned the meeting at approximately 2:24PM.

Respectfully Submitted,



Steven Teglia, General Manager

Approved by Board,



Richard Tillema, Board Secretary

KERN DELTA WATER BANKING PROGRAM DISBURSEMENTS
RECOMMENDED BY THE OPERATIONS & PROJECTS COMMITTEE
Tuesday, November 3, 2026

The November 3rd, 2026, Operations & Projects Committee meeting was canceled. The below will be reviewed at the November 10th, 2026 Business and Finance Committee meeting.

#	PAYEE		AMOUNT	CHECK
1	PGE - KB3	Well Utilities	41.57	EFT
2	PGE - AE1	Well Utilities	122.36	EFT
3	PGE - FR1	Well Utilities	19.68	EFT
4	PGE - BV4	Well Utilities	812.81	EFT
5	PGE - FR2	Well Utilities	44.23	EFT
6	PGE - BV2	Well Utilities	5.39	EFT
7	PGE - KB4	Well Utilities	41.57	EFT
8	PGE - BV3	Well Utilities	5.39	EFT
9	PGE - BV5	Well Utilities	5.39	EFT
10	PGE - KB6	Well Utilities	41.57	EFT
11	PGE - AE3	Well Utilities	8.35	EFT
12	PGE - AE4	Well Utilities	87.19	EFT
13	PGE - KD2	Well Utilities	85.52	EFT
14	PGE - AE2	Well Utilities	5.45	EFT
15	PGE - KI8	Well Utilities	5.45	EFT
16	PGE - FR3	Well Utilities	5.44	EFT
17	PGE - KD1	Well Utilities	2.55	EFT
18	HUGHES SURVEYING, INC.	Surveying - Stenderup Ponds	2,591.60	4144
19	KERN MACHINERY	Skid Plates - #T15	275.78	4145
		TOTAL	**4,207.29**	

SUNSET WATER BANKING PROGRAM DISBURSEMENTS
RECOMMENDED BY THE OPERATIONS & PROJECTS COMMITTEE
Tuesday, November 3, 2026

The November 3rd, 2026, Operations & Projects Committee meeting was canceled. The below will be reviewed at the November 10th, 2026 Business and Finance Committee meeting.

#	PAYEE			AMOUNT	CHECK
1	AMAROK	Security Fence		1,102.52	EFT
			TOTAL	**1,102.52**	

KERN DELTA WATER DISTRICT
DISBURSEMENTS RECOMMENDED BY THE BUSINESS AND FINANCE COMMITTEE
Tuesday, November 10, 2026

OCTOBER 2026 SUB TOTAL $ 386,789.38

#	PAYEE	AMOUNT	CHECK
1	CITIZENS CARDMEMBER SERVICES	7,250.86	EFT
2	UNITED AG BENEFIT TRUST - 11/2026 Medical Premium	39,305.15	EFT
3	PRINCIPAL LIFE INSURANCE - 11/01/26-11/30/26	5,930.19	EFT
4	PACIFIC GAS & ELECTRIC - 09/09/26-10/07/26 Office	2,552.89	EFT
5	CINTAS - Uniforms, Towels, Mats	2,311.92	EFT
6	PROGRESSIVE TECHNOLOGY, INC. - Phone Service	469.50	EFT
7	HOME DEPOT CREDIT SERVICES - Chains, Inflator	387.54	EFT
8	STERLING ADMINISTRATION - HRA Admin	125.00	EFT
9	PACIFIC GAS & ELECTRIC - 09/10/26-10/08/26 Shop	15.11	EFT
10	A1 BATTERY - Battery	281.66	49037
11	AFFINITY TRUCK CENTER - Filters	243.61	49038
12	AMAZON CAPITAL SERVICES - Toilet Paper, Copy Paper, Batteries	182.57	49039
13	AMERICAN BUSINESS MACHINES - Service Contract	885.38	49040
14	AMERICAN HYDROTECH - Lawn Maintenance	325.00	49041
15	B&B SURPLUS, INC. - Metal	9,708.65	49042
16	BLACK/HALL CONSTRUCTION, INC. - Shop Enclosure App. 2	89,846.46	49043
17	BSK ASSOCIATES - Samples - KFMC	871.36	49044
18	CHRISTENSEN, INC. - Fuel	13,253.79	49045
19	COMPUTERSHARE - Interest Expense	318,800.00	49046
20	CUMMINS WEST, INC. - Tensioner	244.75	49047
21	DANIELS TIRE SERVICE - Tires	1,336.13	49048
22	GRAINGER - Pumps Trav. Screen	4,287.74	49049
23	HERCULES INDUSTRIES, INC. - Locks	4,351.02	49050
24	JIM BURKE FORD - Tail Light	434.52	49051
25	KCTTC - Property Tax	6,932.36	49052
26	KERN COUNTY PUBLIC WORKS - Dump Fees	2,032.65	49053
27	KERN COUNTY RECORDER - Redemptions 10/23/2023	220.00	49054
28	KERN MACHINERY - Parts	90.37	49055
29	L. MARK MULKAY - Professional Services	1,595.93	49056
30	LAND IQ - 10/2026 Daily ET Analysis	4,422.63	49057
31	MARCOM GROUP - Website Hosting	95.00	49058
32	NKWSD - Weather Mod, 2026 3Rd Qtr W/M Charges, Golden Mussels	15,935.81	49059
33	O'REILLY AUTO PARTS - Upper Ball Joints	313.02	49060
34	ORKIN - Mosquito Service	99.00	49061
35	QUINN - Coolant, Engine Belt, Filters	726.07	49062
36	SULLY AND SON - Hose	101.67	49063
37	TARGET SPECIALTY PRODUCTS - Sonar	128,314.75	49064
38	WESTAIR GASES & EQUIPMENT, INC. - Gases	1,338.16	49065
39	WESTCOAST HYDRAULICS, INC. - 2- Hyd Rams	693.82	49066
40	Payroll #21	88,910.08	EFT
41	EFT-IRS P/R #21	26,591.62	EFT
42	Edd-State P/R #21	6,419.66	EFT
43	CASDU	674.76	EFT
44	Payroll People #21	215.77	EFT
45	Lincoln Life - Retirement Program	14,058.26	EFT

46	Lincoln Life - Deferred Comp.	2,121.00	EFT
47	Empower - Deferred Comp.	125.00	EFT
	OCTOBER 2026 TOTAL	**1,192,217.57**	

#	PAYEE	AMOUNT	CHECK
1	CENTRALIZE HR, LLC. - HR Support	1,895.00	EFT
2	ZENITH INSURANCE COMPANY - Installment 7	7,385.00	EFT
3	VERIZON - Cell Service	606.40	EFT
4	CAREFREE TECHNOLOGY MANAGEMENT, LLC. - IT Support	5,765.75	EFT
5	VERIZON CONNECT - GPS Service	578.30	EFT
6	PACIFIC GAS & ELECTRIC - 09/24/26-10/22/26 Lights	13.99	EFT
7	SPECTRUM - Internet Service	411.59	EFT
8	EMPLOYMENT DEV. DEPT. - Unemployment	3,834.00	EFT
9	KERN COUNTY RECORDER - Redemptions 11/03/2026	220.00	49067
10	PAYROLL CHECK	1,423.30	49068
11	ACWA/JOINT POWERS AUTHORITY - 2026-2027 Auto/Gen. Liability	217,981.14	49069
12	AMERICAN HYDROTECH - Lawn Maintenance	325.00	49070
13	CHRISTENSEN, INC. - Fuel	10,300.38	49071
14	CITY OF BAKERSFIELD - 2026 3rd Qtr Clearing	176,891.49	49072
15	GREENFIELD COUNTY WATER DIST. - Office Utilities	390.06	49073
16	HUGHES SURVEYING, INC. - Surveying - Central Branch	5,915.00	49074
17	KCWA - KFMC Share 01/2025-12/2026	11,445.24	49075
18	LAND IQ - 11/2026 Et Analysis, 11/2026 Daily Et Analysis	12,392.85	49076
19	OPEN & SHUT ENTERPRISES - Gate Repair	170.00	49077
20	PRICE DISPOSAL - Waste Removal	86.11	49078
21	SSD ALARM - 2026 4th Qtr Access Control	667.33	49079
22	STERICYCLE, INC. - Shred Service	130.77	49080
23	SWEEPING CORP OF AMERICA - Parkinglot Maintenance	570.00	49081
24	VANGUARD - Window Cleaning, Cleaning Service	1,540.00	49082
25	WANGER JONES HELSLEY PC - Professional Services	49,749.29	49083
26	CHAD GARONE - Member Fees 05/2026-10/2026	800.00	49084
27	GEORGE BORBA - Member Fees 05/2026-10/2026	900.00	49085
28	JOEY MENDONCA - Member Fees 05/2026-10/2026	1,200.00	49086
29	JOHN KAISER - Member Fees 05/2026-10/2026	1,200.00	49087
30	KEVIN ANTONGIOVANNI - Member Fees 05/2026-10/2026	1,800.00	49088
31	RICHARD TILLEMA - Member Fees 05/2026-10/2026	1,100.00	49089
32	ROBERT FANUCCHI - Member Fees 05/2026-10/2026	900.00	49090
33	RODNEY PALLA - Member Fees 05/2026-10/2026	1,600.00	49091
34	ROSS E. SPITZER - Member Fees 05/2026-10/2026	600.00	49092
35	Payroll #22	88,933.27	EFT
36	EFT-IRS P/R #22	26,084.40	EFT
37	Edd-State P/R #22	6,237.77	EFT
38	CASDU	674.76	EFT
39	Payroll People #22	214.60	EFT
40	Lincoln Life - Retirement Program	13,753.93	EFT
41	Lincoln Life - Deferred Comp.	2,296.00	EFT
42	Empower - Deferred Comp.	125.00	EFT
	NOVEMBER 2026 SUBTOTAL	**659,107.72**	

KERN DELTA WATER DISTRICT
Anticipated Disbursements - Month End - Nov 2026

Payee	Reason	November 2026 Estimated
A-1 BATTERY	truck maintenance/repair	250.00
AFFINITY TRUCK CENTER	parts/filters	250.00
AMAZON CAPITAL SERVICES	office supplies	850.00
AMERICAN HYDROTECH	lawn service	325.00
B & B SURPLUS	canal maintenance materials	1,000.00
BROWNSTEIN HYATT FARBER et al	professional services	38,000.00
BSE RENTS	equipment rental	300.00
CHRISTENSEN/(Amerifuel)	gas/diesel fuel	13,500.00
CINTAS	uniform/laundry service	2,200.00
CITIZENS CARDMEMBER SERV	misc expenses	4,000.00
CITY OF BAKERSFIELD	clearing account, Isabella accounting	35,000.00
DANIELS TIRE SERVICE	vehicle tires/repair	800.00
EMPOWER	deferred comp contributions	125.00
GRAINGER	safety materials	500.00
JIM BURKE	truck maintenance/repair	1,200.00
KERN COUNTY PUBLIC WORKS	waste disposal	2,500.00
LINCOLN FINANCIAL	pension/deferred comp contributions	17,000.00
LOWE'S	maintenance materials	500.00
MARCOM GROUP	district web site support	95.00
McMURTREY, HARTSOCK et al	professional services	2,000.00
O'REILLY AUTO PARTS	vehicle repair parts	500.00
ORKIN	pest control - office	99.00
P.G.&E.	district office utilities	3,000.00
PRINCIPAL LIFE INS.	dental/vision/life insurance premium	5,800.00
PROGRESSIVE TECH.	phones	466.00
QUINN	heavy equipment parts/repair	850.00
SSD SYSTEMS	office alarm monitoring	1,360.00
STEPHEN SMITH WEED CONTROL	weed control spraying service	500.00
STERLING ADMINISTRATION	medical insurance - annual fees	125.00
TARGET	weed control chemicals	50,000.00
UNITED AG	medical insurance premium	40,000.00
VERIZON	cell phones and service	605.00
WANGER, JONES, & HELLSLEY	professional services	77,000.00
WHITE CAP	maintenance peripherals	500.00
		301,200.00



2027 Meeting Calendar

January

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February

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March

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July

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September

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31						

November

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

December

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

Kern Delta Board Meeting (1st Tues. @ 12PM and 3rd Tues. @ 12PM Closed Session; 1:00PM Regular Session)

Operations and Projects Committee (1st Tues. of the Month @ 10:30AM)

Business and Finance Committee (Thurs. prior to the 3rd Tues. @ 10:00AM)

District Observed Holidays - Office Closed

Note: Meetings Subject to Change or Cancellation with Appropriate Notice.

Calendar Templates by Vertex42.com

Tab III

KERN DELTA
WATER DISTRICT

SPECIAL MEETING OF THE BUSINESS & FINANCE COMMITTEE

501 Taft Highway
Bakersfield, CA

TUESDAY November 10, 2026
10:00AM

A G E N D A

1. **Call to order**

2. **Public Comment Period**

3. **Approve Minutes of October 15, 2026, Meeting of the Business & Finance Committee**

4. **Financial Reports and Disbursements:**
   a. Approve October and November District and Banking Project(s) Disbursements
   b. Approve October 2026 Financial Reports

5. **District Controller's Report:**
   a. Resolution 2026-05 Levying Special Assessments Within Zones of Benefit
   b. Review of District Investments

6. **Committee Comments**

7. **Adjourn**

Jose Rivera
District Controller

Posted: Friday, November 6, 2026
Bakersfield, California

Requests for disability-related modifications or accommodations, including auxiliary aids or services may be made by telephoning or contacting Madelyne Rodriguez at the District Office (661-834-4656). Please attempt to make such requests known at least 24 hours before the scheduled meeting. Pursuant to Government Code section 54957.5, any materials relating to an open session item on this agenda, distributed to the Board of Directors after the distribution of the agenda packet, will be made available for public inspection at the time of distribution at the District, 501 Taft Highway, Bakersfield, CA.

MINUTES OF THE SPECIAL MEETING OF THE BUSINESS & FINANCE COMMITTEE
Tuesday, November 10, 2026

DIRECTORS PRESENT: Antongiovanni, Borba, Kaiser, Tillema

OTHERS PRESENT: From KDWD: General Manager Teglia, Assistant General Manager Bellue, District Counsel Iger, Controller Rivera

1. CALL TO ORDER

Chair Antongiovanni called the meeting to order at 10:03 A.M.

2. PUBLIC COMMENTS

None.

3. APPROVAL OF THE PREVIOUS COMMITTEE MEETING MINUTES

a. **M/S/C (Tillema/Kaiser) (yes – 4, no – 0):** The Business & Finance Committee approved the minutes of the Business & Finance Committee Meeting held on October 15, 2026, as presented.

4. FINANCIAL REPORTS AND DISBURSEMENTS

a.-b. Approval of October and November Disbursements and October 2026 Financial Reports.
M/S/C (Kaiser/Borba) (yes – 4, no – 0): The Business & Finance Committee recommends the Board approve the October and November District Disbursements, the November Water Banking Projects' Disbursements, the anticipated November end of month Disbursements, and the October 2026 District and Water Banking Projects' Financial Statements, Treasurer's Reports, and Delinquency Report as presented.

5. DISTRICT CONTROLLER'S REPORT

a. Resolution 2026-05 Levying Special Assessments Within Zones of Benefit.
Staff provided a brief update on the upcoming Public Hearing set for November 17, 2026, for the approval of Resolution 2026-05 Levying Special Assessments Within Zones of Benefit.

b. Review of District Investments.
Staff reviewed the status of the District's investment portfolio. No action was taken.

6. COMMITEE COMMENTS

None.

7. ADJOURN

Chair Antongiovanni adjourned the meeting at 10:42 A.M.

Respectfully submitted,

_____

Kevin Antongiovanni – Chair

BEFORE THE BOARD OF DIRECTORS OF
THE KERN DELTA WATER DISTRICT

IN THE MATTER OF: RESOLUTION NO. 2026-05

LEVYING SPECIAL ASSESSMENTS
WITHIN ZONES OF BENEFIT

WHEREAS, Article 2 (commencing with Section 35532) of Chapter 2.5 of Part 5 of Division 13 of the Water Code of the State of California establishes a procedure whereby the District may adopt or amend zones of benefit for the purpose of fixing special acreage assessments pursuant to Article 3 (commencing with Section 35539) of Chapter 2.5 of Part 5 of Division 13 of the Water Code varied in accordance with the extent of benefits to each zone derived or to be derived from services to the land in each zone in order to cause just and equitable sharing among the District's landowners of all or any portion of the District's obligations for the next year; and

WHEREAS, Article 3 (commencing with Section 35539) of Chapter 2.5 of Part 5 of Division 13 of the Water Code of the State of California establishes a procedure whereby this District may levy a special assessment of an equal amount upon each acre of developed land, upon each acre of undeveloped land, or both, within the District or within zones established pursuant to Sections 35534 and 35535, in order to cause just and equitable sharing among the District's landowners of all or any portion of District obligations for the next year in excess of receipts from water charges as reflected in the annual estimate of obligations; and

WHEREAS, this Board of Directors noticed and held a public hearing as to whether it is necessary to raise by special assessment the sum of $486,000.00 in order to meet a portion of the estimated obligations of the District during 2027 attributable to general administration of the District; and

WHEREAS, this Board of Directors noticed and held a public hearing as to whether it is also necessary to raise by special assessment the sum of $95,000.00 in order to meet a portion of the estimated obligations of the District during 2027 attributable to general benefits of District participation in the California State Water Project.

WHEREAS, this Board of Directors noticed and held a public hearing as to whether it is also necessary to raise by special assessment the approximate sum of $392,000.00 in order to meet a portion of the estimated obligations of the District during 2027 attributable to specific benefits of District's participation in the California State Water Project.

NOW, THEREFORE, BE IT RESOLVED AND ORDERED by this Board of Directors as follows:

1. That all the foregoing is true and correct.

2. That the respective share of benefits received by Zones of Benefit Numbers 1 through 11, inclusive, the criteria for establishing each such zone, and the percentage of benefit applicable thereto are described in Exhibit "A" attached hereto and incorporated herein by this reference.

3. That there is levied a special assessment in the amount of $4.34 upon each acre of developed and undeveloped land within the District in order to cause just and equitable sharing among the District's landowners of the portion of the District's obligations for 2027 in excess of receipts from water charges attributable to general administration of the District.

4. That there is levied a special assessment in the amount of $ .85 upon each acre of developed and undeveloped land within the District in order to cause just and equitable sharing among the District's landowners of the portion of the District's obligations for 2027 in excess of receipts from water charges attributable to general benefits of District participation in the California State Water Project.

5. That there is levied a special assessment in the amounts described below upon each acre of land within the Kern Delta Water District Zone Numbers 1 through 11, as described below, in order to cause just and equitable sharing among the District landowners of the portion of the District's obligations for 2027 in excess of receipts from water charges attributable to specific benefits of District's participation in the California State Water Project, to wit:

(a) Zone No. 1 (East Side) - $2.12 per acre;

(b) Zone No. 2 (Kern Island) - $1.36 per acre;

(c) Zone No. 3 (Farmers) - $3.82 per acre;

(d) Zone No. 4 (Stine) - $4.63 per acre;

(e) Zone No. 5 (Buena Vista) - $4.36 per acre;

(f) Zone No. 6 (South Fork) - $0.00 per acre;

(g) Zone No. 7 (City Sewer 2) - $0.00 per acre;

(h) Zone No. 8 (City Sewer 3) - $0.00 per acre;

(i) Zone No. 9 (Remaining Irr) - $5.46 per acre;

(j) Zone No. 10 (Undeveloped) - $0.00 per acre;

(k) Zone No. 11 (Commercial/Res) - $5.46 per acre;

6. That the levy of the special assessments described in paragraphs 3, 4 and 5 above, shall be and become effective on December 31st, which is at least 32 days following the adoption of this Resolution; provided however, that, if the Board receives a petition containing the signatures of persons holding title to 5% of the land area within the District before said date, the Board shall call an election of the qualified voters in the District and submit the Resolution to levy the special

assessments to such voters, and no levy of assessment shall be made unless and until the election is held and the assessments are approved, in whole or in part, by a majority vote of the qualified voters of the District.

7. That the special assessments levied pursuant hereto shall be due December 31, 2026, shall be payable in one installment, and shall be delinquent if not paid on or before June 30, 2027.

8. That the District's staff be is authorized and directed to collect said special assessments pursuant to the provision of Chapters 3,4, 5 and 6 of Part 7 of Division 13 of the California Water Code, all as prescribed in Section 35539.4 of said Code.

All the foregoing being on the motion of Director Mendonca, seconded by Director Kaiser and authorized by the following vote, to wit:

AYES:

NOES:

ABSENT:

I HEREBY CERTIFY that the foregoing Resolution is the resolution of said District as duly passed and adopted by said Board of Directors the 17th day of November 2026.

WITNESS my hand and the Seal of said Board of Directors this 17th day of November 2026.

_____
Rodney Palla
President of the Board of Directors

_____
Richard Tillema
Secretary of the Board of Directors

EXHIBIT "A"

CRITERIA FOR ESTABLISHING
KERN DELTA WATER DISTRICT
ZONES OF BENEFIT NUMBERS 1 THROUGH 11

Through a contract with the Kern County Water Agency, Kern Delta Water District has been importing water from the California State Water Project since the early 1970's. Approximately eighty percent (80%) of the water imported to the District has been delivered to landowners within the District for crop irrigation. Canal seepage losses have accounted for about twenty percent (20%) of the imported water. Surface water deliveries to landowners have allowed an equal reduction in pumping from the groundwater basin underlying the District. Canal seepage directly recharges the groundwater basin underlying the District.

The combination of reduced groundwater pumping and recharge has resulted in an improvement in groundwater levels as opposed to levels which would now exist if no imported water had been brought into the District. The general benefits due to improved water level have been estimated at $95,000.00 for 2027. The specific benefits due to improved water levels have been estimated at $392,000.00 for 2027.

The zones of benefit herein established have been identified as areas of common groundwater pumping. The specific benefits realized by each such zone are proportional to the total amount of water pumped from the groundwater basin. The general benefits are realized equally by all lands within the District. The general and special benefits have been distributed to several zones as follows:

ZONE	PERCENTAGE OF TOTAL BENEFIT	
	General	Special
1	3.72%	2.22%
2	31.16%	11.96%
3	4.89%	5.27%
4	9.28%	12.12%
5	10.04%	12.36%
6	0.02%	0.00%
7	2.07%	0.00%
8	0.54%	0.00%
9	30.80%	47.45%
10	1.89%	0.00%
11	5.59%	8.62%
	100.00%	100.00%

Kern Delta Water District
Balance Sheet
As of October 31, 2026

	10/31/2026	09/30/2026	Month-to-Month Variance
Assets			
Current Assets			
Cash & Cash Equivalents	36,938,658	37,541,905	(603,247)
Accounts Receivable	323,126	486,837	(163,711)
Inventory & Prepaid Expenses	573,558	406,309	167,250
Total Current Assets	37,835,342	38,435,051	(599,708)
Net Fixed Assets			
Fixed Assets			
District Structures, Rights of Way	18,929,122	18,760,344	168,776
CVC Expansion	8,795,337	8,795,338	0
Machinery & Equipment	4,476,476	4,476,476	0
Fixed Assets	32,200,935	32,032,158	168,776
Less Accumulated Depreciation	(9,636,992)	(9,584,993)	(52,000)
Net Fixed Assets	22,563,943	22,447,166	116,776
Investment in Joint Powers Authority	41,519	41,519	0
Investment in Banking Project	9,527,537	9,527,537	0
Investment in Sunset Banking Program	1,657,862	1,657,861	0
Total Assets	**71,626,203**	**72,109,134**	**(482,932)**
Liabilities & Equity			
Current Liabilities			
Accounts Payable	610,604	332,970	277,635
Deposits Held for Others	26,500	26,500	0
Other Liabilities	224,374	224,143	230
Total Current Liabilities	861,478	583,613	277,865
Long Term Liabilities			
Bonds & COP Debt	2,545,000	2,815,000	(270,000)
Bonds Premium & Costs	68,693	68,693	0
Total Long Term Liabilities	2,613,693	2,883,693	(270,000)
Equity From Past Years	70,282,184	70,282,183	0
Accumulated Equity - Current Year	(2,131,152)	(1,640,355)	(490,797)
Total Liabilities & Equity	**71,626,203**	**72,109,134**	**(482,932)**

Created on 11/09/2026

Kern Delta Water District
Cash Variance Analysis
October 31, 2026

Cash Received:	
Accounts Receivable Collections	235,928
Property Tax Receipts	108,151
Interest Received	42,669
	386,749
Cash Disbursed:	
Annual Bond Premium/Interest Payment	(318,800)
Target/UPL - Weed Chemicals	(140,370)
Black/Hall Construction - Shop Expansion	(100,937)
Professional Services	(82,702)
Cross Landleveling Inc. Stenderup Surge Pond	(78,930)
Medical/Dental Monthly Insurance Premiums	(45,235)
Diesel/Gas for Fleet	(27,897)
NKWSD - W/M Charge, Weather Mod, Golden Muss. Campaign	(15,936)
Land IQ - ET Evaluation	(12,393)
B&B Surplus - Beams/Pipe	(9,709)
Canal maintenance & Supplies - Lumber	(8,840)
Zenith Insurance - Workers' Comp	(7,385)
Citizens Credit Card - Office Supplies/Catering	(7,251)
KCTTC - Property Taxes	(6,932)
Progressive Tech/Carefree Tech - Cyber Security, Tech	(6,235)
PG&E	(2,553)
Kern County Public Works	(2,048)
Other Disbursements	(43,122)
	(917,275)
Payrolls Paid	(274,942)
	(1,192,218)
Positive/(Negative) Cash Variance Before FMV Adjustment	(805,469)
FMV Adjustment	202,222
Adjusted Positive/(Negative) Cash Variance	(603,247)

Kern Delta Water District
Accounts Receivable Variance Analysis
October 31, 2026

Revenue Added to Accounts Receivable:	
Water Sales - Utility Water	65,501
Penalties/Interest/Adjustments	938
District Wells	279
	66,717
Cash Received:	
Water Payments	(150,611)
Misc Payments	(77,500)
Assessments Payments	(2,317)
	(230,428)
	(230,428)
Net positive/(negative) variance	**(163,711)**

Kern Delta Water District
Inventory/Prepaids Variance Analysis
October 31, 2026

Additions to Accounts:	
Weed Control Chemicals Purchased	-
Prepaid Additions	270,601
	270,601
Usage/Amortization:	
Chemicals Consumed During Month	(28,657)
Amortization of Prepaid Accounts	(74,695)
	(103,351)
Net positive/(negative) variance	**167,250**

Kern Delta Water District
Statement of Operating Results
Through the Period Ended October 31, 2026

	Current Month	Year to Date	Annual Budget KDWD Budget 2026	YTD as %age of Budget (Target is 83%)	Budget Remaining
REVENUE					
State Water Sales	0	805,786	1,102,239	73 %	(296,453)
Utility Water Sales	65,501	2,746,207	3,214,296	85 %	(468,089)
Seepage Revenue	0	497,185	900,001	55 %	(402,815)
Equalization	0	9,275	9,275	100 %	0
Assessments	0	971,727	974,743	100 %	(3,016)
Property Tax	108,151	3,897,855	7,300,000	53 %	(3,402,146)
Interest Revenue	44,122	1,009,786	996,760	101 %	13,026
Other Revenue	5,779	220,278	275,000	80 %	(54,722)
Water Transfer Charges	0	860,709	1,000,000	86 %	(139,291)
Expense Reimb From Banking	0	0	150,000	0 %	(150,000)
Total Revenue	223,553	11,018,808	15,922,314	69 %	(4,903,506)
EXPENDITURES					
Source of Supply					
State Water Costs	0	3,491,577	4,000,000	87 %	(508,423)
Exchange Fees	0	0	63,750	0 %	(63,750)
Watermaster, City, Isabella	178,542	530,781	591,561	90 %	(60,781)
Grower Recharge Program Costs	0	0	0	0 %	0
Miscellaneous Source Costs	0	954,796	950,000	101 %	4,797
Total Source of Supply	178,542	4,977,154	5,605,311	89 %	(628,157)
Transmission and Distribution					
Labor	269,564	2,689,883	3,211,028	84 %	(521,145)
Employee Benefits	92,155	1,027,607	1,253,403	82 %	(225,796)
Maintenance & Repairs	95,284	1,012,416	1,783,244	57 %	(770,828)
Total Transmission and Distribution	457,003	4,729,906	6,247,675	76 %	(1,517,769)
Administrative & Other Costs					
Engineering Consultants	0	23,539	50,000	47 %	(26,462)
Legal Expense	630	3,836	10,000	38 %	(6,163)
Special Legal/Engineering	93,218	823,686	900,000	92 %	(76,314)
Office Operations	33,340	353,796	496,745	71 %	(142,949)
Insurance	26,901	226,809	313,095	72 %	(86,287)
Special Expenses	13,745	806,233	1,161,000	69 %	(354,766)
Kern River GSA & SGMA	12,393	165,087	320,000	52 %	(154,913)
Construction Expense - Peripheral	0	0	0	0 %	0
Bond Interest Expense	48,800	96,688	89,022	109 %	7,666
FMV Adjustment	(202,222)	423,226	0	0 %	423,226
Depreciation	52,000	520,000	0	0 %	520,000
Total Administrative & Other	78,805	3,442,900	3,339,862	103 %	103,038
Total Expenses	714,350	13,149,960	15,192,848	87 %	(2,042,888)
Net Fav/(Unfav) Operating Results	**(490,797)**	**(2,131,152)**	**729,466**	**(292) %**	**(2,860,618)**

KERN DELTA WATER DISTRICT
Labor and Benefits Tracker
2026

Actual Cost	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	**TOTAL 2026**
Wages & Salaries	258,785	241,933	267,524	264,200	284,630	276,010	284,869	281,470	260,897	269,564			2,689,883
Payroll Taxes - Employer Paid	19,826	18,184	20,109	19,865	21,417	20,704	21,309	19,664	18,122	17,495			196,695
Medical/Dental/Vision - Cost	53,853	49,639	54,247	58,764	51,743	50,832	43,713	48,851	47,592	41,482			500,716
Medical/Dental/Vision - Employee Withheld	(4,976)	(4,573)	(5,044)	(4,882)	(5,044)	(4,881)	(2,766)	(5,044)	(4,717)	(4,832)			(46,759)
Workers' Comp Insurance	5,969	5,969	5,969	449	6,518	11,547	6,518	6,518	6,518	6,518			62,493
Life/LTD/AD&D	1,682	1,809	1,809	1,804	1,774	1,745	1,745	1,864	1,741	1,776			17,748
Retirement Plan	23,371	23,051	24,521	23,901	25,458	24,637	25,478	25,305	23,609	24,059			243,391
Uniforms and Other Benefits	1,738	1,729	2,331	3,648	2,919	2,326	2,393	5,126	3,939	5,921			32,070
Total Benefits	101,463	95,808	103,942	103,550	104,785	106,910	98,389	102,283	96,804	92,420	-	-	1,006,354
Total Before Vacation Accrual	**360,248**	**337,741**	**371,466**	**367,750**	**389,415**	**382,920**	**383,259**	**383,753**	**357,701**	**361,984**	**-**	**-**	**3,696,237**

Budgeted Cost													
Wages & Salaries	270,852	245,031	268,767	260,153	282,082	270,710	282,399	267,427	261,277	267,733			2,676,431
													-
Payroll Taxes - Employer Paid	19,789	17,903	19,630	19,000	20,780	19,936	20,804	19,045	17,742	17,914			192,543
Medical/Dental/Vision - Cost	49,940	49,940	49,940	49,940	49,940	49,940	49,940	49,940	49,941	49,941			499,402
Medical/Dental/Vision - Employee Withheld	(4,728)	(4,728)	(4,728)	(4,728)	(4,728)	(4,728)	(4,728)	(4,728)	(4,728)	(4,728)			(47,280)
Workers' Comp Insurance	6,035	6,035	6,035	6,035	6,638	6,639	6,638	6,639	6,638	6,639			63,971
Life/LTD/AD&D	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700			17,000
Retirement Plan	26,105	23,613	25,917	25,086	27,549	26,456	27,578	27,379	26,719	27,407			263,809
Uniforms and Other Benefits	2,948	2,948	3,898	2,947	2,948	3,898	2,947	2,948	3,898	2,947			32,327
Total Benefits	101,789	97,411	102,392	99,980	104,827	103,841	104,879	102,923	101,910	101,820	-	-	1,021,772
Total Labor and Benefits	**372,641**	**342,442**	**371,159**	**360,133**	**386,909**	**374,551**	**387,278**	**370,350**	**363,187**	**369,553**	**-**	**-**	**3,698,203**

Budget vs Actual Variance - Fav/(Unfav)													
Wages & Salaries	12,067	3,098	1,243	(4,047)	(2,548)	(5,300)	(2,470)	(14,043)	380	(1,831)	-	-	(13,452)
Payroll Taxes - Employer Paid	(37)	(281)	(479)	(865)	(637)	(768)	(505)	(619)	(380)	419	-	-	(4,152)
Medical/Dental/Vision - Cost	(3,913)	301	(4,307)	(8,824)	(1,803)	(892)	6,227	1,089	2,349	8,459	-	-	(1,314)
Medical/Dental/Vision - Employee Withheld	248	(155)	316	154	316	153	(1,962)	316	(11)	104	-	-	(521)
Workers' Comp Insurance	66	66	66	5,586	120	(4,908)	120	121	120	121	-	-	1,478
Life/LTD/AD&D	18	(109)	(109)	(104)	(74)	(45)	(45)	(164)	(41)	(76)	-	-	(748)
Retirement Plan	2,734	562	1,396	1,185	2,091	1,819	2,100	2,074	3,110	3,348	-	-	20,418
Uniforms and Other Benefits	1,210	1,219	1,567	(701)	29	1,572	554	(2,178)	(41)	(2,974)	-	-	257
Total Benefits	326	1,603	(1,550)	(3,570)	42	(3,069)	6,490	641	5,106	9,400	-	-	15,418
Total Labor and Benefits	**12,393**	**4,701**	**(307)**	**(7,617)**	**(2,506)**	**(8,369)**	**4,019**	**(13,403)**	**5,486**	**7,569**	**-**	**-**	**1,966**

Vacation Accrual - Incr/(Decr) - Actual	(4,405)	11,533	9,586	12,647	8,372	1,186	(13,878)	62	(4,080)	230			21,253
Vacation Accrual - Incr/(Decr) - Budget	1,250	1,250	1,250	1,250	1,250	1,250	1,250	1,250	1,250	1,250			12,500
Variance	**(5,655)**	**10,283**	**8,336**	**11,397**	**7,122**	**(64)**	**(15,128)**	**(1,188)**	**(5,330)**	**(1,020)**			**(8,753)**

KERN DELTA WATER DISTRICT

TREASURER'S REPORT

October 2026

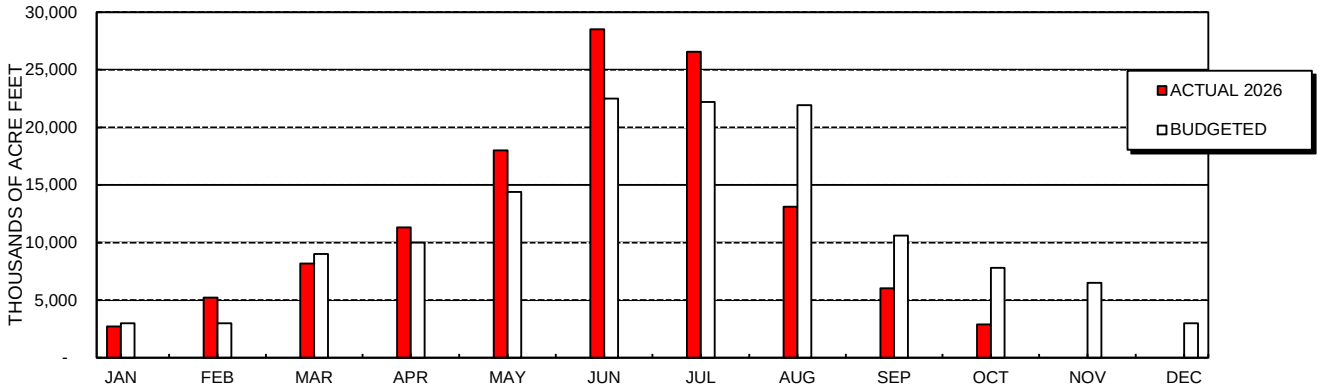
	2026	2025	2024	2023
Cash & Securities on hand - October 1, 2026	$ 37,541,905	$ 37,015,383	$ 33,785,301	$ 24,813,914
Add: October receipts	589,486	309,761	539,912	1,054,063
Less: October disbursements	(1,192,733)	(1,140,873)	(984,851)	(1,083,760)
Cash & Securities on hand - October 31, 2026	**$ 36,938,658**	**$ 36,184,270**	**$ 33,340,362**	**$ 24,784,217**

Petty Cash	**$ 500**
Citizens Business Bank	**352,447**
Kern County Treasury	**159,249**
CAMP	**7,566,092**
LPL Financial	**28,860,370**
	$ 36,938,658

Restricted Reserves:				
Restricted Reserve Fund - Water Resources Manager	$ -	$ (138,076)	$ (235,000)	$ (294,583)
Unrestricted Reserves:				
Pipeline Maintenance	(434,524)	(311,912)	(311,912)	(216,912)
Water Rights Protection & Litigation Reserve	(5,000,000)	(3,408,358)	(3,408,358)	(3,168,358)
2015-A COP Reserve Fund	(2,815,000)	(3,075,000)	(3,325,000)	(3,565,000)
Operating Reserve	(5,000,000)	(5,000,000)	(5,000,000)	(5,000,000)
Capital Reserve	(4,000,000)	(2,000,000)	(2,000,000)	(2,000,000)
Groundwater Program Reserve	(3,500,000)	(3,500,000)	(3,500,000)	(3,500,000)
Kern River GSA Well Mitigation Reserve	(1,000,000)	(250,000)	-	-
Water Supply Augmentation Reserve	(4,000,000)			
Golden Mussel Mitigation Reserve	(2,000,000)			
Total Reserves	**$ (27,749,524)**	**$ (17,683,346)**	**$ (17,780,270)**	**$ (17,744,853)**
Cash Available - October 31, 2026	**$ 9,189,133**	**$ 18,500,924**	**$ 15,560,092**	**$ 7,039,364**

Kern Delta Water District
Monthly Water Sales Volume
in Acre Feet

	2025	2026										
	Actual	Budgeted		Actual								
	(Accum-ulated)	Monthly	(Accum-ulated)	Monthly				Accumulated				% of Budget
				Utility	State	Contracts	Total	Utility	State	Contracts	Total	
JAN	4,579	3,000	3,000	2,609	-	104	2,713	2,609	-	104	2,713	90%
FEB	8,141	3,000	6,000	4,897	-	328	5,224	7,506	-	431	7,937	132%
MAR	14,921	9,000	15,000	7,719	53	398	8,169	15,224	53	829	16,106	107%
APR	25,656	10,000	25,000	10,886	52	372	11,311	26,110	105	1,201	27,417	110%
MAY	43,862	14,400	39,400	17,316	207	474	17,997	43,426	312	1,676	45,414	115%
JUN	71,352	22,500	61,900	23,844	4,188	488	28,521	67,271	4,501	2,164	73,935	119%
JUL	101,010	22,200	84,100	22,331	3,780	451	26,562	89,601	8,281	2615	100,497	119%
AUG	118,421	21,929	106,029	11,533	1,259	313	13,105	101,135	9,540	2,927	113,602	107%
SEP	126,125	10,600	116,629	5,649	141	238	6,028	106,783	9,680	3,166	119,629	103%
OCT	130,273	7,800	124,429	2,729	-	155	2,884	109,513	9,680	3,320	122,513	98%
NOV	132,174	6,500	130,929				-					0%
DEC	132,206	3,000	133,929				-					0%



KERN DELTA WATER DISTRICT

Aged Accounts Receivable
Past Due Accounts
November 17, 2026

Account	Name	0-30 Days	31-60 Days	61-90 Days	Over 90 Days	Total Past Due
592	Costa, Joe & Mary	172.50	-	-	-	172.50
994	Giannelli Farms	64.15	63.20	1,973.70	2,239.55	4,340.60
2362	Tesch, Greg	16.33	429.53	659.35	-	1,105.21
2437	Upple, Shinda	113.07	2,084.36	5,453.41	-	7,650.84
3243	Dewar Family Trust	146.64	-	-	-	146.64
3713	Cruz, Juan Carlos	1.74	1.71		114.33	117.78
3836	Frick, Joel	693.99	-	-	-	693.99
5189	Family Tree Farms LLC	1,353.00	-	-	-	1,353.00
5196	Hernandez, Alfredo	287.23	-	-	-	287.23
5608	Presido Farm Development	379.57	-	-	-	379.57
5687	Guardado Luis	2.36	58.13	-	99.07	159.56
5739	Tecuya Tree & Vine	6.48	30.32	149.02	252.76	438.58
5864	Rodd Living Trust	320.88	-	-	-	320.88
5938	Prestige Ranch LLC	175.05	6,479.85	5,190.00	-	11,844.90
5977	Mike Vandborg Farms	91.81	2,827.32	3,214.54	78.83	6,212.50
6147	Pryor, Josh	3.98	74.80	190.51	-	269.29
	OTHER	244.28	126.59	-	28.74	399.61
		4,073.06	12,175.81	16,830.53	2,813.28	35,892.68

Kern Delta Water Banking Project
Balance Sheet
As of October 31, 2026

	10/31/2026	09/30/2026	Month-to-Month Variance
Total Assets			
Current Assets			
Cash & Cash Equivalents	5,906,204	5,916,738	(10,534)
Inventory and Prepaids	85,334	85,334	0
Total Current Assets	5,991,538	6,002,072	(10,534)
Fixed Assets			
CVC Expansion	16,672,371	16,672,371	0
All Other Structures	48,332,580	48,332,580	0
Machinery and Equipment	598,824	598,824	0
Less Accumulated Depreciation	(14,618,544)	(14,569,544)	(49,000)
Fixed Assets Net of Depreciation	50,985,231	51,034,231	(49,000)
Other Assets			
Investment in Sunset Banking Project	1,657,861	1,657,861	0
Total Other Assets	1,657,861	1,657,861	0
Total Assets	**58,634,630**	**58,694,164**	**(59,534)**
Total Liabilities & Equity			
Current Liabilities			
Accounts Payable	9,435	28,054	(18,620)
Total Current Liabilities	9,435	28,054	(18,620)
Equity			
Capital Contributions From KDWD	9,527,537	9,527,537	0
Equity From Past Years	50,225,133	50,225,134	0
Accumulated Equity - Current Year	(1,127,475)	(1,086,561)	(40,914)
Total Equity	58,625,195	58,666,110	(40,914)
Total Liabilities & Equity	**58,634,630**	**58,694,164**	**(59,534)**

Created on 11/09/2026

Kern Delta Water Banking Project
Cash Variance Analysis
October 31, 2026

Cash Received:	
Interest Received	12,718
	12,718
Cash Disbursed:	
KCWA - CVC 4th Qtr 2026 CVC Ops & Power	(16,935)
Weed Control Labor by Others	(7,150)
Hughes Surveying - Stenderup Surge Pond	(2,592)
PG&E - Well Power	(413)
Equipment Maintenance	(296)
	(27,385)
Positive/(Negative) Cash Variance Before FMV Adjustment	**(14,667)**
FMV Adjustment	4,133
Adjusted Positive/(Negative) Cash Variance	**(10,534)**

Kern Delta Water Banking Project
Statement of Operating Results
As of October 31, 2026

	Current Month	Year to Date
REVENUE:		
Interest Revenue	12,718	142,750
Total Revenue	12,718	142,750
EXPENSES		
Other Costs		
Power Cost - Wells	1,340	15,140
CVC Operating Costs	0	535,792
CVC Power Costs	0	7,885
Spreading OM&R	7,426	229,067
Wells OM&R and Other	0	14,455
FMV Adjustment	(4,133)	(22,114)
Depreciation	49,000	490,000
Total Other Costs	53,633	1,270,225
Total All Expenses	53,633	1,270,225
Favorable/(Unfavorable) Operating Results	**(40,915)**	**(1,127,475)**

Created on 11/09/2026

KERN DELTA WATER BANKING PROJECT

TREASURER'S REPORT

October 2026

		2026	2025	2024	2023
Cash & Securities on hand - October 1, 2026		$ 5,916,738	$ 6,504,023	$ 7,101,593	$ 6,253,450
Add: October receipts		16,851	95,723	61,622	21,326
Less: October disbursements		(27,385)	(80,546)	(334,275)	(9,154)
Cash & Securities on hand - October 31, 2026		**$ 5,906,204**	**$ 6,519,200**	**$ 6,828,940**	**$ 6,265,623**
Citizens Business Bank	**$ 153,345**				
Kern County Treasury	**55,244**				
CAMP	**4,624,200**				
LPL Financial	**1,073,415**				
	$ 5,906,204				
Restricted Cash included in above:	OM&R Spreading	$ (488,707)	$ (159,307)	$ (194,739)	$ (111,625)
	OM&R Extraction	(14,490)	(377,296)	(591,764)	(499,513)
	Take/Put Fees	(1,884,119)	(1,884,119)	(2,014,124)	(3,900,399)
Total Restricted		$ (2,387,317)	$ (2,420,722)	$ (2,800,627)	$ (4,511,537)
Cash Available for Construction - October 31, 2026		**$ 3,518,887**	**$ 4,098,478**	**$ 4,028,313**	**$ 1,754,086**

Sunset Water Banking Project
Balance Sheet
As of October 31, 2026

	10/31/2026	09/30/2026	Month-to-Month Variance
Assets			
Current Assets			
Cash & Cash Equivalents	126,077	126,465	(388)
Inventory & Prepaid Expenses	2,172	2,172	0
Total Current Assets	128,249	128,637	(388)
Fixed Assets			
Construction in Progress	6,497,311	6,497,311	0
Total Fixed Assets at Cost	6,497,311	6,497,311	0
Net Fixed Assets	6,497,311	6,497,311	0
Total Assets	**6,625,560**	**6,625,948**	**(388)**
Liabilities & Equity			
Current Liabilities			
Accounts Payable	0	0	0
Total Current Liabilities	0	0	0
Equity			
Contributions to Equity - KDWD	1,627,928	1,627,928	0
Contributions to Equity - KDWBP	1,627,929	1,627,929	0
Contributions to Equity - AEWSD	3,255,856	3,255,856	0
Equity From Past Years	119,733	119,733	0
Accumulated Equity - Current Year	(5,886)	(5,498)	(388)
Total Equity	6,625,560	6,625,948	(388)
Total Liabilities & Equity	**6,625,560**	**6,625,948**	**(388)**

Sunset Water Banking Project
Statement of Operating Results
As of October 31, 2026

	Current Month	Year to Date
Revenue		
Interest Revenue	709	6,596
Total Revenue	709	6,596
Expenses		
Ops, Maintenance, & Repair Costs	1,102	10,553
FMV Adjustment	(5)	1,929
Insurance	0	2,172
Total Expenses	1,097	14,654
Fav/(Unfav) Operating Results	**(388)**	**(8,058)**

Created on 11/09/2026

SUNSET BANKING PROJECT

TREASURER'S REPORT

October 2026

		2026	2025	2024	2023
Cash & Securities on hand - October 1, 2026		$ 126,465	$ 428,263	$ 946,431	$ 2,516,533
Add: October receipts		714	6,992	4,213	11,868
Less: October disbursements		(1,103)	(1,050)	(11,133)	(5,481)
Cash & Securities on hand - October 31, 2026		**$ 126,077**	**$ 434,206**	**$ 939,511**	**$ 2,522,920**
Citizens Business Bank	**3,409**				
Kern County Treasury	**3,601**				
CAMP	**119,067**				
	$ 126,077				
Unrestricted Reserves:					
Cash From Operations		0	(18,051)		
Total Reserves		**$ 0**	**$ (18,051)**	**$ -**	**$ -**
Cash Available - October 31, 2026		**$ 126,077**	**$ 416,155**	**$ 939,511**	**$ 2,522,920**

Kern Delta Water District Summary of Invested Cash Reserves
US Treasury Investment Summary
As of October 31, 2026

Acquistion Date	Maturity Date	Quantity (Q)	Par Value (PV)	Customer Price (P)	Principal (Prin) (Q x P)	Accrued Interest (AI)	Service Charge	Net Money (NM) (Prin + AI)	Coupon Rate (CR)	Coupon Interest (Cou)	Discount Returned (Disc) (PV - Prin)	Estimated Total Yield (Y) (Cou + Disc)	YTM
10/28/2022	1/24/2023	999	999,000	991.61	990,615.59	-	5	990,621	0.000%	-	8,384	8,384	3.511%
10/28/2022	1/26/2023	999	999,000	991.32	990,328.68	-	5	990,334	0.000%	-	8,671	8,671	3.551%
10/28/2022	7/13/2023	1,000	1,000,000	971.80	971,803.96	-	5	971,809	0.000%	-	28,196	28,196	4.105%
10/28/2022	8/10/2023	1,000	1,000,000	968.43	968,427.19	-	5	968,432	0.000%	-	31,573	31,573	4.161%
10/14/2022	9/30/2023	1,000	1,000,000	987.39	987,390.00	1,105.77	5	988,501	2.875%	27,647	12,610	40,257	4.240%
10/14/2022	9/30/2023	1,000	1,000,000	972.49	972,490.72	528.85	5	973,025	1.375%	13,223	27,509	40,732	4.355%
10/14/2022	9/30/2023	1,000	1,000,000	961.80	961,803.13	96.15	5	961,904	0.250%	2,404	38,197	40,601	4.390%
11/7/2022	2/15/2024	3,000	3,000,000	975.38	2,926,130.00	18,831.52	5	2,944,967	2.750%	105,103	73,870	178,973	4.801%
11/7/2022	4/30/2024	3,000	3,000,000	962.00	2,886,005.00	1,160.22	5	2,887,170	2.000%	88,603	113,995	202,598	4.754%
10/14/2022	10/15/2024	1,000	1,000,000	929.20	929,205.00	3,107.92	5	932,318	0.625%	12,106	70,795	82,901	4.606%
10/14/2022	10/31/2024	1,000	1,000,000	960.50	960,507.24	10,210.60	5	970,723	2.250%	44,568	39,493	84,061	4.418%
10/14/2022	10/31/2024	1,000	1,000,000	945.55	945,553.94	6,807.07	5	952,366	1.500%	29,712	54,446	84,158	4.493%
7/26/2023	1/31/2025	2,000	2,000,000	964.10	1,928,191.18	24,309.39	5	1,952,506	2.500%	76,027	71,809	147,836	4.946%
7/26/2023	4/15/2025	2,000	2,000,000	962.15	1,924,305.00	14,631.15	5	1,938,941	2.625%	90,369	75,695	166,064	4.993%
8/16/2023	7/31/2025	1,000	1,000,000	916.08	916,084.79	108.70	5	916,198	0.250%	4,850	83,915	88,765	5.067%
10/18/2023	10/15/2025	3,000	3,000,000	985.27	2,955,829.07	1,045.08	5	2,956,879	4.250%	253,258	44,171	297,429	5.052%
2/20/2024	1/31/2026	3,000	3,000,000	995.00	2,985,005.00	7,005.50	5	2,992,016	4.250%	253,258	14,995	268,253	4.512%
5/24/2024	5/31/2026	3,505	3,505,000	923.54	3,237,023.67	12,640.98	5	3,249,670	0.750%	52,216	267,976	320,192	4.966%
8/22/2024	8/31/2026	3,000	3,000,000	954.40	2,863,166.03	19,616.17	5	2,882,787	1.375%	83,630	129,380	213,010	3.735%
8/22/2024	11/30/2026	2,000	2,000,000	955.20	1,910,434.38	7,370.22	5	1,917,810	1.625%	64,556	76,071	140,627	3.696%
8/22/2024	1/15/2027	2,000	2,000,000	1,007.30	2,001,308.88	8,260.87	5	2,009,575	4.000%	192,219	(44,614)	147,605	3.703%
11/21/2024	4/30/2027	4,000	4,000,000	915.90	3,993,398.50	1,264.64	5	3,994,668	0.500%	48,767	281,835	330,602	4.156%
1/23/2025	6/30/2027	2,184	2,184,000	915.51	1,999,469.62	693.81	5	2,000,168	0.500%	26,567	140,020	166,587	4.183%
2/18/2025	11/30/2027	2,198	2,198,000	908.00	1,993,065.00	3,015.11	5	1,996,085	0.625%	33,422	131,850	165,272	4.163%
10/17/2025	2/15/2028	3,000	3,000,000	987.10	2,961,305.00	14,796.20	5	2,976,106	2.750%	192,575	38,965	231,540	3.350%
10/23/2025	5/15/2028	3,000	3,000,000	988.56	2,965,672.82	37,968.75	5	3,003,647	2.875%	206,764	34,327	241,091	3.391%
6/18/2026	8/31/2028	3,000	3,000,000	941.01	2,823,020.00	10,088.32	5	2,833,113	1.125%	68,887	176,980	245,867	3.949%
6/18/2026	12/31/2028	2,000	2,000,000	937.97	1,875,940.32	12,838.40	5	1,888,784	1.375%	65,548	124,060	189,608	3.980%
8/19/2026	3/31/2029	2,000	2,000,000	957.32	1,914,653.12	18,299.18	5	1,932,952	2.375%	124,281	85,347	209,628	4.112%
9/16/2026	4/15/2029	2,000	2,000,000	983.34	1,966,675.00	32,609.29	5	1,999,284	3.875%	200,014	33,325	233,339	4.566%
2/19/2026	11/15/2035	2,000	2,000,000	999.41	1,998,828.76	21,215.47	5	2,020,049	4.000%	778,959	21,215	778,959	4.002%
			29,382,000		28,403,771.40								

Fixed Income CDs Investment Summary
As of October 31, 2026

Purchase Date	Maturity Date	Days to Maturity	Quantity/ Price	Service Charge	Net Amount	YTM	Expected Interest
5/18/2023	11/5/2024	537	250,000	5	250,000.04	5.050%	18,574
5/23/2023	11/22/2024	549	250,000	5	250,000.29	4.850%	18,237
5/25/2023	11/25/2024	550	250,000	5	250,001.68	5.100%	19,212
5/25/2023	11/25/2024	550	250,000	5	250,001.68	5.050%	19,024
5/26/2023	11/26/2024	550	250,000	5	250,001.69	5.050%	19,024
5/30/2023	11/29/2024	549	250,000	5	250,000.29	4.950%	18,613
5/19/2023	2/19/2025	642	250,000	5	250,000.15	4.850%	21,327
5/31/2023	4/30/2025	700	250,000	5	250,000.23	4.750%	22,774
5/19/2023	5/19/2025	731	250,000	5	250,000.13	4.850%	24,283
5/24/2023	5/22/2025	729	250,000	5	250,000.17	4.850%	24,217
5/24/2023	5/23/2025	730	250,000	5	250,000.17	4.850%	24,250
5/26/2023	5/26/2025	731	250,000	5	250,000.19	4.650%	23,282
5/24/2023	5/27/2025	734	250,000	5	250,000.20	4.850%	24,383
5/24/2023	5/27/2025	734	250,000	5	250,000.20	4.850%	24,383
5/30/2023	5/30/2025	731	250,000	5	250,000.22	4.950%	24,784
6/2/2023	6/2/2025	731	250,000	5	250,000.02	4.850%	24,283
5/24/2024	6/5/2026	742	250,000	5	250,000.01	5.000%	25,411
5/24/2024	6/1/2026	738	250,000	5	250,000.03	5.000%	25,274

Total Invested Funds at Cost	28,403,771.40
Cash Balance	63,654.72
Cost Basis	28,467,426.12
Unrealized Gain/Loss	392,943.44
Market Value	28,860,369.56

Investment in CAMP Term Funds
As of October 31, 2026

Trade Date	Maturity Date	Days to Maturity	Quantity/ Price	YTM
12/12/2025	12/11/2026	364	3,000,000	3.71%
3/13/2026	3/12/2027	364	1,000,000	3.71%

Kern Delta Water Banking Project
US Treasury Investment Summary
As of October 31, 2026

Purchase Date	Maturity Date	Quantity (Q)	Par Value (PV)	Customer Price (P)	Principal (Prin) (Q x P)	Accrued Interest (AI)	Service Charge	Net Money (NM) (Prin + AI)	Coupon Rate (CR)	Coupon Interest (Cou)	Discount Returned (Disc)	Estimated Total Yield (Y)	YTM
11/4/2022	4/13/2023	999	999,000	981.93	980,949.74	-	5	980,955					
11/4/2022	4/20/2023	999	999,000	980.82	979,840.12	-	5	979,845					
11/4/2022	4/27/2023	999	999,000	979.89	978,907.61	-	5	978,913					
8/22/2024	7/31/2025	2,000	2,000,000	962.30	1,926,725.00	298.91	5	1,927,029	0.250%	9,932	73,275	163,750	4.267%
11/21/2024	4/30/2027	1,000	1,000,000	1,090.00	998,271.32	316.16	5	998,592	0.500%	12,158	70,554	82,712	4.160%
			1,000,000		998,271.32								

Fixed Income CDs Investment Summary
As of October 31, 2026

Purchase Date	Maturity Date	Days to Maturity	Quantity/ Price	Service Charge	Net Amount	YTM	Expected Interest
5/31/2023	12/2/2024	551	250,000	5	250,000.02	5.100%	19,247
5/31/2023	12/2/2024	551	250,000	5	250,000.02	5.100%	19,247
5/31/2023	12/2/2024	551	250,000	5	250,000.02	5.100%	19,247
5/30/2023	5/30/2025	731	250,000	5	250,000.21	4.850%	24,283
5/31/2023	5/30/2025	730	250,000	5	250,000.22	4.950%	24,750

Total Invested Funds at Cost	998,271.32
Cash Balance	3,231.20
Cost Basis	1,001,502.52
Unrealized Gain/Loss	71,912.48
Market Value	1,073,415.00

Investment in CAMP Term Funds
As of October 31, 2026

Trade Date	Maturity Date	Days to Maturity	Quantity/ Price	YTM
7/17/2026	7/15/2027	364	1,000,000	4.16%

Tab IV

KERN DELTA
WATER DISTRICT

OPERATIONS AND PROJECTS COMMITTEE MEETING

501 Taft Highway
Bakersfield, CA

TUESDAY November 3, 2026

CANCELED

The November 3, 2026 Operations and Projects Committee Meeting has been canceled.

To: Kern Delta Water District Board of Directors

From: Daniel Deleon

Date: November 17th, 2026

Re: Encroachment Permit Applications & Easement Requests

DISCUSSION:

The following are the organizations that have applied for an encroachment permit with Kern Delta Water District and a summary of their intended locations and purposes for encroaching.

Organization: Unified
Location: Eastside Canal, North of Redbank
Purpose: East Niles Fluidization Project
Anticipated Dates: TBD

Maintenance Report

October 2026

1. **Structure and Turnout Repairs.** The following jobs were completed during the month.
    a. Cleaned water filter and installed 2 new water pumps on traveling screens on the Central Canal.
    b. Removed screens and cleaned DiGiorgio weir slab in preparation for traveling screen installation in November.
    c. Repaired weir #205 on the BV Canal replaced 2 I-beams.
    d. Repaired weir #529 on the BV Canal complete rebuild/replaced all I-beam(4x4) board slides and support I-beams (4x6).
    e. Rebuild gate #2-0-305 and reinstall.
    f. Replaced stem on turn out 2-0-103.
    g. Replaced #40B back up structure on the Randall Ditch.
2. **Shop.** The following jobs were completed during the month;
    a. Normal service and repairs on District vehicles and equipment.
    b. Serviced the grader equipment #403.
    c. Serviced backhoe equipment #404, replaced batteries, belt and had 2 hydraulic rams rebuilt.
    d. Replaced upper ball joints on truck #224.
    e. Replaced belt tensioner and belt on truck #324.
    f. Replaced left taillight on truck #222.
3. **District Wells.**
    a. Monthly service and inspection of all District wells, clean pads as needed.
    b. Run BV-4 for a few hours to collect a water sample.
4. **Motor Grader # 403** The following canals were sloped, and roads graded;
    a. Finished sloping Farmers Canal.
    b. Started sloping Stine Canal working north.
5. **Backhoe # 402** The following jobs were completed this month;
    a. Cleaned 15 Ditch by trucking yard north of Pacheco.
    b. Repair bank due to wash-in on the Central Canal between Union and White Ln.
    c. Haul dirt to the 13-Ditch Return.
6. **Backhoe # 404** The following jobs were completed this month;
    a. Dredge the head of the Canfield Ditch.
    b. Dug up and recompacted wall of weir #3-7-9 on the Drain.
    c. Assisted in muck-out of sediment in the BV canal north of Panama Lane.

7. **Backhoe # 408** The following jobs were completed this month;
    a. Muck out concrete area and in front of gates on the Eastside Canal at DiGeorgio.
    b. Repair bank on the 13 Return Ditch.
    c. Muck out BV canal north of Panama Lane.
8. **Weed Spraying.** The following canals were sprayed during the month;
    a. Spraying the Eastside Canal working north.
    b. Sprayed the Central Canal.
    c. Spraying the bottom of the Stine Canal.
9. **Aquatic Treatments.** Treatments including surface spraying for algae mats and injection treatments for control of algae or vascular aquatic weeds;
    a. Drip treatment on the Kern Island at 10th Street with Teton for Elodea, Horn weed and algae.
    b. Surface sprayed the 20' with Teton for Milfoil, Elodia and algae.
10. **Rodent Control**
    a. Filled bait stations throughout the District.
11. **Trash Removal.**
    a. Cleaned trash racks throughout District canals.
    b. Removed trash left behind from homeless encampments.
12. **Fence Repairs.** Fences and Gates were repaired at the following locations;
    a. Kern Island Canal – at Wilson Rd, Hosking, Calcutta, Southgate and Ming Ave.
    b. Central Canal – at Union Ave, Wilson Rd and Ming Ave.
    c. Stine Canal – at Ash Rd. (rehang gate), Chester Ln, Summertree Ln and Apple Blossom Court.
    d. Farmers Canal- at Seasons Dr. and Pacheco Rd.
13. **Safety Meetings.** Weekly tailgate safety topics were;
    a. The Importance Of Behavior Based Safety- (BBS) observation is a proactive process where workers and managers systematically watch, record, and discuss daily work actions to reinforce safe habits and fix at-risk behaviors before accidents happen.
    b. Severity And Frequency- Using this method enables an individual to compare a less severe but more frequent outcome to a severe but less frequent outcome to decide where to place the most time, energy, resources in mitigating hazards to prevent incidents.
    c. SIMS (Safety In Motion) and Proper Lifting Techniques- Safety first, work smart, warm up, low back rotation stretch, hamstring & Achilles stretch. Plan ahead, check your pathway, ergonomic equipment, help when needed, wear proper PPE
    d. Responsibilities For Contractors In (PSM) Process Safety Management Facilities- Standard duties on both parties to ensure that contractor employees are informed, trained, and protected.

e. Working As A Team- Collaborating toward a shared goal through clear communication, defined roles, mutual accountability, and open problem-solving, all of which improve productivity and workplace satisfaction.

14. **Water Banking Activities.** The following jobs were completed during the month;
    a. No mowing or spraying was done this month.

Project No.	Tract	Developer/Owner	Facility	Location	Engineer/Contractor	Status	Project Description
1	7405	Balfanz	Central Branch	North of Panama Lane	Porter & Associates, Inc.	A	Road widening; fencing
2	6880	Lennar	Branch II Canal	West of Gosford Road	McIntosh & Associates	A	Swale and storm drain inlet boxes remain.
3	6880	Lennar	Stine Canal	West of Gosford Road	McIntosh & Associates	A	CUA, Easement, one road crossing, block wall
4	N/A	Cal Water	Multiple	Multiple	Provost & Pritchard	A	Fluidizaiton project
5	N/A	Caltrans	Multiple	Taft Highway	Griffith Company	A	Culvert extensions of multiple District canals along Taft Highway.
6	N/A	City of Bakersfield	Stillson Ditch	Sierra Madre Ave	QK	P	Proposed Park
7	N/A	Joanna Navarro	Farmers Canal	East of Gosford Rd, South of Lindsa	TBD	P	Re-align Farmers Canal
8	N/A	BCSD	Eastside Canal	34th Street	Porter & Associates, Inc.	P	Fencing/block wall along western right-of-way on Eastside Canal.
9	N/A	Caballero	Eastside Canal	South of Panama Ln	-	P	Install bridge crossing on Eastside Canal
10	N/A	City of Bakersfield	Carrier Canal	North of Four Weirs	Meyer Civil Engineering, In	P	Weir repalcement
11	N/A	East Niles	Eastside Canal	Shirley Lane	AECOM	P	Install discharge into canal.
12	N/A	Bakersfield Play Center	Eastside Canal	Kentucky Street	TBD	P	Install block wall
13	N/A	Five Rivers Investment	Stine Canal	SE Corner of Panma Ln and Gosford		P	Comercial project
14	N/A	KDWD	Kern Island Canal	North of Hwy 178	TBD	P	Replace/modify trash screen.
15	N/A	KDWD	Kern Island Canal	South of Berkshire	TBD	P	Replace weir 03-00-601 steel.
16	N/A	KDWD	Stine Canal	City Corp Yard	TBD	P	Modify trash screen.
17	N/A	FBT Trucking	15 Ditch	North of Pacheco	Zeiders Consulting	P	Access agreement; canal crossing; pipeline
18	N/A	Grow Schools	East Branch Canal	Casa Loma	Zeiders Consulting/Swanson	P	Future School site at end of Casa Loma
19	N/A	HP LLC	Multiple	Multiple	HP LLC	P	Fiber line crossing, two locations.
20	N/A	KDWD	Old River Basins	Old River Basins	Zeiders Consulting	P	New recovery well.
21	N/A	Panama BVUSD	Randall Ditch	East of Stine Road	Michael Dhaneens Arch.	P	Proposed development within canal right-of-way
22	N/A	PG&E	Kern Island Canal	34th Street	PG&E	P	Install underground electric power lines.
23	N/A	PG&E	Central Branch	Ming Avenue	PG&E	P	Waiting on plans.
24	N/A	PG&E	Kern Island Canal	Belle Terrace	PG&E	P	Install gas pipeline underneath canal.
25	N/A	PG&E	Farmers Canal	Old River Road	PG&E	P	Plans reviewed. Waiting on insurance and permit fee.
26	6410	S&S Homes	Burnes Ditch	North of Taft Hwy	McIntosh & Associates	P	Taft Highway culvert extension and new culvert at future City street.
27	N/A	Unknown	Kern Island Canal	22nd Street	QK	P	Storm drain discharge. Waiting on plans.
28	N/A	Caltrans	Multiple	Bear Mt. Blvd	Caltrans	C	Repaving
29	N/A	KDWD	Eastside Canal	Surge Pond	Cross Land Leveling	C	Grading and inlet structures.
30	N/A	KB Engineering	Central Branch	P Street		C	Permit Issued
31	N/A	Crimson	20-ft	Intersection of Smith Judd & 20-ft	Anacapa	C	Permit Complete.
32	N/A	Ripple Fiber	15 Ditch	Stine Road	Ridgeline Telecom	C	Install fiber crossing.
33	N/A	Kern Energy	Eastside Canal	South of Panama Ln		C	Removal of oil line(s)
34	N/A	PG&E	Central Branch	Panama Lane	PG&E	C	Enroachment Permit Granted
35	N/A	Samco	Branch One Canal	Wible and Harris	Landmark	C	CUA, Plan review
36	N/A	KDWD	Sunset Basins	Sunset Basins	Zeiders Consulting	C	Pump installation/testing.
37	N/A	Crimson	Farmers Canal	Ashe Road	Anacapa	C	Project Complete
38	N/A	City of Bakersfield	Hersfhield Pipeline	North of McKee		C	Trafic light relocation, rasing of manhole, paving
39	N/A	KDWD	Eatside Canal	North of Di Giorgio	UCI (concrete)	C	Install traveling water screens and line portion of canal.
40	N/A	Zarch	Central Branch	Adobe Road	Landmark Irrigation	C	Connect to new turnout
41	7136	Deertrail/D.R. Horton	Stine Canal	North of McCutchen	McIntosh & Associates	C	Canal realignment.
42	N/A	Pilot Truck Stop	Branch One Canal	Taft Highway	LAV//Pinnacle	C	Canal realignment and pipeline.
43	N/A	MPS Construction Mgm	Kern Island Canal	South of Hosking Ave	Dewalt	C	Southerly box culvert extension.
44	7136	Deertrail/D.R. Horton	Stine Canal	North of McCutchen	CVPE	C	Install fiber crossing.

A-Active, in Construction
P - Pending
C - Complete

To: Kern Delta Water District Board of Directors

From: Chris Bellue

Date: November 17, 2026

Re: District Projects

DISCUSSION:

District Shop Improvements:

Project Description - This project involves replacing the roof over the shop and enclosing the back bay, which will be repurposed as a welding and fabrication area. Other improvements include demo of the old slab and apron in the back bay area, installation of new slab in the back bay and apron area, electrical service extensions, new exhaust fans, and new cooler ducts. The District contracted with Skarphol Frank Associates to design the project, collect proposals, and manage construction. The Open-Market Procedure was used to solicit proposals for the project. Quotes were collected in December of 2025, and the District selected the low quote from Dobitz Construction. The District entered into an agreement with Dobitz Construction, Agreement No. 2025-09. Staff obtained the building permit in June 2026. A change order was submitted by the contractor before the project began because of increased costs for metal and a change in the prevailing wage rate. The change order was not approved, and Staff were advised by the Board to re-quote the project. The architect received quotes from Piuzer Construction, Dobitz Construction and Black Hall Construction on July 21st, 2026. At the August 18, 2026 Board Meeting, staff were advised by the Board to accept the low quote and award the contract to Black Hall Construction. The fully executed contract (Agreement No. 2026-02) and insurance requirements from Black Hall Construction were received on September 4, 2026. A schedule was received from Black Hall on September 28, 2026.

Project Status – The project began October 5, 2026 and is expected to be completed in December 2026.

Well repairs:

Project Description - In October of 2024 Agilitech was hired by the District to perform preventative maintenance on 20 District wells to check termination connections within the panel and at the well heads and to run each well for approximately 6 hours. Staff exercise the wells every year to make

sure electrical components, lubrication and the well perforations are working properly. The following four wells were found to have various issues that prevented them from running.

FR-1 is an old grower well that came with the Stonefield Basins property in 2010. The District has never operated this well and the oiler assembly is missing. It is unknown if this well works. No work was done on this well. Staff will seek out proposals to trouble shoot the well and see if it is worth investing in repairs.

ST-1 is also an old grower well that was acquired when the District purchased the Old River Basin properties in 2022. District staff installed a discharge pipe from this well into the Stine Canal and operated it briefly in 2022 with no problem. In 2024 rotation couldn't be established by District staff. In the summer of 2026, Bakersfield Well and Pump repaired the well by moving the column and down and establishing rotation. This well is currently operation and available.

KI-8 was found to have a faulty soft starter in the well panel. BWP replaced the soft starter in 2026, and the well is currently operational.

KB-3 had a fault within the circuitry of VFD. BWP and Yaskawa were able to replace a faulty circuit board and get this well operation.

Project Status – KI-8, KB-3 and ST-1 were exercised for several hours and are currently operational. FR-1 will require repairs just to turn it on. Staff is seeking proposals for this work.

Well Abandonments:

Project Description – When the District acquired the Branch 1 Basins and the Marlett parcel at the Kern Island Basins, each property had a well with no motor. The Branch 1 well is an old ag well that was converted to a domestic well and at some point left idle. The area around the well head is settling indicating the well column may be collapsing. Due to its age and condition this well is a good candidate for abandonment. The Marlett well can be converted into a monitoring well and will not be considered for abandonment at this time. Request for quotes were sent to BWP and SA Camp on September 4, 2026 for the abandonment of the Branch 1 well. Camp quoted $12,935 and BWP quoted $21,600 for the well abandonment project. Staff brought the quotes to the Operations and Projects committee on October 6, 2026 and on October 20, 2026, the full Board recommended we select Camp for the abandonment.

Project Status – An agreement with Camp is pending after which the abandonment work will be scheduled. Work is estimated to be done in 2026.

Traveling Water Screens in Eastside Canal:

Project Description – Staff worked with International Water Screens (IWS) to design water screens suitable for the Eastside Canal at DiGiorgio Road. Staff approved a design concept and IWS is now under contract with the District to build and install the screens. Because the Eastside Canal was unlined in the desired location, and the bank access was narrow, a structural-concrete section with vertical retaining walls was designed by District staff to support the screens and allow passage on

either bank. Construction of the concrete portion of the project was completed in February 2026. The canal ran for the 2026 season with the new concrete section in place. Staff confirmed that IWS completed fabrication of the screens, catwalk, conveyor, elevator, service panel, and bypass slides on August 14, 2026. Staff met with PG&E on site on April 23, 2026 to discuss the new meter location and layout of the conduit run and panel location for the new service. The District entered into an agreement with PG&E on July 15, 2026 for new power service. The District contracted with Agilitech to install new electrical conduit and meter panel as per PG&E requirements. A pre-construction meeting with PG&E and Agilitech was held onsite on August 10, 2026. Agilitech completed trenching approximately 100-ft from the power pole to the panel/meter location and installed conduit and passed the PG&E inspection for that phase. On August 21, 2026 Agilitech passed the mandrel and meter inspections.

Project Status - IWS is scheduled to begin installation of the screens on November 16, 2026 and will need approximately 2-weeks to complete the work. PG&E is scheduled to extend power service from the pole to the meter panel on November 24 2026. Agilitech will return to the site to extend the power from the meter panel to the screens panel in early December. District staff has already removed the old screens from the DiGiorgio weir. If weather conditions are favorable the project should be completed in mid-December 2026.

Head of Stine Canal Screen Rebuild:

Project Description – The trash screen at the head of the Stine Canal is within the City Corp and has historically been accessed and cleaned from the Santa Fe rail yard. The screen does not have a catwalk which presents a safety hazard when cleaning. Access to the rail yard has been pushed farther away over the years because of added security measures installed by Santa Fe. The City installed an Amarok electrified fence around the Corp Yard making access even more difficult form the rail yard. The City Water Resources Department contracted with Delaney Manufacturing to design and build a screen and catwalk system that makes it possible to access and clean from the City Corp Yard. District staff designed a structural concrete support slab to support the screen and to be anchored into to the existing concrete structure. Delaney will use a concrete subcontractor to install the slab and anchor points per District plans.

Project Status – The concrete support slab was poured on August 26, 2026 under the supervision of District Engineer Bellue The catwalks and new trash screen were installed in September 2026. This project is complete.

Eastside Canal Surge Pond:

Project Description – The District purchased a 14-acre parcel of land on the Eastside Canal at the Edison Road weir. The almond orchard that was on the land was removed along with the underground irrigation pipes in late 2025. A surge pond will be constructed on the parcel to control water levels on the upstream and downstream sides of the Edison weir. District staff designed the basin and inlet structures, and the plans were sent to Lonnie A. Cross Land Leveling, Wood Brothers and Mr. Backhoe on May 28, 2026 for quotes. The quotes were presented at the June 16th, 2026 Board meeting and Cross was selected as the low quote for the project. District staff prepared a Dust

Control Plan for the project and contracted with Wiley Hughs and Krazan for surveying and compaction testing. The levee construction phase was completed August 14, 2026 at about the same time the Eastside canal was ending its seasonal run of water. The turnouts and pipelines were completed on October 2, 2026 and finish grading and rip rap installation were completed in late October. District staff will install a Waterman gate on turnout No. 1, and board control on turnout No. 2. This facility will be completely operational by late November 2026.

Project Status – This project is completed.

District Yard Block Wall:

Project Description - The existing fence surrounding the District yard has fallen into a state of disrepair. Staff recommended a new block wall around the yard to better secure District equipment. Staff reached out to Kern Masonry for a quote to demo the existing wall and install approximately 800-feet of new block wall.

Project Status – District staff received a quote from Kern Masonry and is awaiting a quote from Simmons Concrete. Quotes will be presented to the Operation and Projects committee at a future date.

Head of Carrier Canal Weir Rebuild:

Project Description - District staff met with City Water Resources staff on April 23, 2026 to discuss the need for the weir at the head of the Carrier Canal to be rebuilt in the 2027 shutdown period. The City contracted with Dick Meyer to design the new structure.

Project Status – Staff attended a design kickoff meet with the City and Dick Meyer Engineering on September 16, 2026. Various items were discussed, such as bypass capacities, design concepts, contractors and construction windows. Construction is estimated to begin in December 2027.

Tab V

KERN DELTA
WATER DISTRICT

KERN DELTA WATER DISTRICT

November 13, 2026

	11/13/2026		Last Year	
KERN RIVER 3 DAY MEAN INFLOW	254	CFS	262	CFS
KERN RIVER MEAN OUTFLOW	270	CFS	331	CFS
ISABELLA RESERVOIR STORAGE	138,588	ACFT	178,011	ACFT
REQUESTED OUTFLOW	275	CFS	325	CFS

Estimated: (CFS)

KDWD DAILY DIVERTED: (NOVEMBER 13, 2026)	@HEAD	STATE	XCHNG	BANKING
KERN ISLAND	69	0	0	0
EASTSIDE	0	0	0	0
BUENA VISTA -LEVEE	0	0	0	0
STINE	0	0	0	0
OTHER - ID4 & River Channel	0	0	0	0
K.I. / A.E. Exchange Gate	0	0	0	0
STINE / A.E. Exchange Gate	0	0	0	0
EASTSIDE / A.E. Intertie	0	0	0	0
Total CFS	69	0	0	0

Estimated: (Acre Feet)

DIVERTED IN DISTRICT (OCTOBER 2026)	UTILITY	STATE	PURCHASE	BANKING
KERN ISLAND	6,026	0	0	0
EASTSIDE	0	0	0	0
C.O.B. Misc.	0	0	0	0
BUENA VISTA	69	0	0	0
STINE	0	0	0	0
FARMERS	0	0	0	0
SOUTH FORK	0	0	0	0
MONTHLY TOTAL	6,095	0	0	0
YEAR TO OCTOBER 31, 2026	194,680 ACFT	13,188	0	0
Year to October 31, 2026 Utility - State - Banking	207,868 **ACFT**			

ACFT. STORAGE BALANCE AS OF:	10/31/2026		Estimate 11/13/2026		Max Storage
KERN ISLAND	2,242		1,955		2,500
BUENA VISTA	1,013		1,222		1,500
STINE	1,308		1,330		1,500
FARMERS	1,310		1,353		1,500
STATE (25) Carryover	0		0		N/A
STATE (26) Contract	4,378		4,378		N/A
RRBWSD STORAGE	18,805		18,805		N/A
PIONEER PROJECT STORAGE (ODC)	30,976	(100,717)	30,976	(100,717)	N/A
TOTAL ACFT.	60,032		60,019		

K.D.W.D. CLIMATOLOGICAL OBSERVATION:		*ISABELLA CLIMATOLOGICAL OBSERVATION:*
50	MINIMUM TEMPERATURE	42
88	MAXIMUM TEMPERATURE	74
59	PRESENT TEMPERATURE	51
0.00	PRECIPITATION - 24 HR. DAY	0.00
0.12	PRECIPITATION - MONTH	0.02
Seasonal 0.65	YEAR TO DATE PRECIP.	1.22 *Seasonal*

ISABELLA RESEVOIR:

LAKE ELEVATION (FT.)	*2,554.82*	OCTOBER AC. FT. INFLOW	*14,418*
STORAGE ACFT.	*138,588*	OCTOBER AC. FT. OUTFLOW	*22,538*
GROSS STORAGE CAPACITY	*568,075*	ACCUMULATIVE ACFT. INFLOW (25-26)	*14,418*
% OF CAPACITY	*24%*	ACCUMULATIVE ACFT. OUTFLOW	*22,538*
SEASONAL STORAGE CAPACITY	*170,000*	% OF SEASONAL CAPACITY	*82%*

Summary of Utility Water Diverted Year to Date: 10/31/2026

	Uility	*North Kern*	*Other Exchanges*
January	*26,831*	*0*	*0*
February	*10,711*	*2,500*	*0*
March	*13,595*	*2,500*	*0*
April	*18,460*	*0*	*0*
May	*28,295*	*0*	*0*
June	*37,676*	*0*	*0*
July	*33,901*	*0*	*0*
August	*16,649*	*0*	*0*
September	*9,150*	*0*	*0*
October	*6,230*	*0*	*0*
November			
December			
Total	*201,498*	*5,000*	*0*

Summary of Other Water Diverted Year to Date: 10/31/2026

	State	Purchase	Third Party Banking
January	*0*	*0*	*0*
February	*0*	*0*	*0*
March	*98*	*0*	*0*
April	*121*	*0*	*0*
May	*297*	*0*	*0*
June	*4,288*	*0*	*0*
July	*6,373*	*0*	*0*
August	*1,870*	*0*	*0*
September	*141*	*0*	*0*
October	*0*	*0*	*0*
November			
December			
Total	*13,188*	*0*	*0*

Water owed to K.D.W.D as of: 10/31/2026

B.V.W.S.D. 2025 State Carryover*:	***5,992***
2026 State Contract: Table A	***11,475***
2026 Yuba	***99***
Quantities in acft. TOTAL	17,566

Maximum Annual State Carryover Balance: 6,000 acre feet

Summary of Total State Water Used Year to Date: 10/31/2026

	(OWED)	**(USED)**
2025 Contract	***0***	***5,992***
2026 Contract	***4,378***	***7,196***
Total	***4,378***	***13,188***
Net Owed to KDWD TOTAL		17,566

DISTRICT BANKING OPERATIONS

Friday, November 13, 2026

KERN ISLAND PROJECTS		
Branch 1:	-	CFS
Kern Island Met:	-	CFS
Other:	-	CFS
Total:	-	CFS

EASTSIDE PROJECTS		
Digiorgio:	-	CFS
Sunset:	-	CFS*
Other:	-	CFS
Total:	-	CFS

BUENA VISTA PROJECTS		
BV North Basins:	-	CFS
Buena Vista I5:	-	CFS
Other:	-	CFS
Total:	-	CFS

STINE PROJECTS		
Old River:	-	CFS
Bladder & Triangles:	-	CFS
Other:	-	CFS
Total:	-	CFS

FARMERS PROJECTS		
Romero:	-	CFS
Stonefield:	-	CFS
Church:	-	CFS
Other:	-	CFS
Total:	-	CFS

BANKING SUPPLIES		
KDWD Untility:	-	CFS
AEWSD Project:	-	CFS*
Other:	-	CFS
Total In District:	-	CFS

Estimated: (Acre Feet) *DIVERTED FOR BANKING (OCTOBER 2026)*	*UTILITY*	*STATE*	*PURCHASE*	*3RD PARTY BANKING*	*OPERATIONAL RECHARGE*
KERN ISLAND	0	0	0	0	2,594
EASTSIDE	0	0	0	0	0
BUENA VISTA	0	0	0	0	69
STINE	0	0	0	0	0
FARMERS	0	0	0	0	351
OUT OF DISTRICT	0	0	0	0	0
MONTHLY TOTAL	0	0	0	0	3,014
YEAR TO OCTOBER 31, 2026	18,274 *ACFT*	0	0	0	73,575
Year to October 31, 2026 All Supplies	91,849 ***ACFT***				

Summary of Spreading Year to Date: 10/31/2026

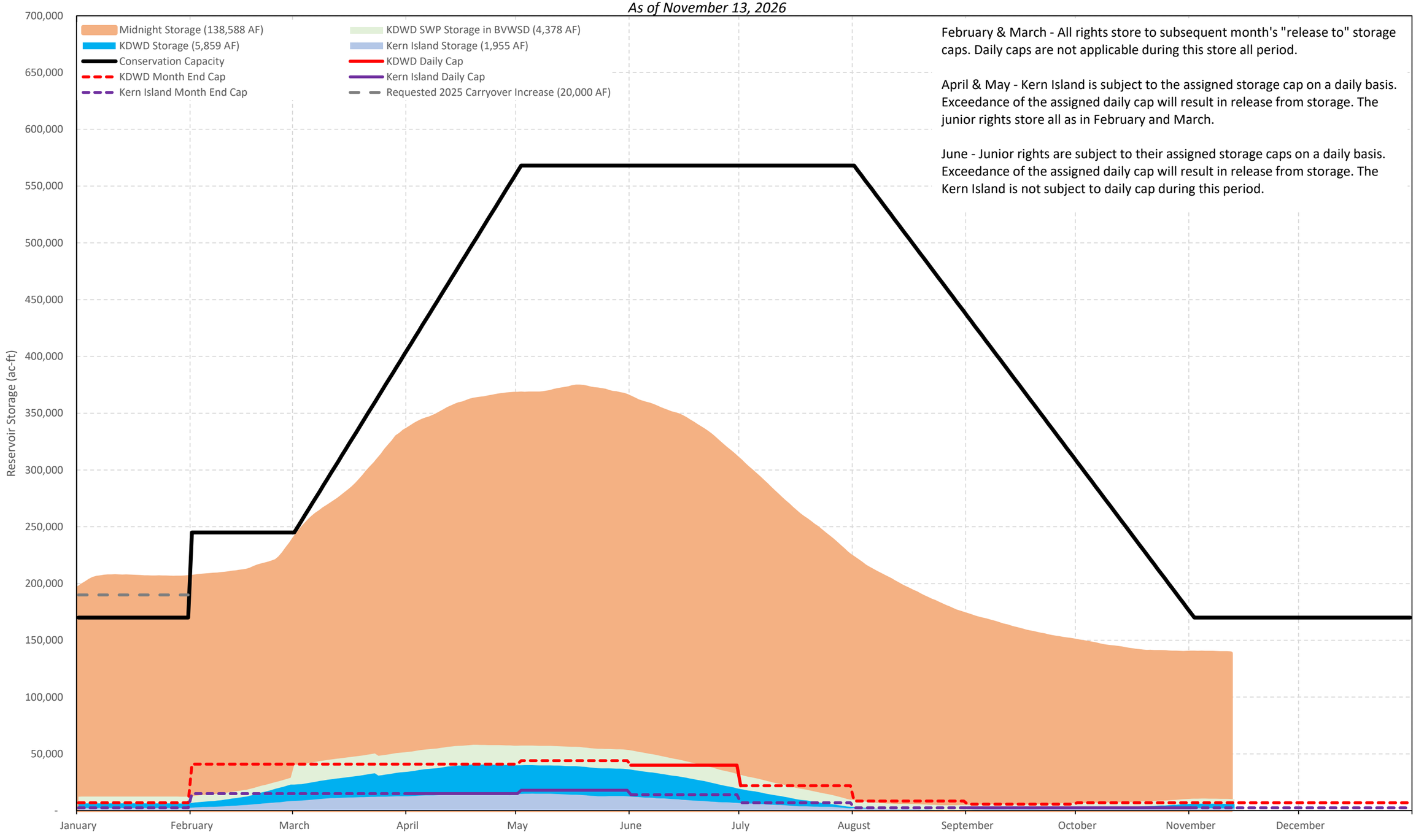
	Uility	*State*	*Purchase*	*3 Pty Bk*	*Op. Re.*
January	*17,467*	*0*	*0*	*0*	*6,663*
February	*721*	*0*	*0*	*0*	*4,875*
March	*86*	*0*	*0*	*0*	*5,454*
April	*0*	*0*	*0*	*0*	*7,271*
May	*0*	*0*	*0*	*0*	*10,536*
June	*0*	*0*	*0*	*0*	*13,091*
July	*0*	*0*	*0*	*0*	*13,711*
August	*0*	*0*	*0*	*0*	*5,696*
September	*0*	*0*	*0*	*0*	*3,264*
October	*0*	*0*	*0*	*0*	*3,014*
November					
December					
Total	*18,274*	*0*	*0*	*0*	*73,575*

Facility Flow Rate Quick Reference

PROJECT	*Fill (CFS)*	*Operational (CFS) Summer*	*Winter*	*Acreage*
Kern Island Met:	60	25	20	175
Branch 1:	18	18	5	75
Digiorgio:	30	15	10	70
Sunset:	TBD	TBD	TBD	140
BV North:	65	55	20	240
Buena Vista I5:	40	25	15	65
Old River:	40	30	TBD	145
Bladder & Triangles:	30	20	10	40
Romero:	45	40	15	170
Stonefield:	25	15	10	80
Church:	4	1	1	5
Total	**357**	**244**	**106**	**1205**

Midnight Lake Isabella Storage and Pool Restrictions

As of November 13, 2026



February & March - All rights store to subsequent month's "release to" storage caps. Daily caps are not applicable during this store all period.

April & May - Kern Island is subject to the assigned storage cap on a daily basis. Exceedance of the assigned daily cap will result in release from storage. The junior rights store all as in February and March.

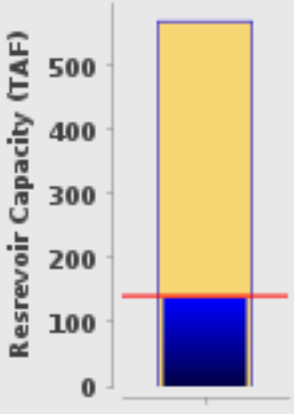
June - Junior rights are subject to their assigned storage caps on a daily basis. Exceedance of the assigned daily cap will result in release from storage. The Kern Island is not subject to daily cap during this period.

CURRENT RESERVOIR CONDITONS



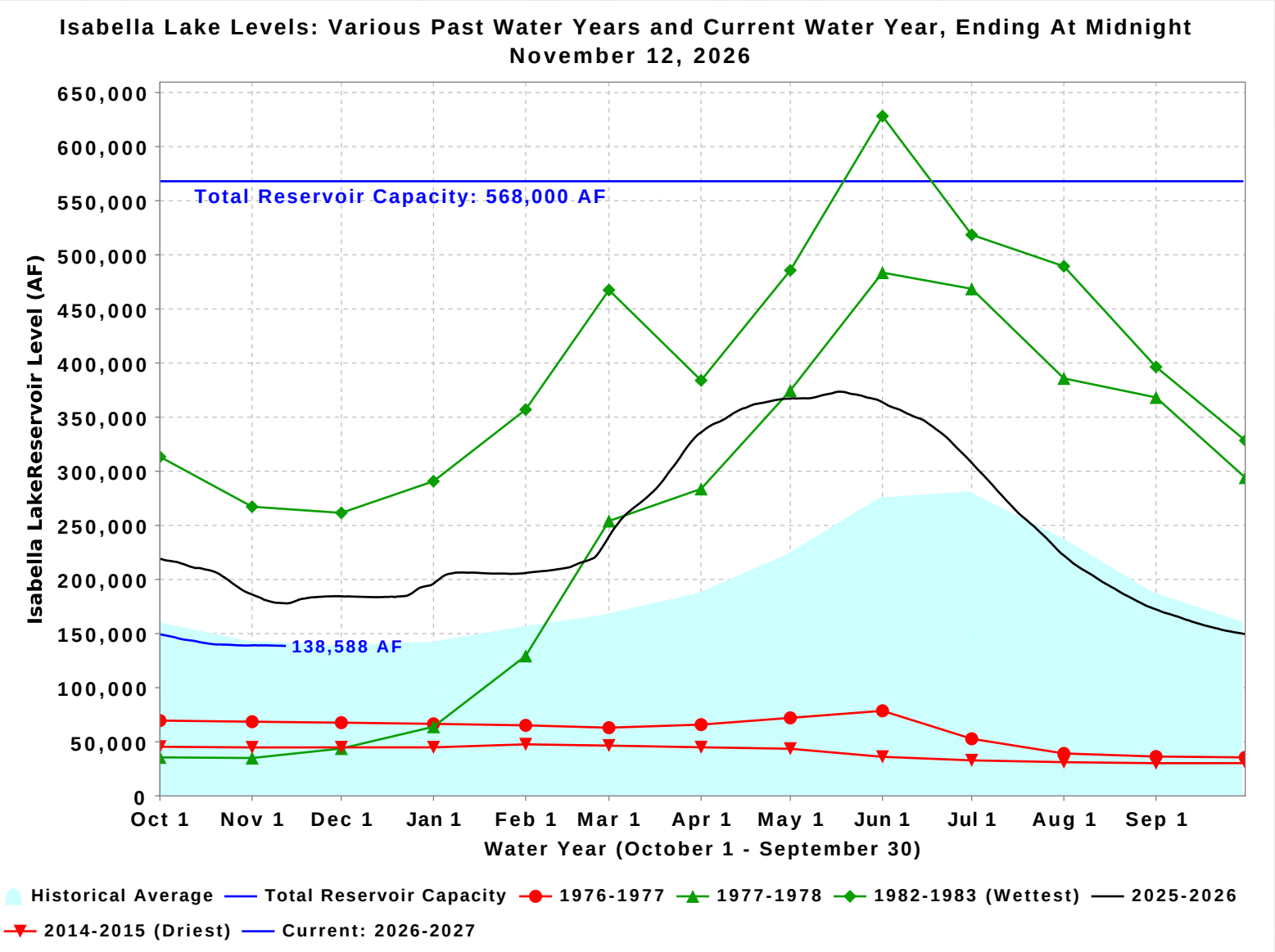
Isabella Lake Conditions

(as of Midnight - November 12, 2026)



Current Level: 138,588 AF

24% (Total Capacity) | 98% (Historical Avg.)



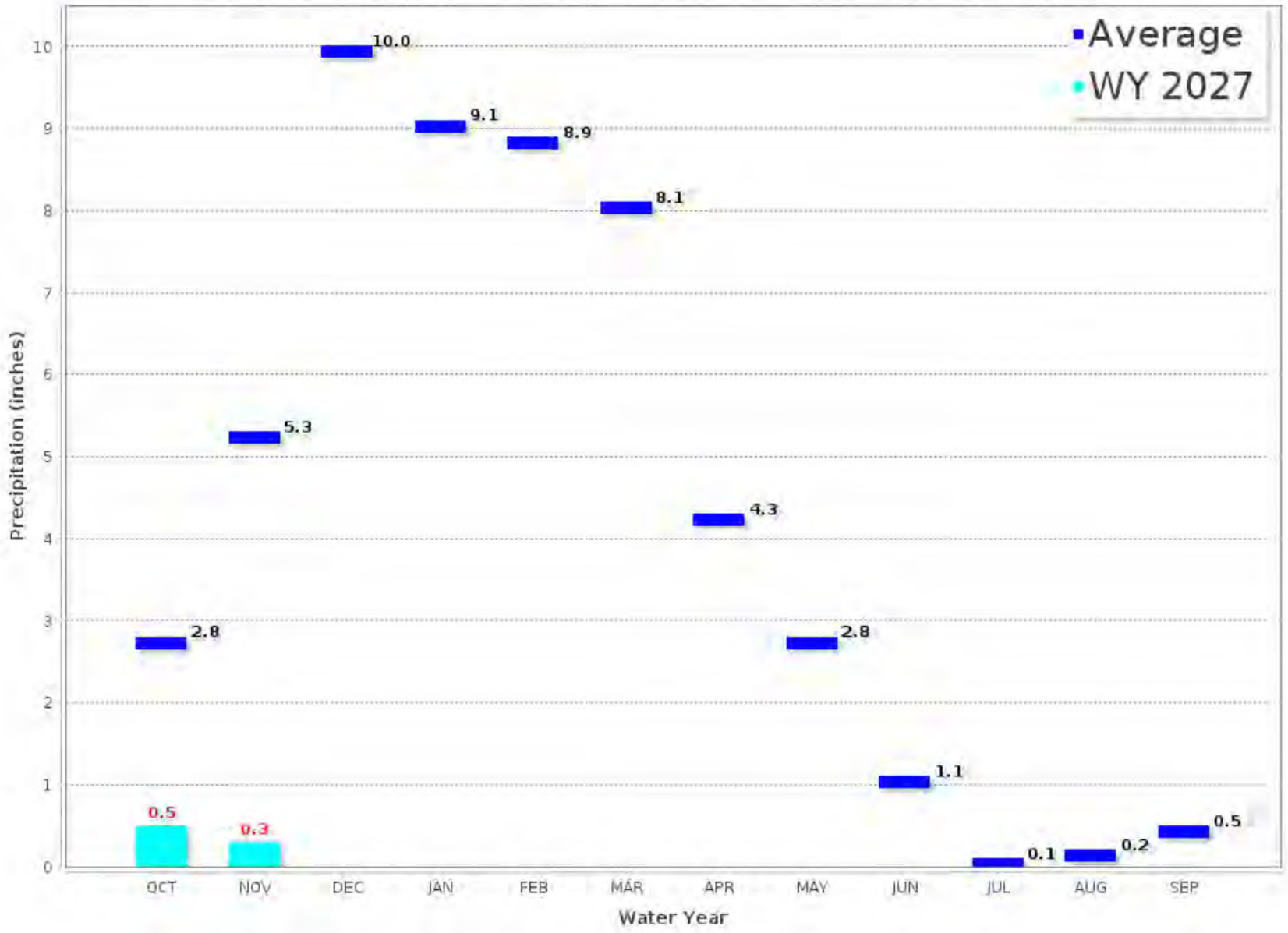
Data Updated 11/13/2026 04:56 PM

Northern Sierra 8-Station

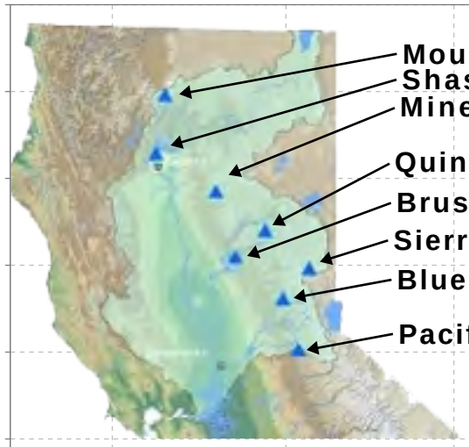
Precipitation Index for Water Year 2027- Updated on November 13, 2026 06:33 PM

Note: Monthly totals may not add up to seasonal total because of rounding

Water Year Monthly totals are calculated based on Daily precipitation data from 12am to 12am PST



Northern Sierra Precipitation: 8-Station Index, November 13, 2026



Percent of Average for this Date: 14%

2016-2017 Daily Precip (wettest) 94.7

1982-1983 Daily Precip (2nd wettest) 88.5

2024 - 2025 Daily Precip 56.6

Average (1991-2020) 51.6

2025 - 2026 Daily Precip

2020-2021 Daily Precip (3rd driest) 24.0

1923-1924 (driest) 17.1

1976-1977 (2nd driest) 19.0

Current: 0.7

Cumulative Daily/Monthly Precipitation (inches)

Total Water Year Precipitation

0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100

Oct 1 Nov 1 Dec 1 Jan 1 Feb 1 Mar 1 Apr 1 May 1 Jun 1 Jul 1 Aug 1 Sep 1 Oct 1

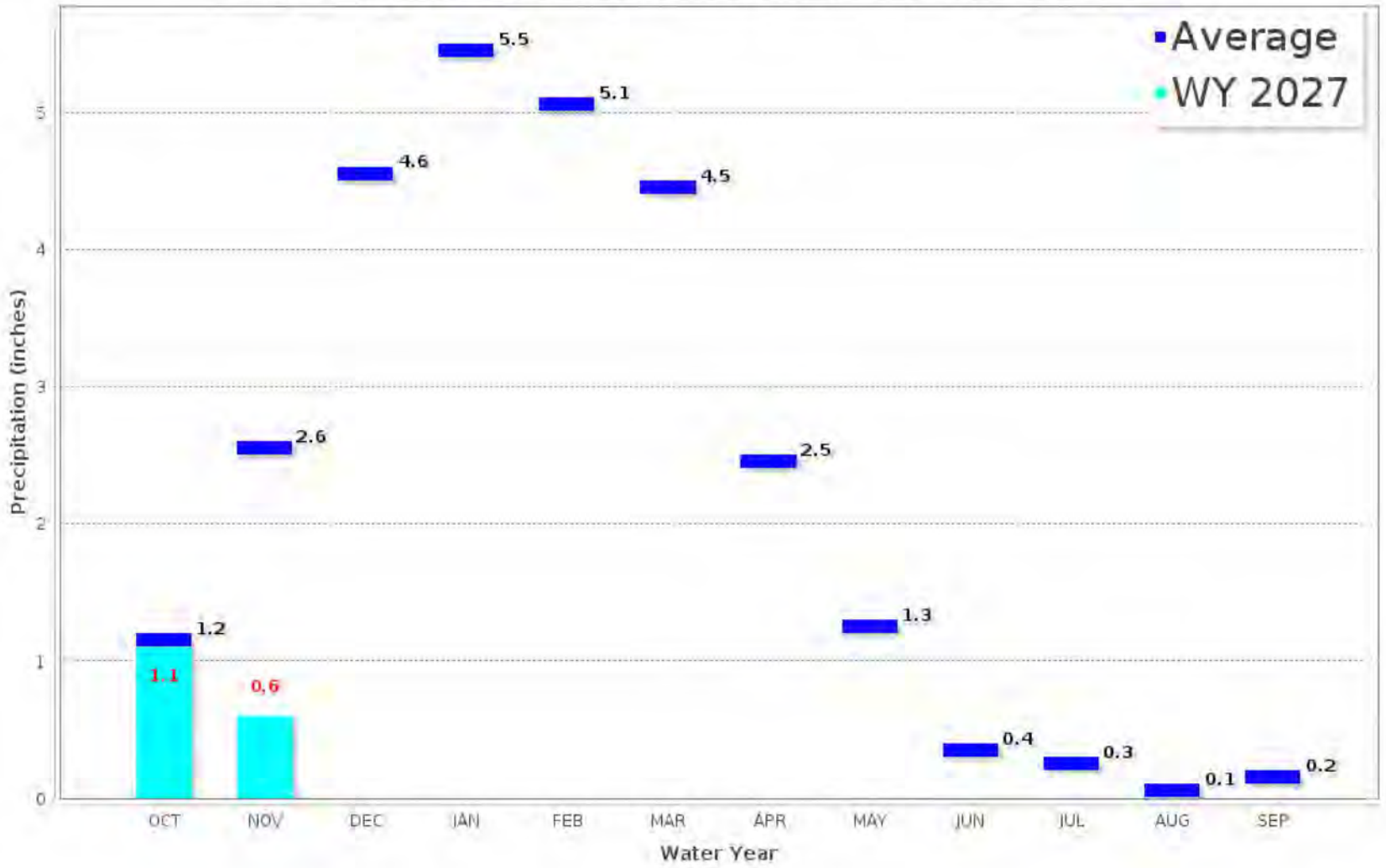
Water Year (October 1 - September 30)

Tulare Basin 6-Station

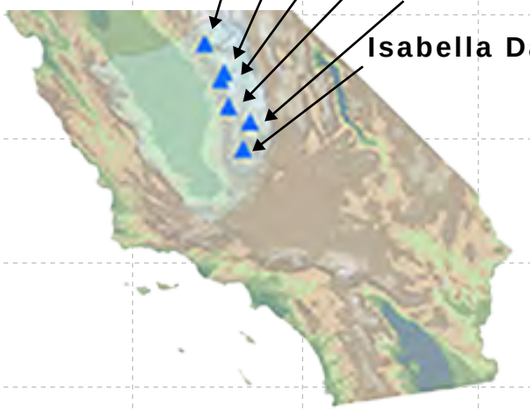
Precipitation Index for Water Year 2027 - Updated on November 13, 2026 06:33 PM

Note: Monthly totals may not add up to seasonal total because of rounding

Water Year Monthly totals are calculated based on Daily precipitation data from 12am to 12am PST



Tulare Basin Precipitation: 6-Station Index, November 13, 2026



Percent of Average for this Date: 75%

1968-1969 Daily Precip (wettest) 56.3
2022-2023 Daily Precip 56.2
1982-1983 Daly Precip (2nd wettest) 54.4
Average (1991-2020) 28.3
2024-2025 Daily Precip 24.2
2023-2024 Daily Precip 22.7
2021-2022 Daily Precip 17.0
1976-1977 Daily Precip (2nd driest) 10.9
2020-2021 Daily Precip (driest) 9.9
Current: 1.7

Cumulative Daily/Monthly Precipitation (inches)

0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

Total Water Year Precipitation

Oct 1 Nov 1 Dec 1 Jan 1 Feb 1 Mar 1 Apr 1 May 1 Jun 1 Jul 1 Aug 1 Sep 1 Oct 1

Water Year (October 1 - September 30)



STATEWIDE SNOW WATER CONTENT

CURRENT REGIONAL SNOWPACK FROM AUTOMATED SNOW SENSORS

% of April 1 Average / % of Normal for This Date



NORTH	
Data as of November 12, 2026	
Number of Stations Reporting	34
Average snow water equivalent (Inches)	0.2
Percent of April 1 Average (%)	1
Percent of normal for this date (%)	31

CENTRAL	
Data as of November 12, 2026	
Number of Stations Reporting	55
Average snow water equivalent (Inches)	0.3
Percent of April 1 Average (%)	1
Percent of normal for this date (%)	24

SOUTH	
Data as of November 12, 2026	
Number of Stations Reporting	25
Average snow water equivalent (Inches)	0.1
Percent of April 1 Average (%)	0
Percent of normal for this date (%)	0

STATE	
Data as of November 12, 2026	
Number of Stations Reporting	114
Average snow water equivalent (Inches)	0.2
Percent of April 1 Average (%)	1
Percent of normal for this date (%)	26

Statewide Average: 1% / 26%

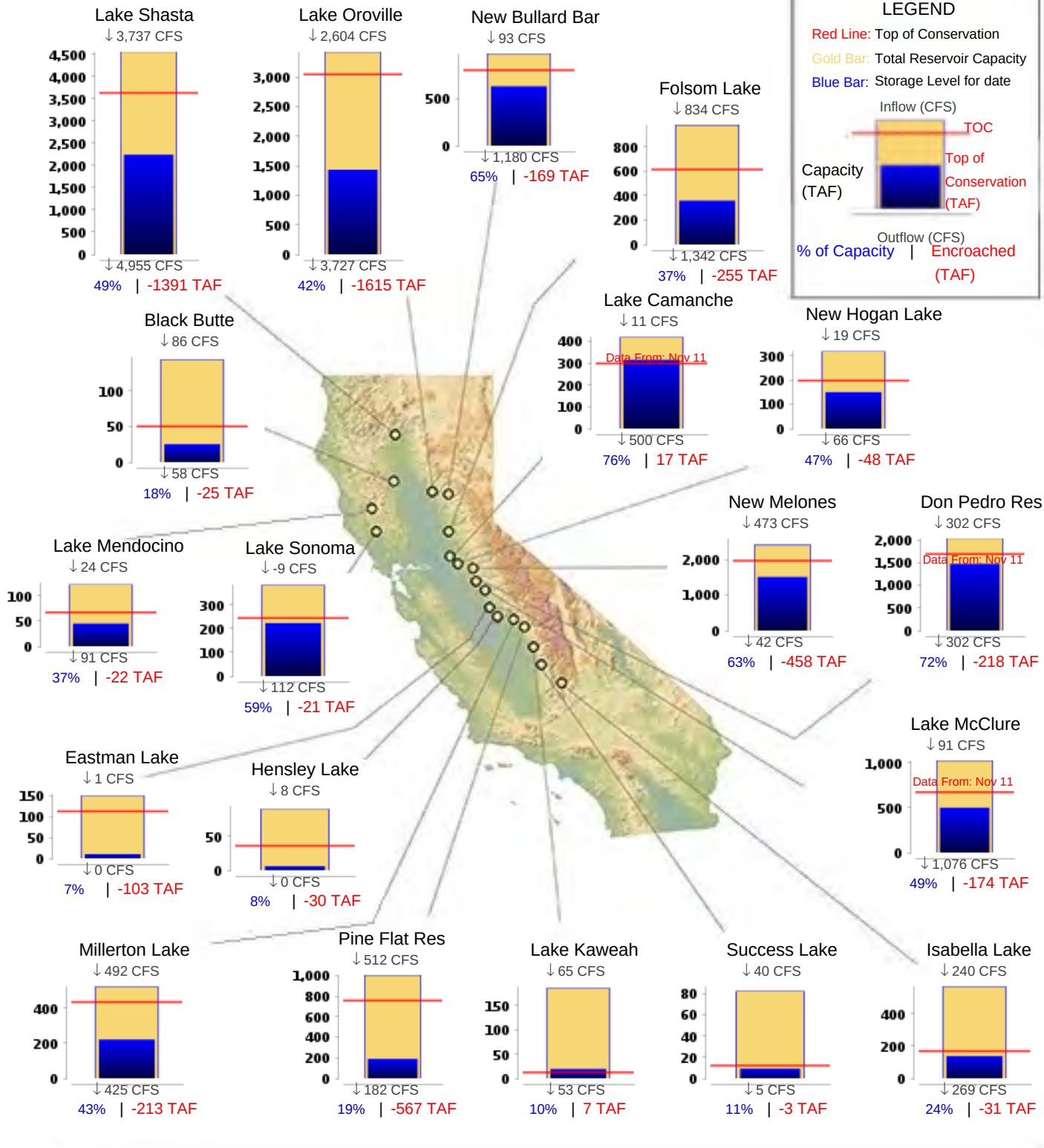
Data as of November 12, 2026



TOP OF CONSERVATION CONDITIONS (TOC)

Midnight - November 12, 2026

CENTRAL VALLEY RUSSIAN RIVER FLOOD CONTROL RESERVOIRS



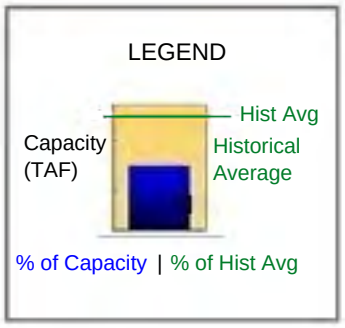
Updated 11/13/2026 04:48 PM

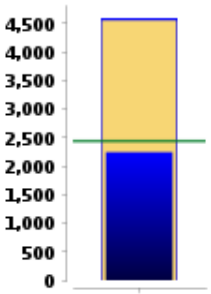


CALIFORNIA MAJOR WATER SUPPLY RESERVOIRS

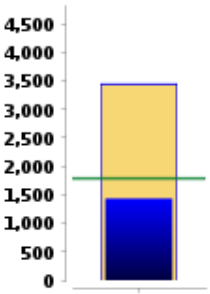
Midnight - November 12, 2026

CURRENT CONDITIONS

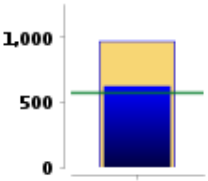




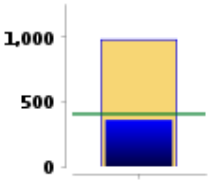
49% | 92%
Shasta



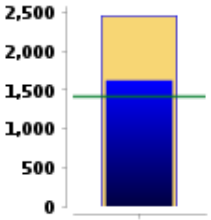
42% | 80%
Oroville



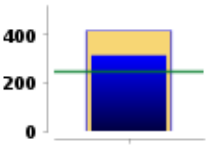
65% | 109%
New Bullards Bar



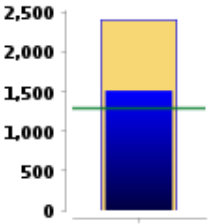
37% | 89%
Folsom



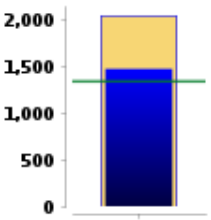
66% | 115%
Trinity



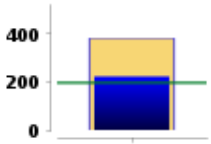
76% | 127%
Camanche



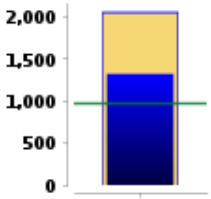
63% | 117%
New Melones



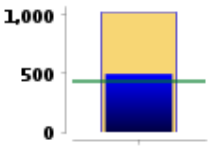
72% | 110%
Don Pedro



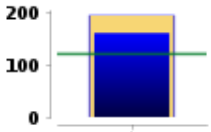
59% | 113%
Sonoma



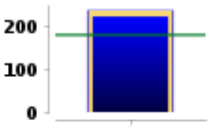
65% | 136%
San Luis



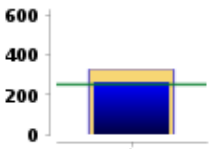
49% | 115%
McClure



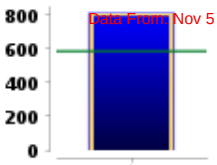
83% | 133%
Cachuma



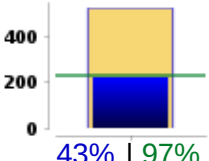
94% | 124%
Casitas



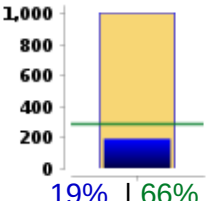
81% | 105%
Castaic



99% | 136%
Diamond Valley

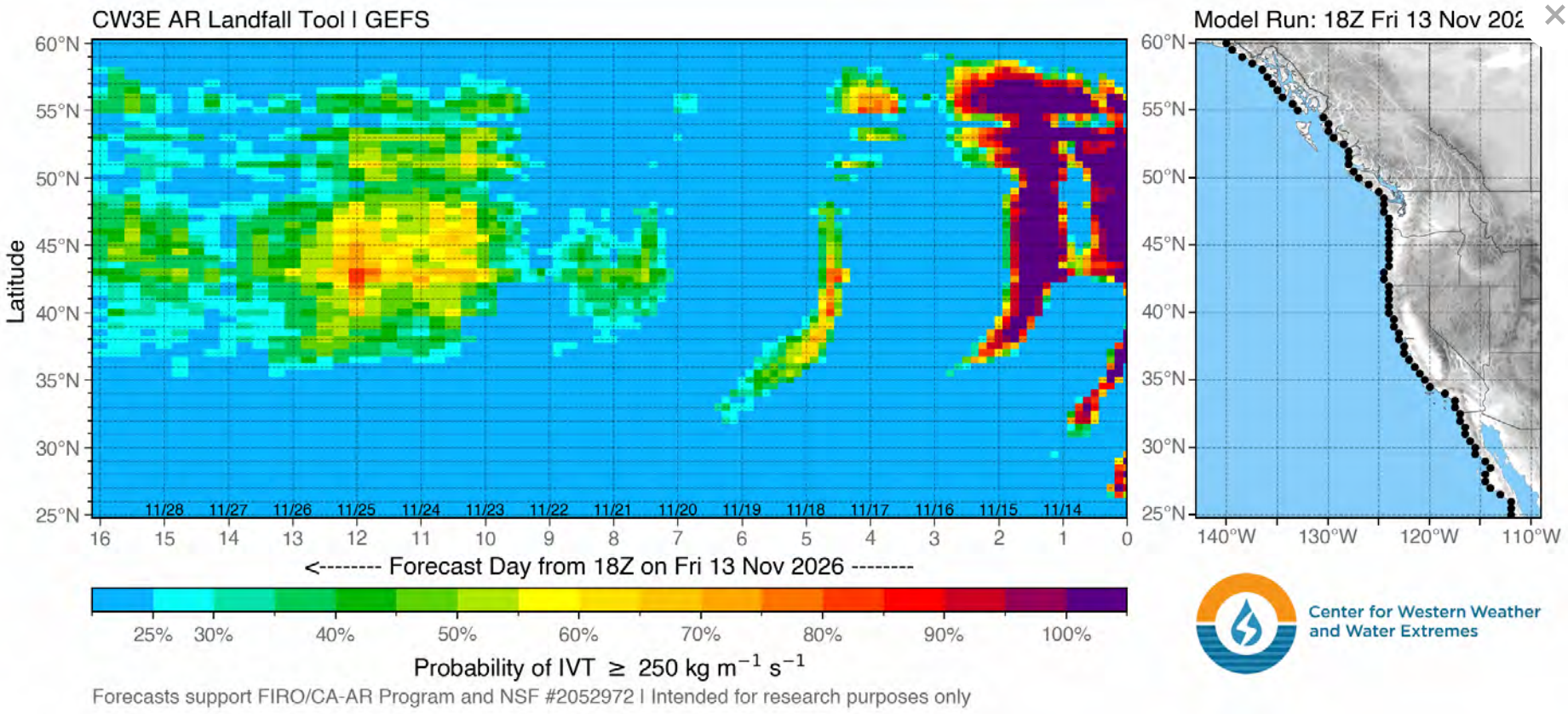


43% | 97%
Millerton

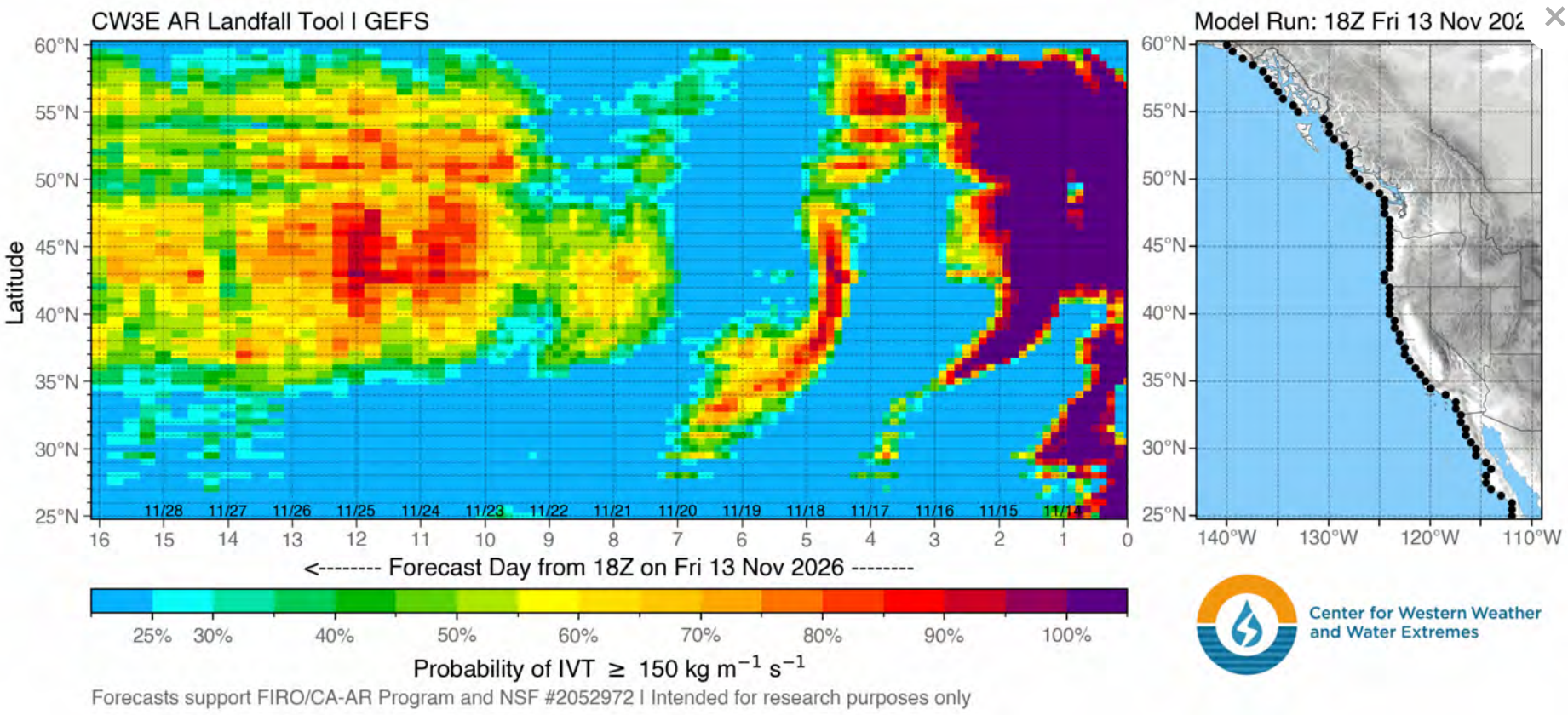


19% | 66%
Pine Flat

Updated 11/13/2026 04:48 PM



Probability of IVT greater than 250 kg $m^{-1}s^{-1}$ over the next 16 days at each point in the map derived from the GEFS.



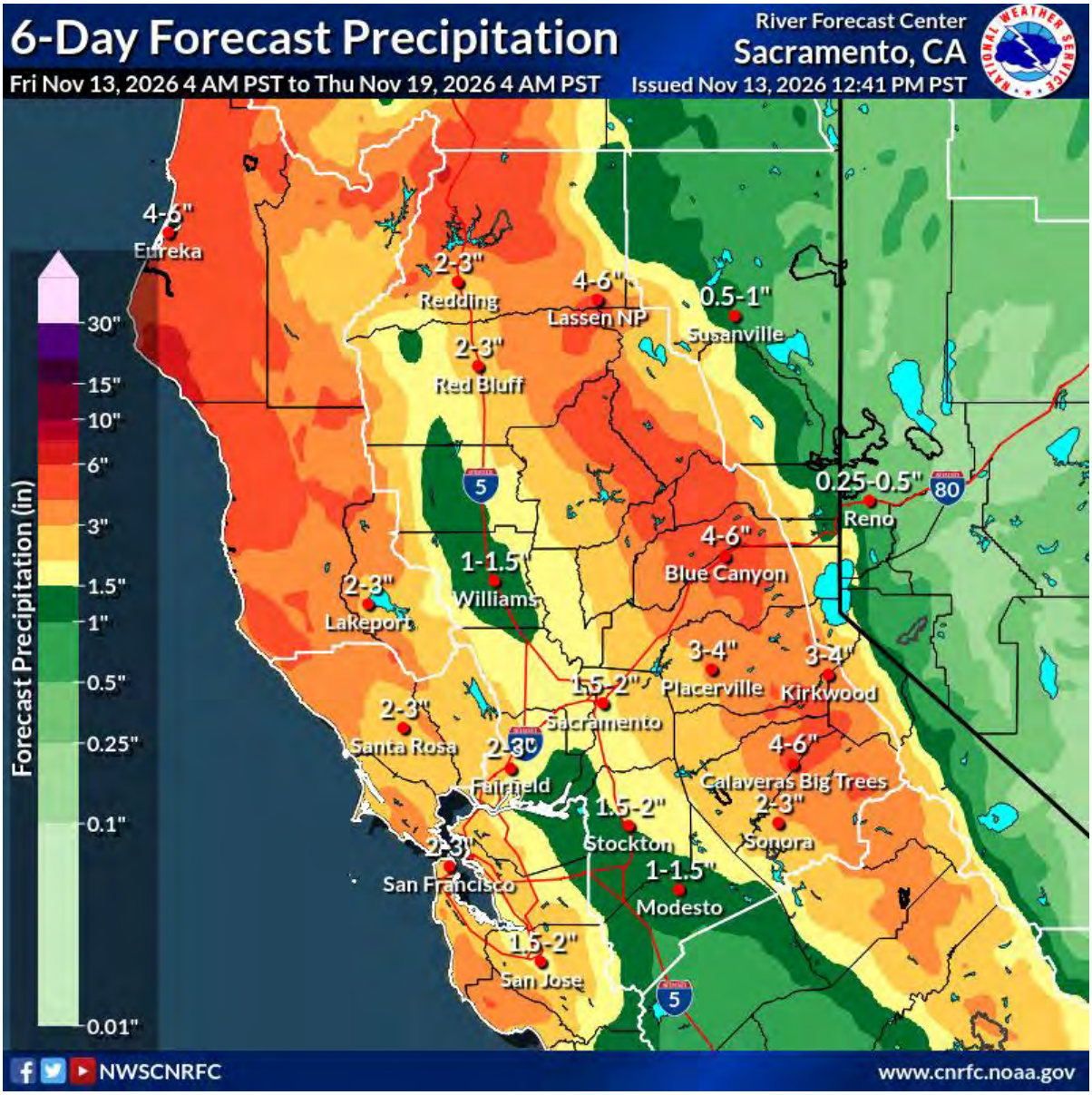
Probability of IVT greater than 150 kg $m^{-1}s^{-1}$ over the next 16 days at each point in the map derived from the GEFS.

WFO Sacramento Precipitation Forecast

Location: - WFO Sacramento QPF

Time Period: - Days 1 to 6

Map Legend | Get Map



Time Period QPF Image Matrix

Days 1 - 3				Days 4 - 6				**Days 1 - 6**			
Day 1				Day 2				Day 3			
4A - 10A	10A - 4P	4P - 10P	10P - 4A	4A - 10A	10A - 4P	4P - 10P	10P - 4A	4A - 10A	10A - 4P	4P - 10P	10P - 4A
Day 4				Day 5				Day 6			

Location QPF Image Matrix

CNRFC Area	Medford	Eureka	**Sacramento**	SF Bay Area	San Joaquin
Los Angeles	San Diego	Reno	Elko	Las Vegas	Phoenix

KERN RIVER WATERMASTER

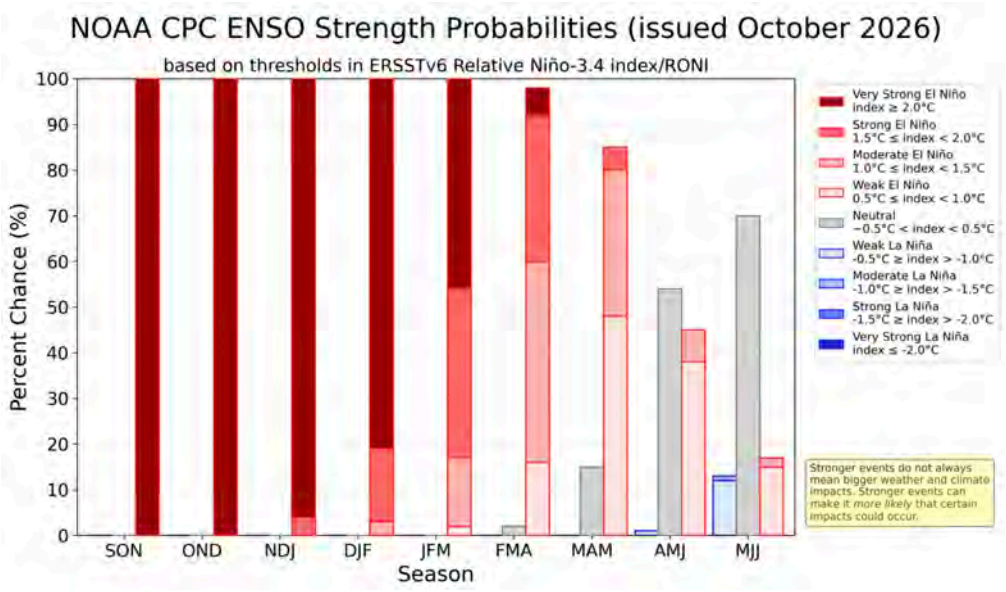
achianello@krwatermaster.org

To: Kern River Interests November 10, 2026

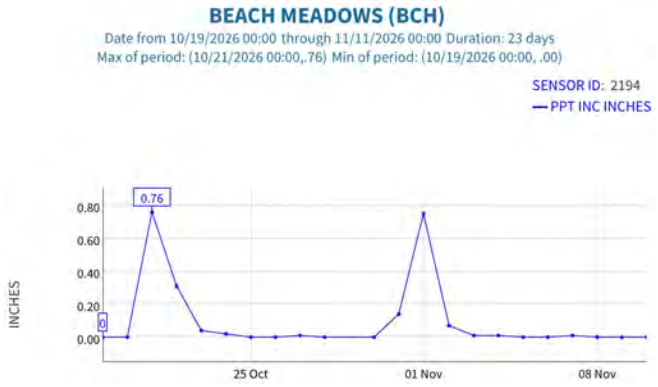
From: Art Chianello, Kern River Watermaster

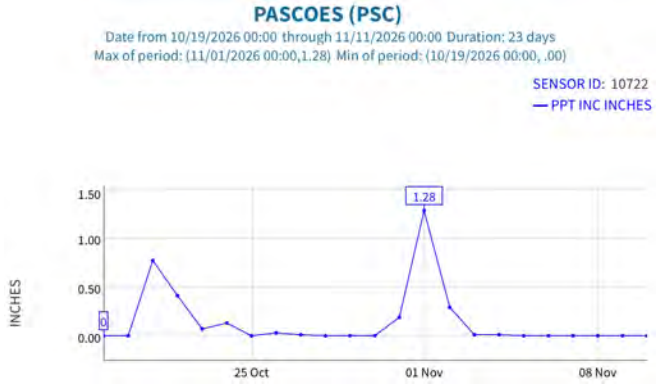
RE: Report of Recent Activities

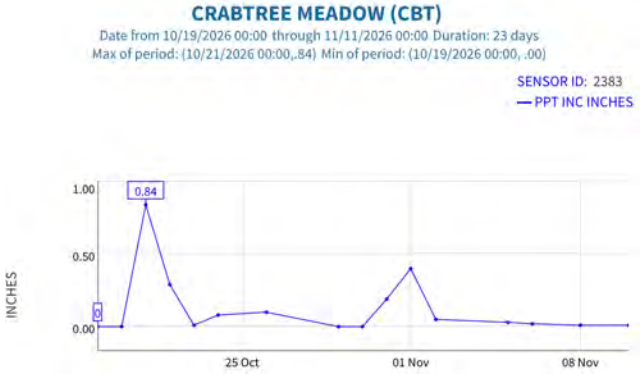
El Niño Forecast: NOAA's Climate Prediction Center's El Niño Southern Oscillation strength probabilities are shown below.



Basin Precipitation: The October and November to date basin precipitation events are shown below as measured at Beach Meadows (7,650'), Pascoes (9,150'), and Crabtree Meadow (10,700').

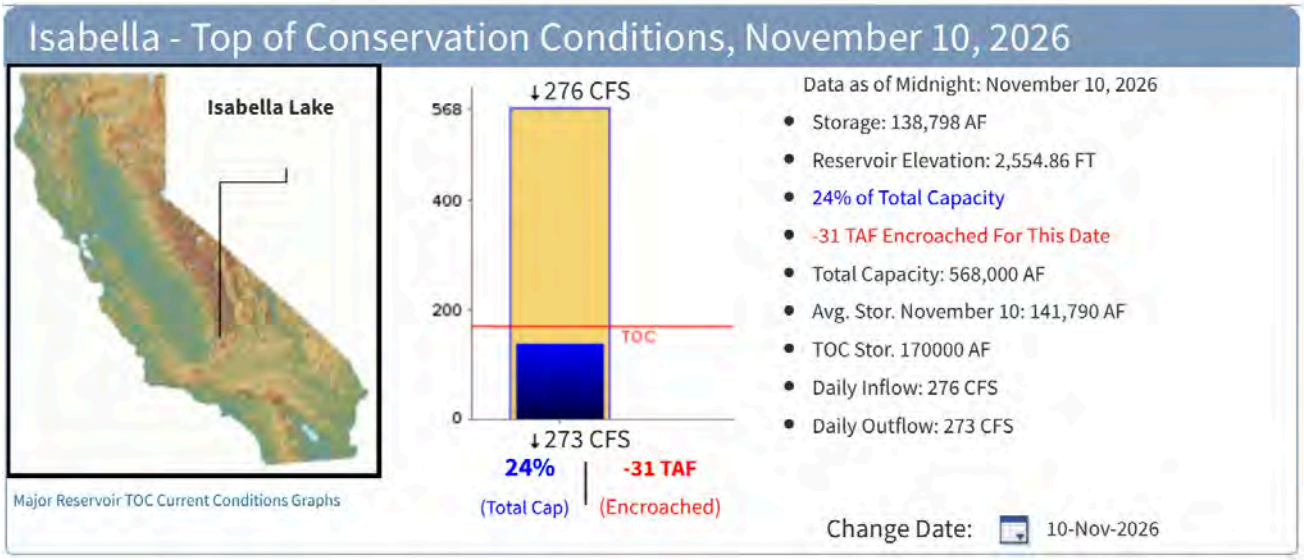


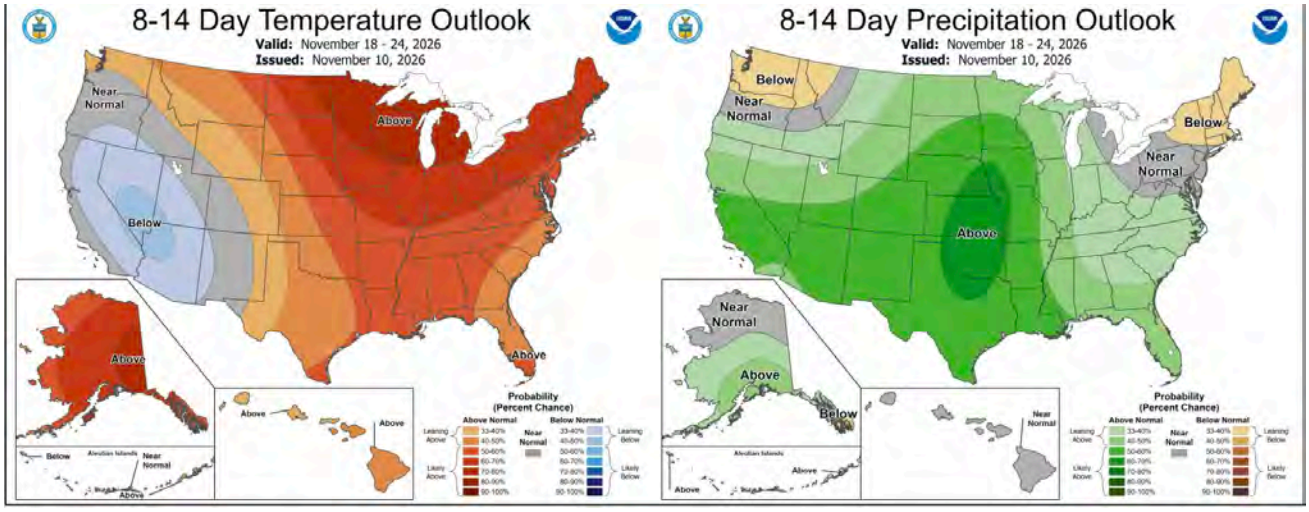




Cloud Seeding: On 11/1 the ground generator at McNally's ran for a total of 5.2 hours.

Isabella Reservoir Storage - The storage at midnight on November 10th was 138,798 ac-ft. The average storage for this date is 141,790 ac-ft. October change in storage was -10,376 ac-ft and November to date is -367 ac-ft.





Short Term Forecast - The National Weather Service's Climate Prediction Center forecast for November 18-24, 2026 map shows a probability leaning below for temperature and likely above for precipitation.

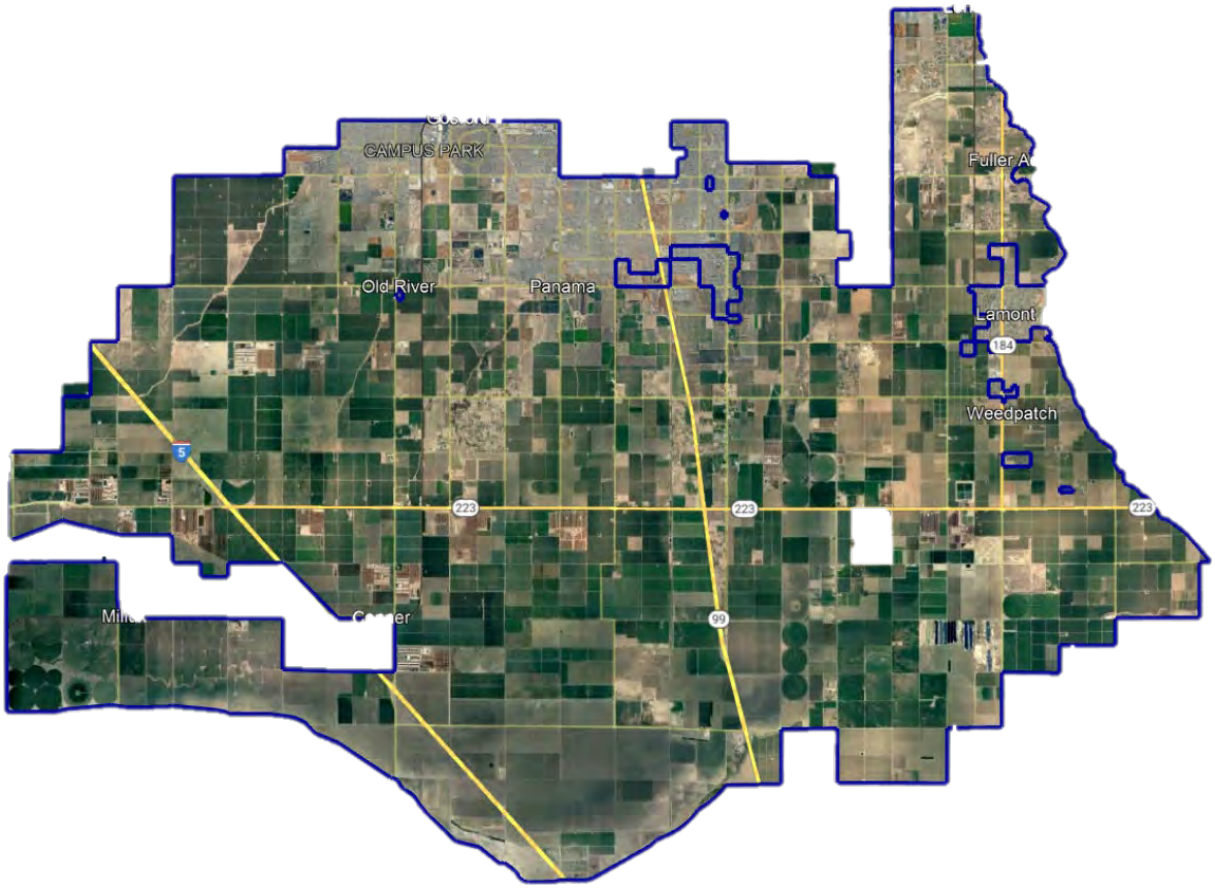
RHS Consulting's near term forecast reports fair, dry conditions will continue through Friday morning. A weak storm system will move through the region late Friday through Saturday morning. Skies will gradually clear Saturday afternoon and be mostly sunny on Sunday.

Record Keeping - I continue to coordinate with Central Records and review daily and monthly reports.

Public Outreach - I responded to a public inquiry.

KERN DELTA
WATER DISTRICT

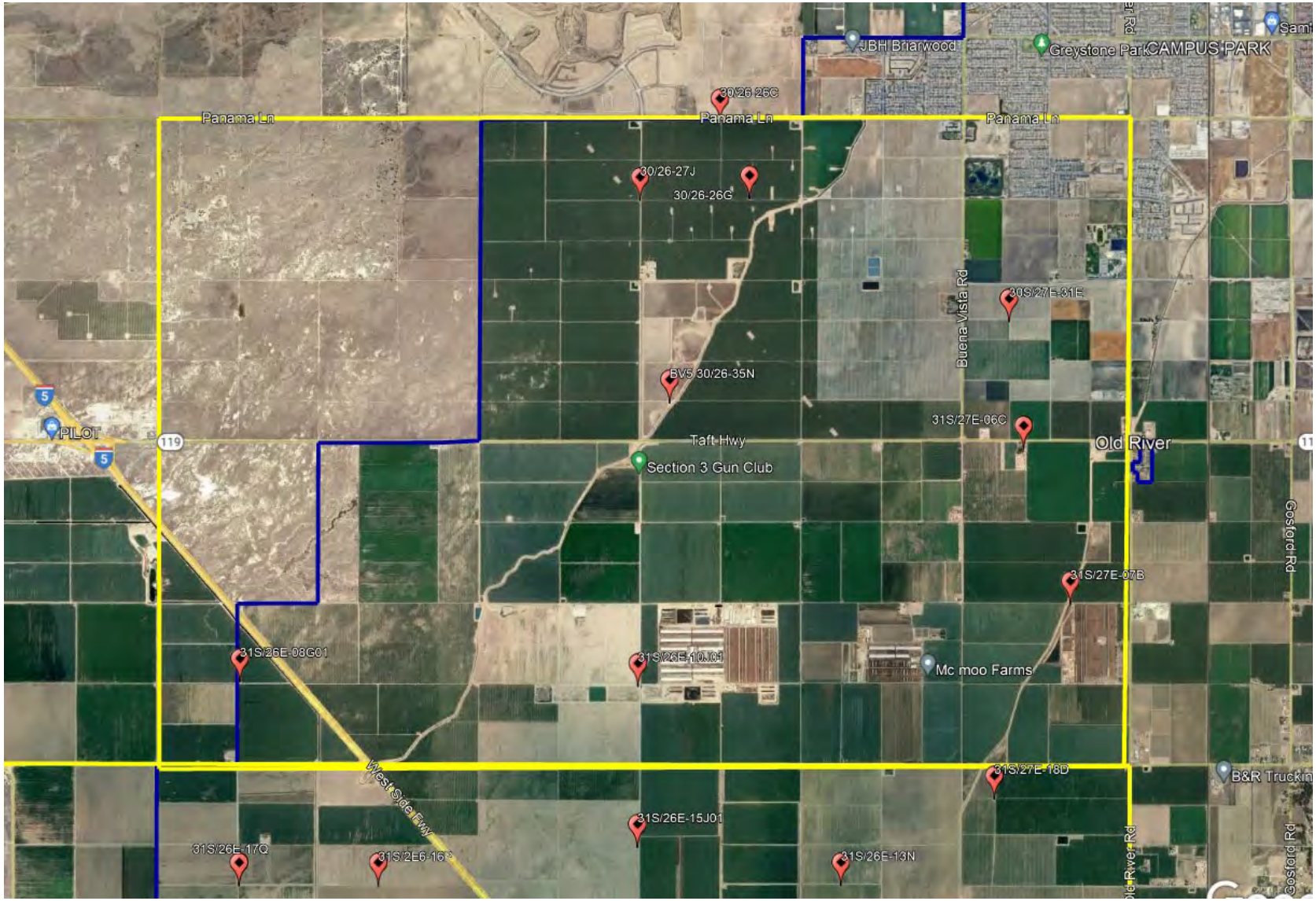
Monthly Groundwater Report



November 2026

KERN DELTA WATER DISTRICT

NORTHWEST



KERN DELTA WATER DISTRICT

2026

		JAN 2022	JAN 2023	JAN 2024	JAN 2025	JAN 2026	FEB 2026	MAR 2026	APR 2026	MAY 2025	JUN 2026	JUL 2026	AUG 2026	SEP 2026	OCT 2026	NOV 2026	DEC 2026	MAXIMUM	MINIMUM	AVERAGE
Northwest Quadrant	30/26-26C	G	207	194	204	204	204	204	R	R	R	R	R	R	R	R		207	194	203
	30/26-26G	G	G	201	178	187	202	179	R	R	R	R	R	R	R	R		202	178	189
	30/26-27J	G	218	196	202	NR	202	202	R	R	R	R	201	R	203	R		218	196	203
	30/26-35N	185	217	184	180	174	172	172	180	183	186	188	188	194	196	196		217	172	186
	30/27-31E	224	228	209	209	207	206	215	216	227	228	228	224	R	220	222		228	206	219
	31/26-08G	200	NR	168	203	165	202	208	204	201	200	201	182	R	186	188		208	165	193
	31/26-10J	205	216	201	205	201	201	202	205	R	R	R	R	R	R	218		218	201	206
	31/27-06C	215	228	210	209	206	210	206	226	226	231	231	241	244	232	234		244	206	223
	31/27-07B	235	207	197	184	181	179	183	191	208	201	201	206	223	208	197		235	179	200
	MONTHLY AVG	211	217	196	197	191	198	197	204	209	209	210	207	220	208	209				
	MAXIMUM DEPTH TO WATER NW (running average for all data last 5 years)																	**244**		
	MINIMUM DEPTH TO WATER NW (running average for all data last 5 years)																	**165**		
	AVERAGE DEPTH TO WATER NW (running average for all data last 5 years)																	**204**		

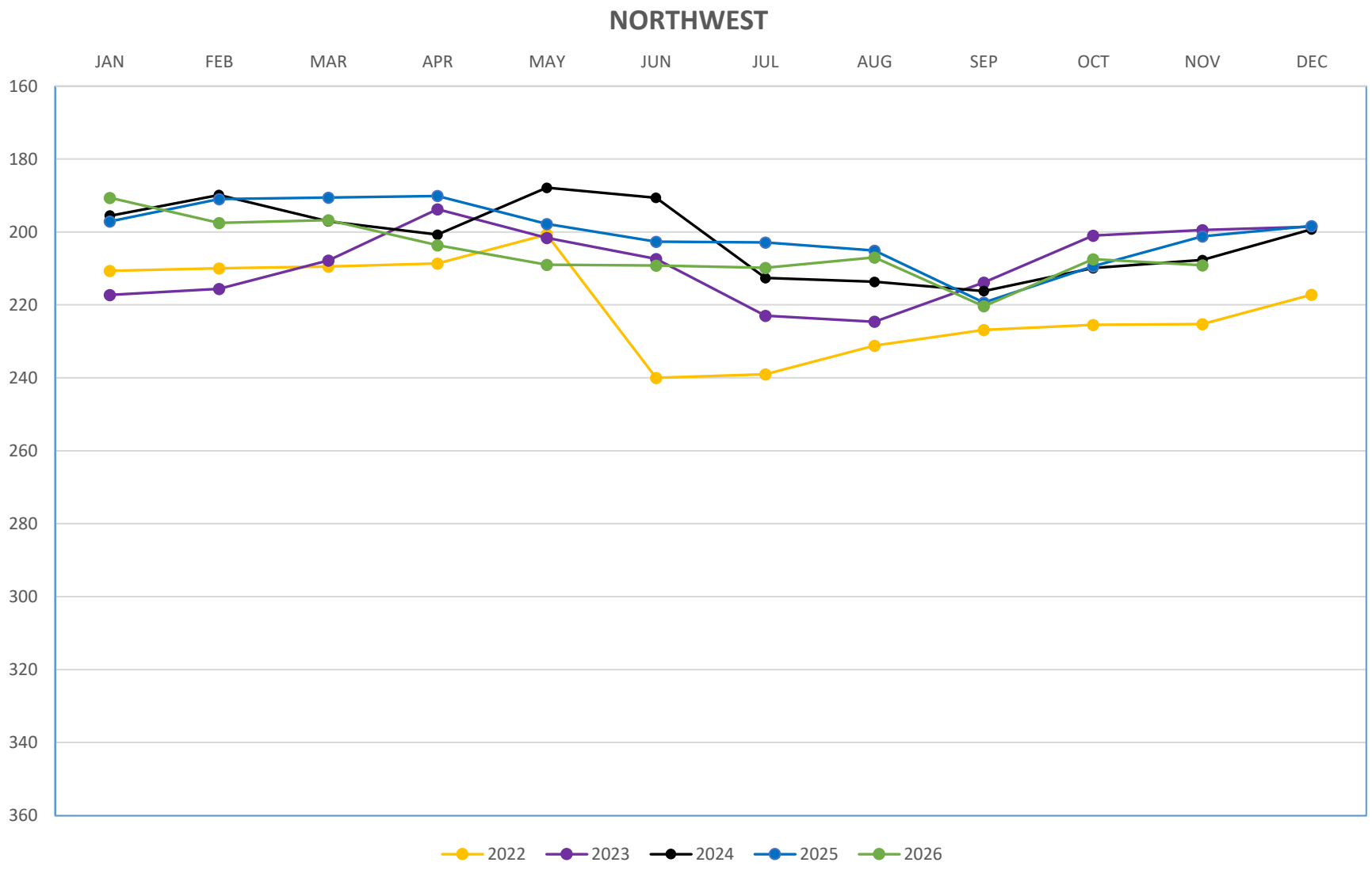
G = gated well, unable to access
R = running well, no measurement taken
NR = temporary 'no reading', no measurement taken

yellow shading = inactive well

11/12/2026

KERN DELTA WATER DISTRICT

2026



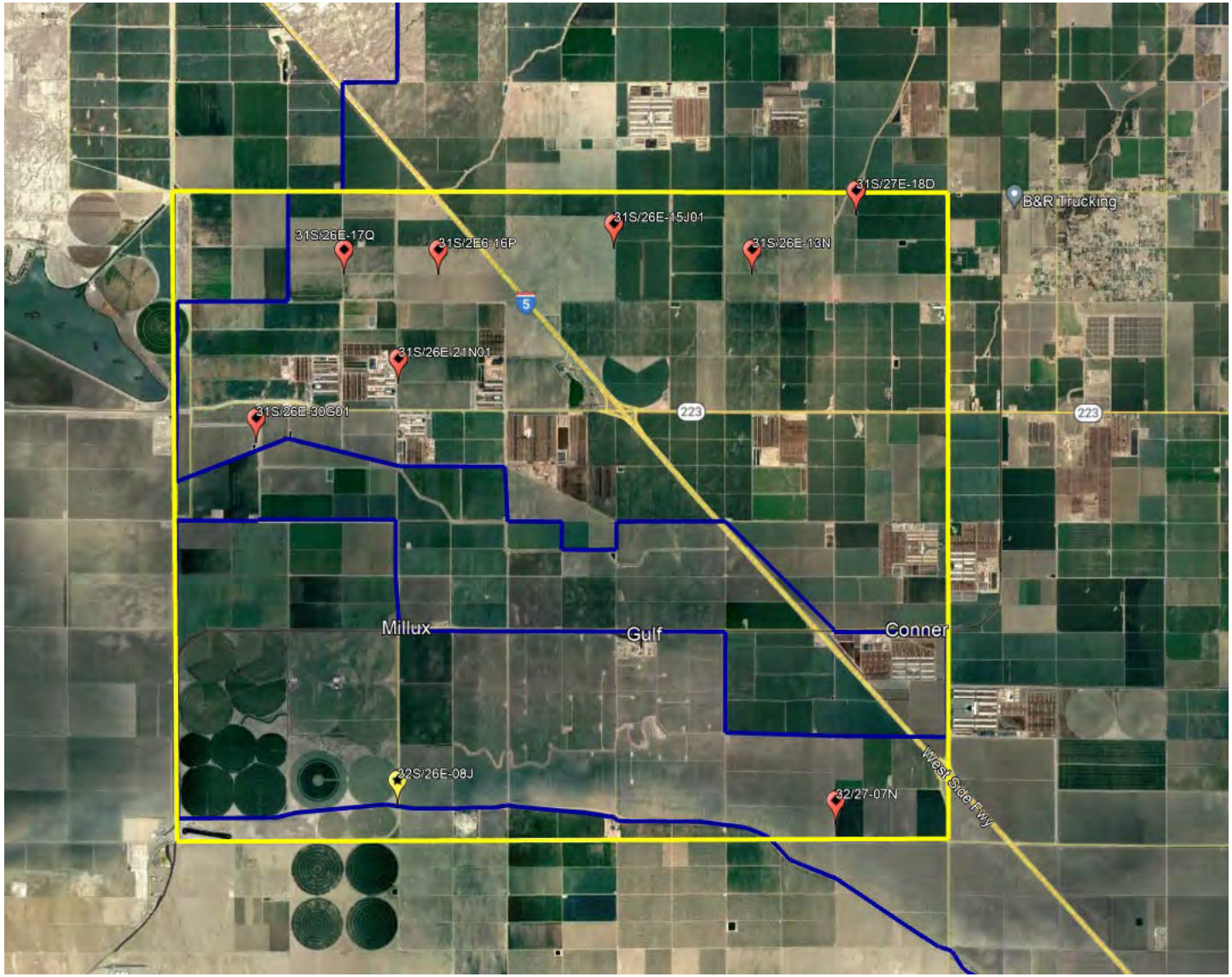
G = gated well, unable to access
R = running well, no measurement taken
NR = temporary 'no reading', no measurement taken

yellow shading = inactive well

11/12/2026

KERN DELTA WATER DISTRICT

SOUTHWEST



KERN DELTA WATER DISTRICT

2026

		JAN 2022	JAN 2023	JAN 2024	JAN 2025	JAN 2026	FEB 2026	MAR 2026	APR 2026	MAY 2025	JUN 2026	JUL 2026	AUG 2026	SEP 2026	OCT 2026	NOV 2026	DEC 2026	MAXIMUM	MINIMUM	AVERAGE
Southwest Quadrant	31/26-13N	206	215	191	203	203	201	201	217	217	221	225	239	R	227	212		239	191	213
	31/26-15J	205	211	186	203	201	202	203	208	R	R	NR	R	R	220	206		220	186	205
	31/26-16P	200	207	181	201	202	202	200	R	202	R	227	R	R	214	204		227	181	204
	31/26-17Q	202	NR	188	211	213	202	216	213	R	R	211	R	R	212	202		216	188	207
	31/26-21N	228	215	180	206	203	200	206	204	221	228	231	234	257	229	205		257	180	216
	31/26-30G	234	200	152	203	NR	294	316	R	R	296	R	290	R	302	310		316	152	260
	31/27-18D01	222	222	190	201	206	202	R	R	221	228	232	R	R	238	R		238	190	216
	32/26-08J	200	213	NR	200	206	206	206	206	207	208	206	206	208	203	203		213	200	206
	32/27-07N	201	NR	160	200	NR	284	NR	201	202	204	215	221	212	214	188		284	160	209
	MONTHLY AVG	211	212	179	203	205	221	221	208	212	231	221	238	226	229	216				
	MAXIMUM DEPTH TO WATER SW (running average for all data last 5 years)																	**316**		
	MINIMUM DEPTH TO WATER SW (running average for all data last 5 years)																	**152**		
	AVERAGE DEPTH TO WATER SW (running average for all data last 5 years)																	**214**		

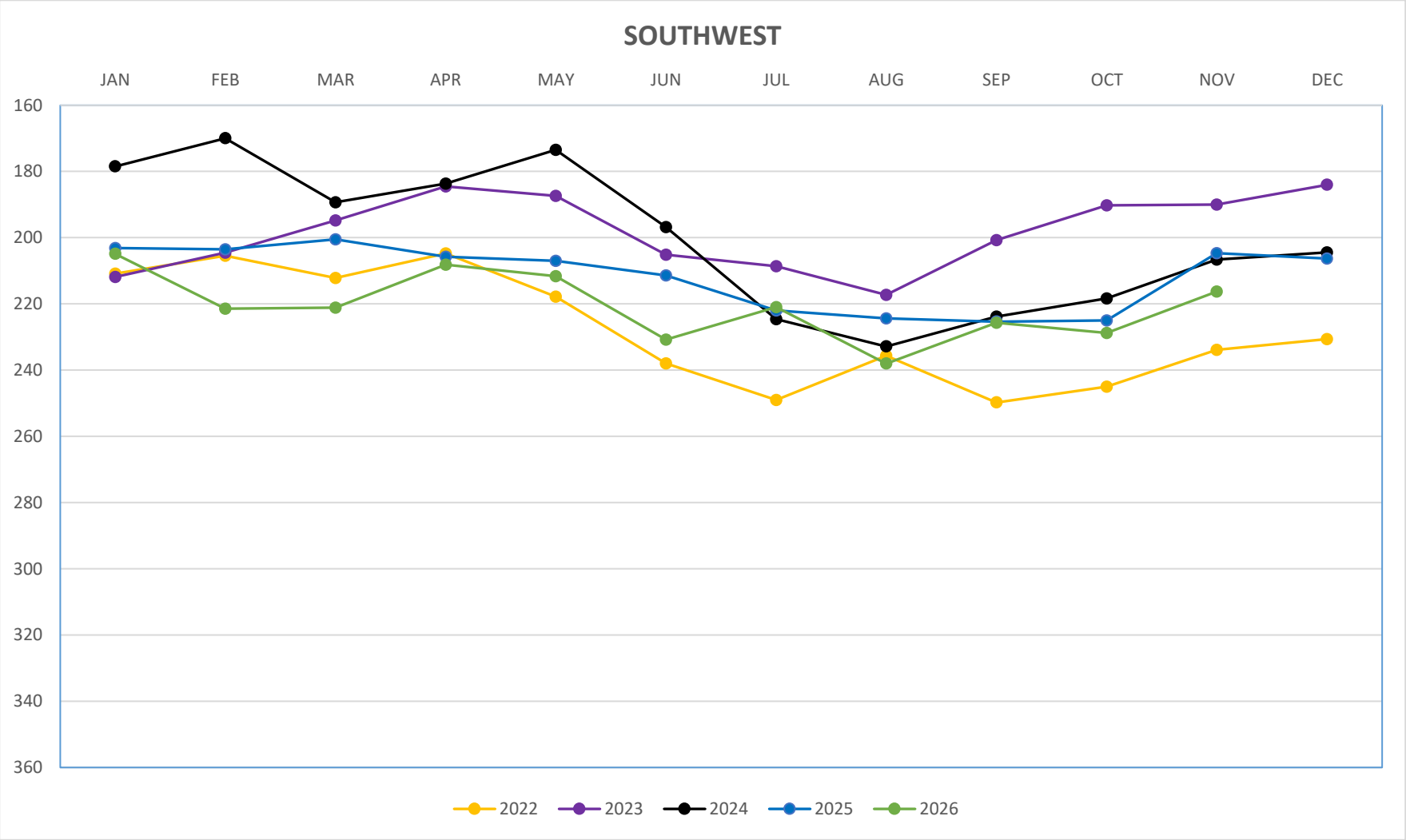
G = gated well, unable to access
R = running well, no measurement taken
NR = temporary 'no reading', no measurement taken

yellow shading = inactive well

11/12/2026

KERN DELTA WATER DISTRICT

2026



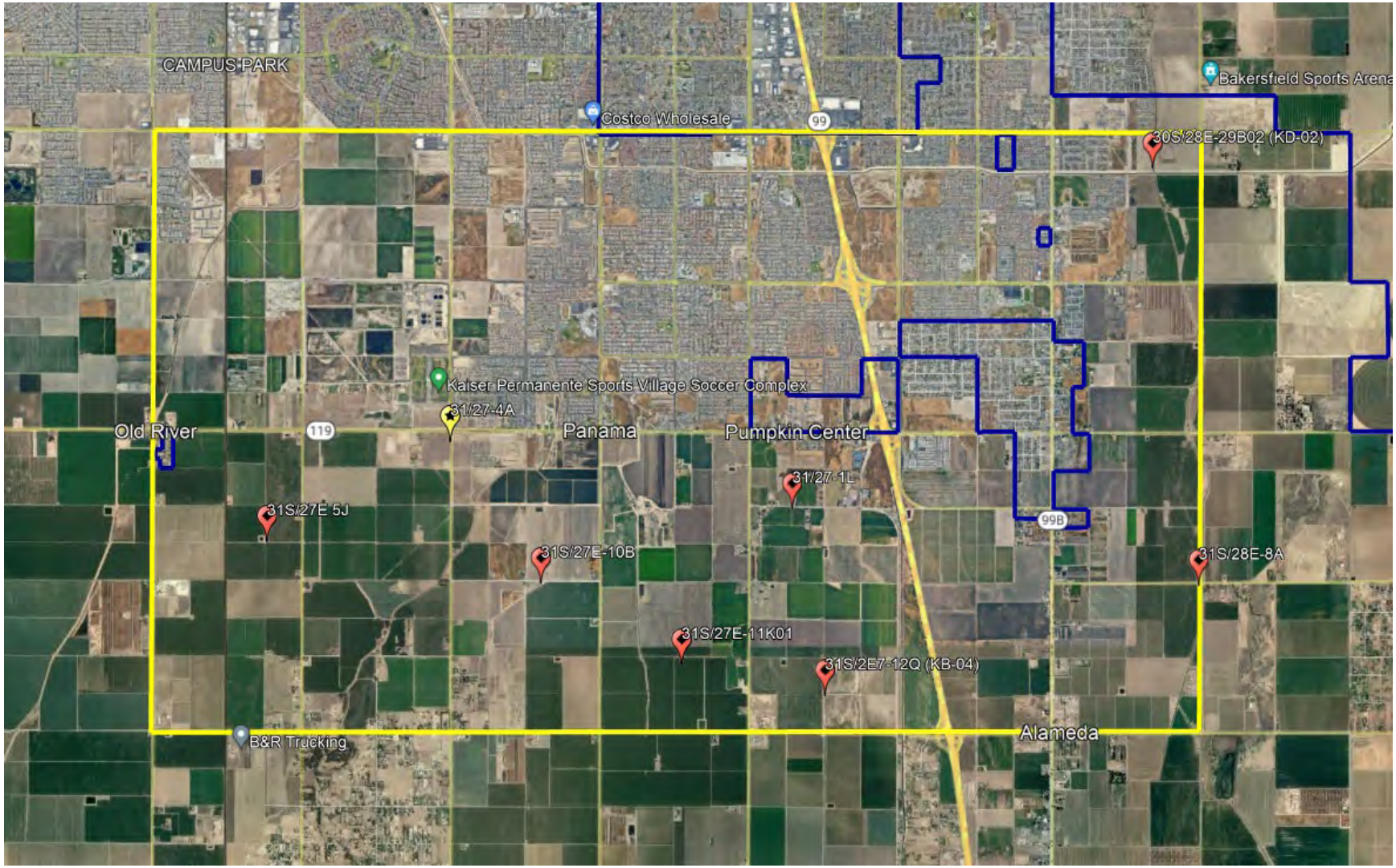
G = gated well, unable to access
R = running well, no measurement taken
NR = temporary 'no reading', no measurement taken

yellow shading = inactive well

11/12/2026

KERN DELTA WATER DISTRICT

NORTH CENTRAL



KERN DELTA WATER DISTRICT

2026

		JAN 2022	JAN 2023	JAN 2024	JAN 2025	JAN 2026	FEB 2026	MAR 2026	APR 2026	MAY 2025	JUN 2026	JUL 2026	AUG 2026	SEP 2026	OCT 2026	NOV 2026	DEC 2026	MAXIMUM	MINIMUM	AVERAGE
North-Central Quadrant	30/28-29B	231	240	NR	224	233	232	232	238	241	248	253	253	249	244	253		253	224	241
	31/27-01L	170	219	212	205	214	210	215	229	224	232	234	237	R	228	223		237	170	218
	31/27-04A	182	186	174	168	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR		186	168	178
	31/27-05J	230	214	209	206	201	201	210	230	230	227	200	R	230	232	220		232	200	217
	31/27-10B	210	210	208	204	201	201	204	218	217	R	R	R	R	225	R		225	201	210
	31/27-12Q	174	172	149	140	139	138	138	140	139	141	141	144	144	144	145		174	138	146
	31/28-08A	264	256	232	250	248	247	236	248	263	271	253	273	277	267	258		277	232	256
	MONTHLY AVG	209	214	197	200	206	205	206	217	219	224	216	227	225	223	220				
	MAXIMUM DEPTH TO WATER N-C (running average for all data last 5 years)																	**277**		
	MINIMUM DEPTH TO WATER N-C (running average for all data last 5 years)																	**138**		
	AVERAGE DEPTH TO WATER N-C (running average for all data last 5 years)																	**213**		

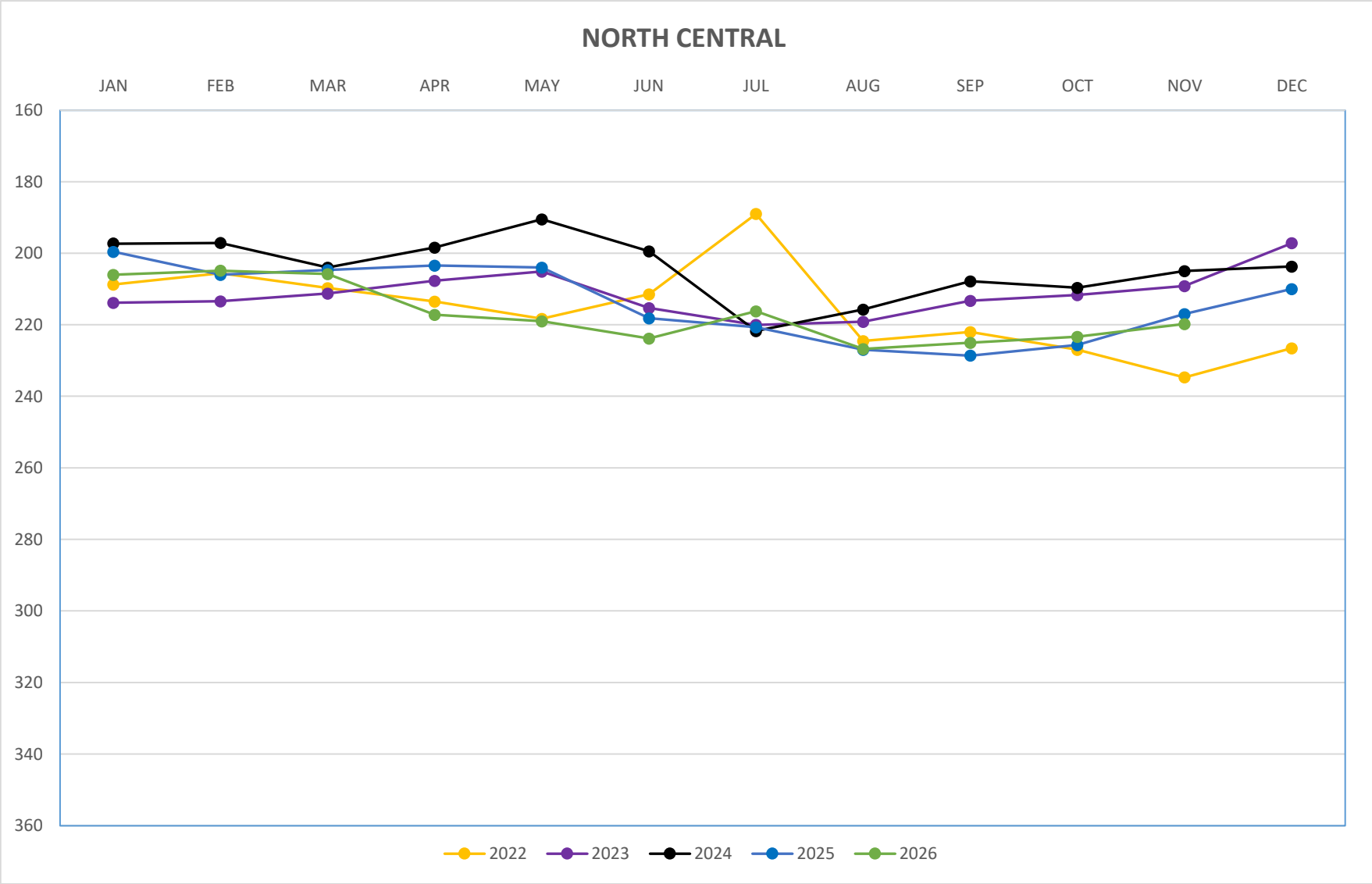
G = gated well, unable to access
R = running well, no measurement taken
NR = temporary 'no reading', no measurement taken

yellow shading = inactive well

11/12/2026

KERN DELTA WATER DISTRICT

2026



G = gated well, unable to access
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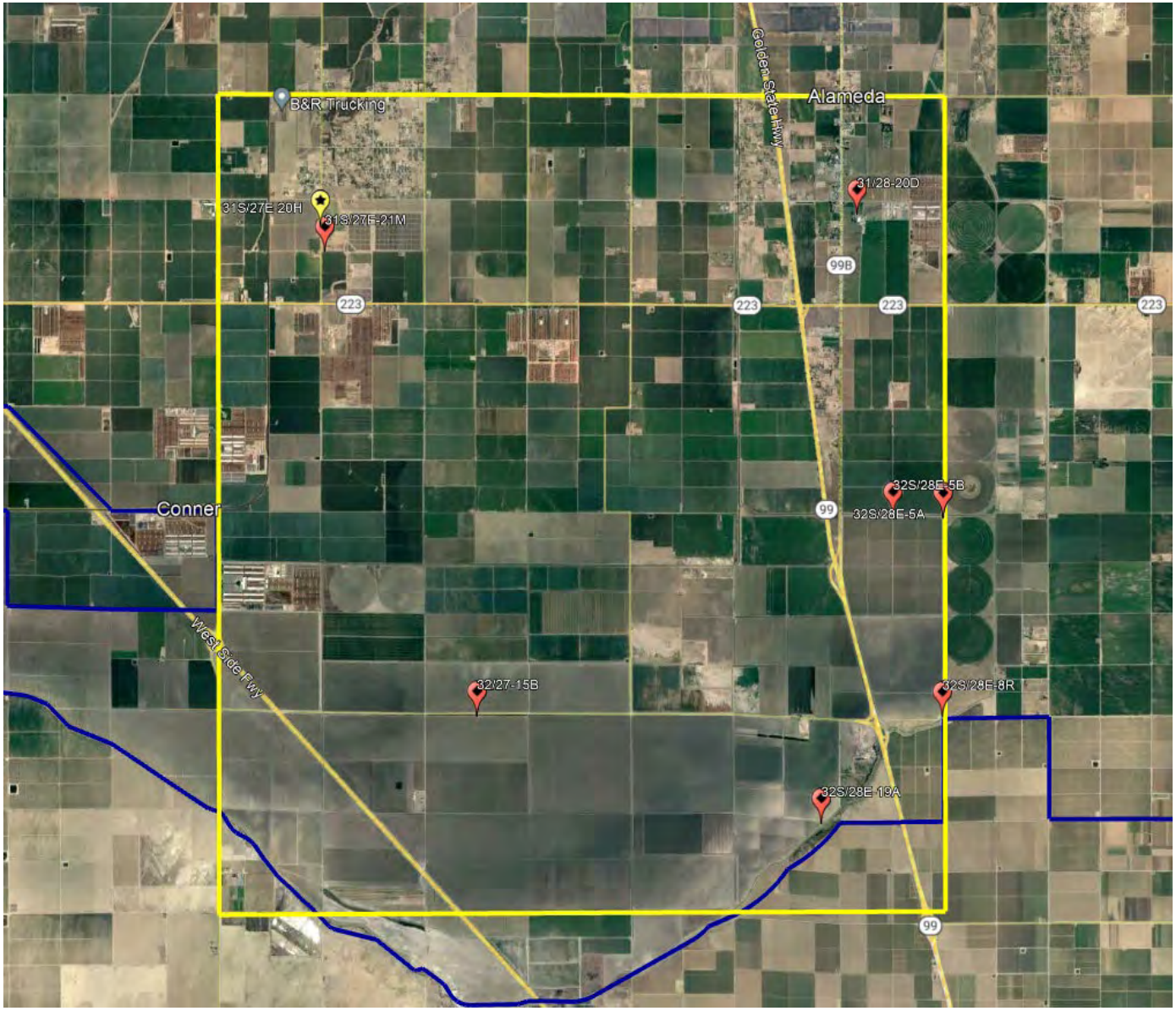
NR = temporary 'no reading', no measurement taken

yellow shading = inactive well

11/12/2026

KERN DELTA WATER DISTRICT

SOUTH CENTRAL



KERN DELTA WATER DISTRICT

2026

		JAN 2022	JAN 2023	JAN 2024	JAN 2025	JAN 2026	FEB 2026	MAR 2026	APR 2026	MAY 2025	JUN 2026	JUL 2026	AUG 2026	SEP 2026	OCT 2026	NOV 2026	DEC 2026	MAXIMUM	MINIMUM	AVERAGE
South-Central Quadrant	31/27-20H	213	203	162	189	251	256	254	NR	244	259	245	253	242	226	201		259	162	228
	31/27-21M	220	NR	189	189	NR	NR	206	R	R	233	230	R	224	213	214		233	189	213
	31/28-20D	202	203	NR	278	265	261	NR	R	285	285	286	287	225	273	270		287	202	260
	32/27-15B	201	338	NR	225	224	215	214	239	205	219	239	242	244	245	216		338	201	233
	32/28-19A	255	NR	242	230	222	234	234	NR	278	286	290	294	294	295	270		295	222	263
	32/28-05A	214	243	217	223	201	228	213	NR	267	275	264	267	265	272	270		275	201	244
	32/28-05B	221	215	210	205	202	193	207	212	237	240	246	268	262	262	234		268	193	228
	32/28-08R	255	NR	235	222	214	208	204	NR	249	241	273	282	284	267	246		284	204	245
	MONTHLY AVG	223	240	209	220	226	228	219	226	252	255	259	270	255	257	240				
	MAXIMUM DEPTH TO WATER S-C (running average for all data last 5 years)																	**338**		
	MINIMUM DEPTH TO WATER S-C (running average for all data last 5 years)																	**162**		
	AVERAGE DEPTH TO WATER S-C (running average for all data last 5 years)																	**240**		

G = gated well, unable to access
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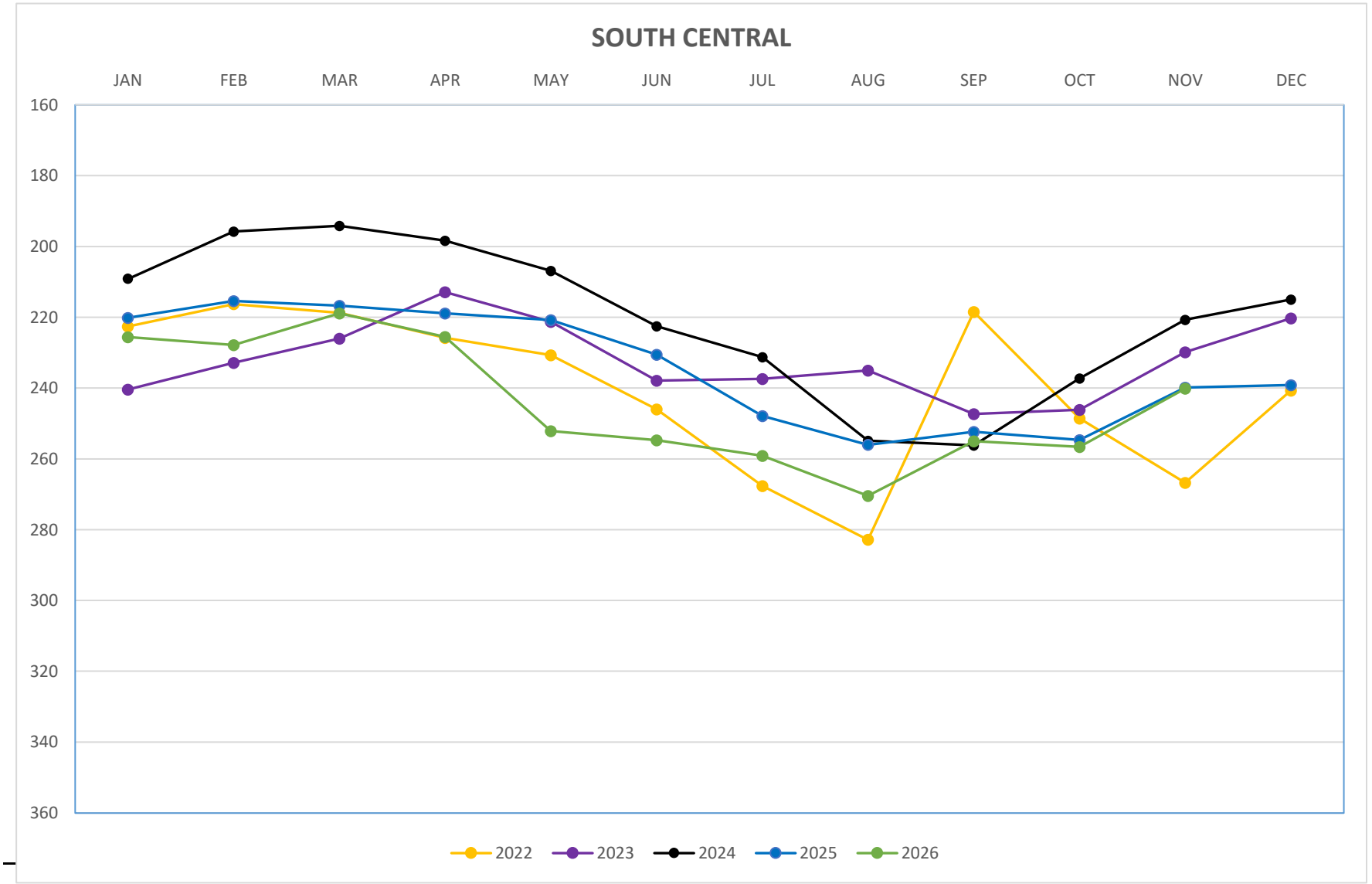
yellow shading = inactive well

11/12/2026

KERN DELTA WATER DISTRICT

2026



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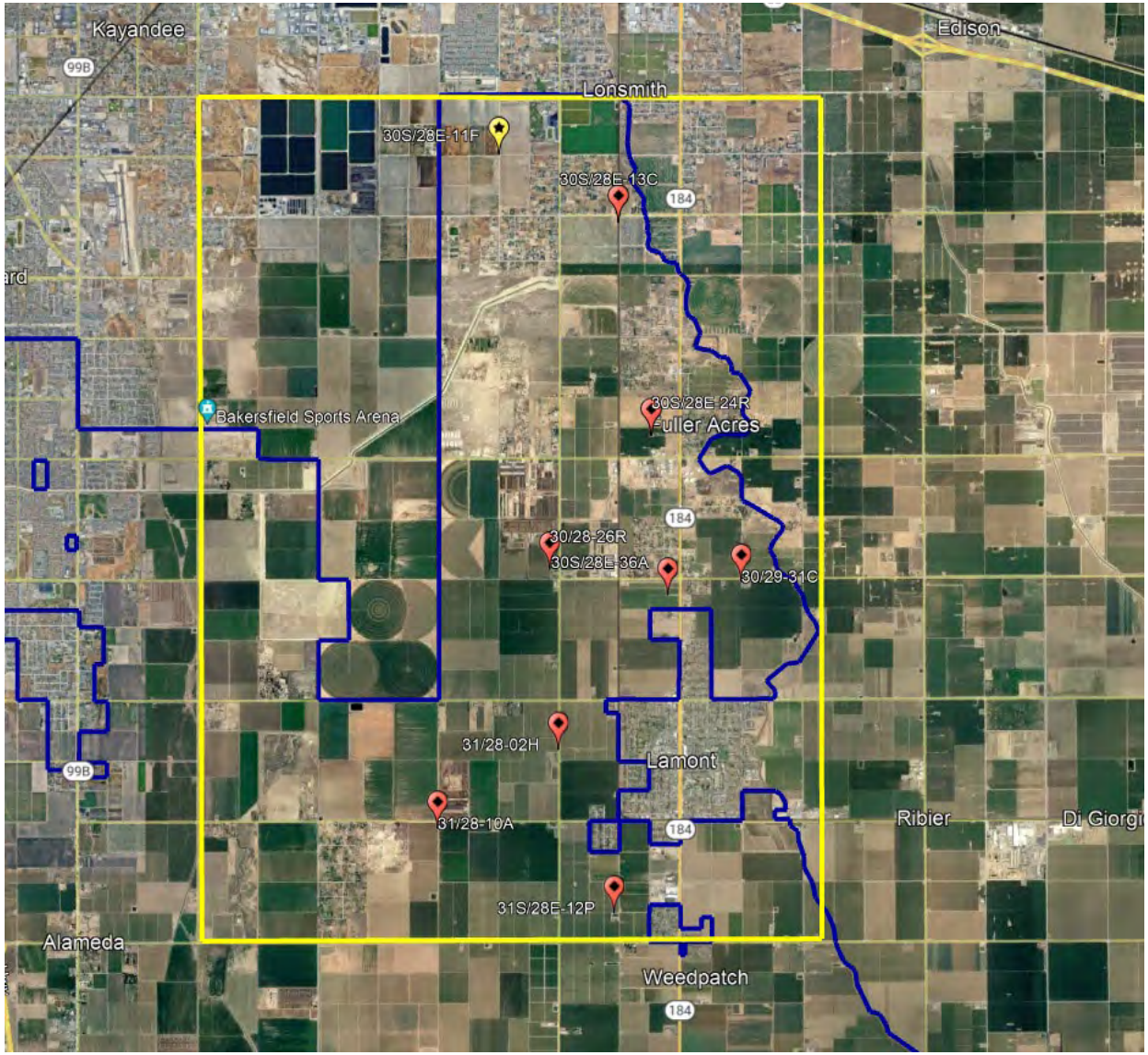
11/12/2026

KERN DELTA WATER DISTRICT

NORTHEAST



KERN DELTA WATER DISTRICT

2026

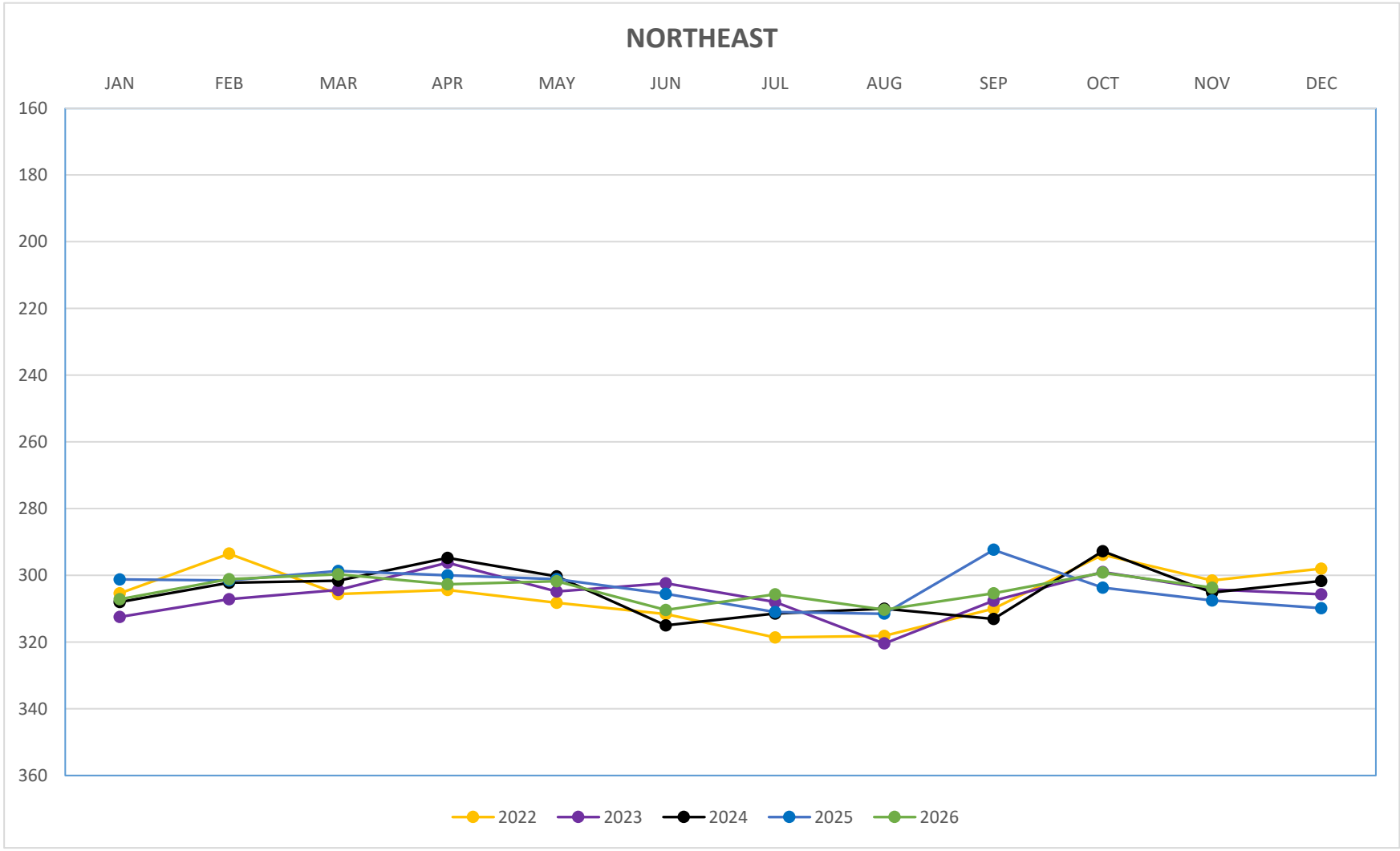
		JAN 2022	JAN 2023	JAN 2024	JAN 2025	JAN 2026	FEB 2026	MAR 2026	APR 2026	MAY 2025	JUN 2026	JUL 2026	AUG 2026	SEP 2026	OCT 2026	NOV 2026	DEC 2026	MAXIMUM	MINIMUM	AVERAGE
Northeast Quadrant	30/28-11F	272	NR	280	277	NR	275	276	280	286	283	288	288	288	278	276		288	272	281
	30/28-13C	320	313	317	333	319	317	R	321	R	R	R	329	334	322	322		334	313	322
	30/28-26R	NR	NR	306	295	297	296	295	297	304	R	R	310	310	306	305		310	295	302
	30/28-36A	NR	334	336	325	327	324	327	328	NR	334	NR	R	NR	NR	NR		336	324	329
	30/29-31C	344	347	344	337	340	338	338	321	344	345	347	347	R	R	345		347	321	341
	31/28-10A	265	269	265	259	260	260	265	267	270	278	282	276	280	273	268		282	259	269
	31/28-12P	NR	302	NR	291	300	298	297	305	305	312	R	312	315	317	306		317	291	305
	MONTHLY AVG	300	313	308	302	307	301	300	303	302	310	306	310	305	299	304				
	MAXIMUM DEPTH TO WATER NE (running average for all data last 5 years) **347**																			
	MINIMUM DEPTH TO WATER NE (running average for all data last 5 years) **259**																			
	AVERAGE DEPTH TO WATER NE (running average for all data last 5 years) **305**																			

G = gated well, unable to access
R = running well, no measurement taken
NR = temporary 'no reading', no measurement taken

yellow shading = inactive well

KERN DELTA WATER DISTRICT

2026



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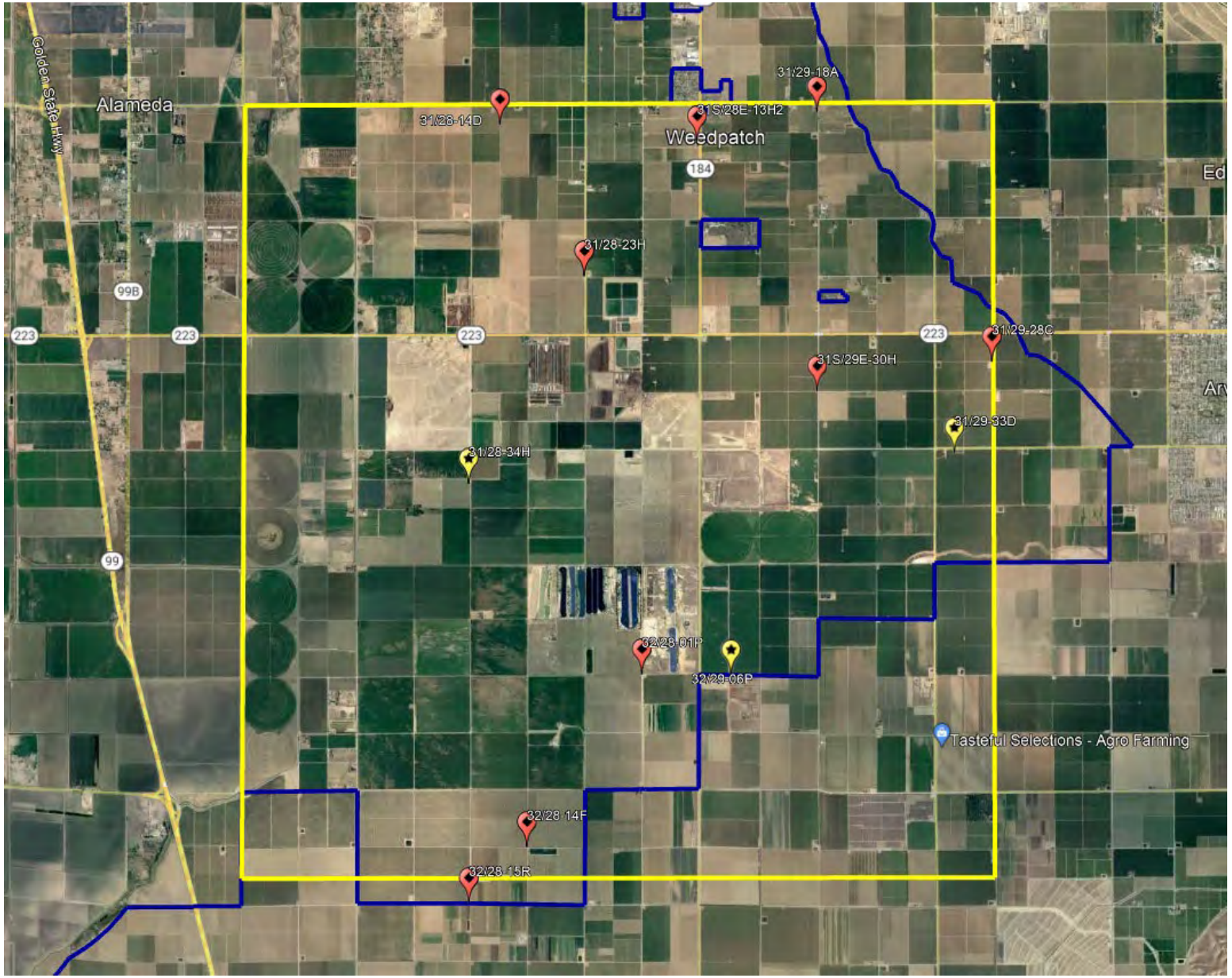
yellow shading = inactive well

11/12/2026

KERN DELTA WATER DISTRICT

SOUTHEAST



KERN DELTA WATER DISTRICT

2026

		JAN 2022	JAN 2023	JAN 2024	JAN 2025	JAN 2026	FEB 2026	MAR 2026	APR 2026	MAY 2025	JUN 2026	JUL 2026	AUG 2026	SEP 2026	OCT 2026	NOV 2026	DEC 2026	MAXIMUM	MINIMUM	AVERAGE
Southeast Quadrant	31/28-13H2	290	299	296	285	279	284	282	NR	R	284	284	283	287	283	281		299	279	286
	31/28-14D	247	245	243	237	241	244	231	248	246	247	254	249	249	244	243		254	231	245
	31/28-23H	276	313	300	314	NR	NR	NR	NR	R	R	R	NR	NR	R	NR		314	276	301
	31/28-34H	203	213	224	216	202	202	204	209	230	253	205	205	213	213	201		253	201	213
	31/29-28C	NR	201	NR	NR	205	202	200	201	210	208	204	204	R	R	200		210	200	204
	31/29-30H	353	333	324	325	321	320	324	334	R	346	360	352	R	NR	343		360	320	336
	31/29-33D	239	347	341	338	343	322	334	342	344	348	353	353	354	349	350		354	239	337
	32/28-14F	NR	NR	243	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR		243	243	243
	32/28-15R	314	298	R	NR	294	272	296	NR	R	NR	R	R	344	339	342		344	272	312
	32/28-01P	207	NR	196	190	NR	279	282	NR	211	204	202	206	R	222	202		282	190	218
	32/29-06P	NR	198	190	184	184	188	187	200	188	212	215	201	202	201	201		215	184	197
	MONTHLY AVG	266	272	262	261	259	257	260	256	238	263	260	257	275	264	263				
	MAXIMUM DEPTH TO WATER SE (running average for all data last 5 years)																	**360**		
	MINIMUM DEPTH TO WATER SE (running average for all data last 5 years)																	**184**		
	AVERAGE DEPTH TO WATER SE (running average for all data last 5 years)																	**261**		

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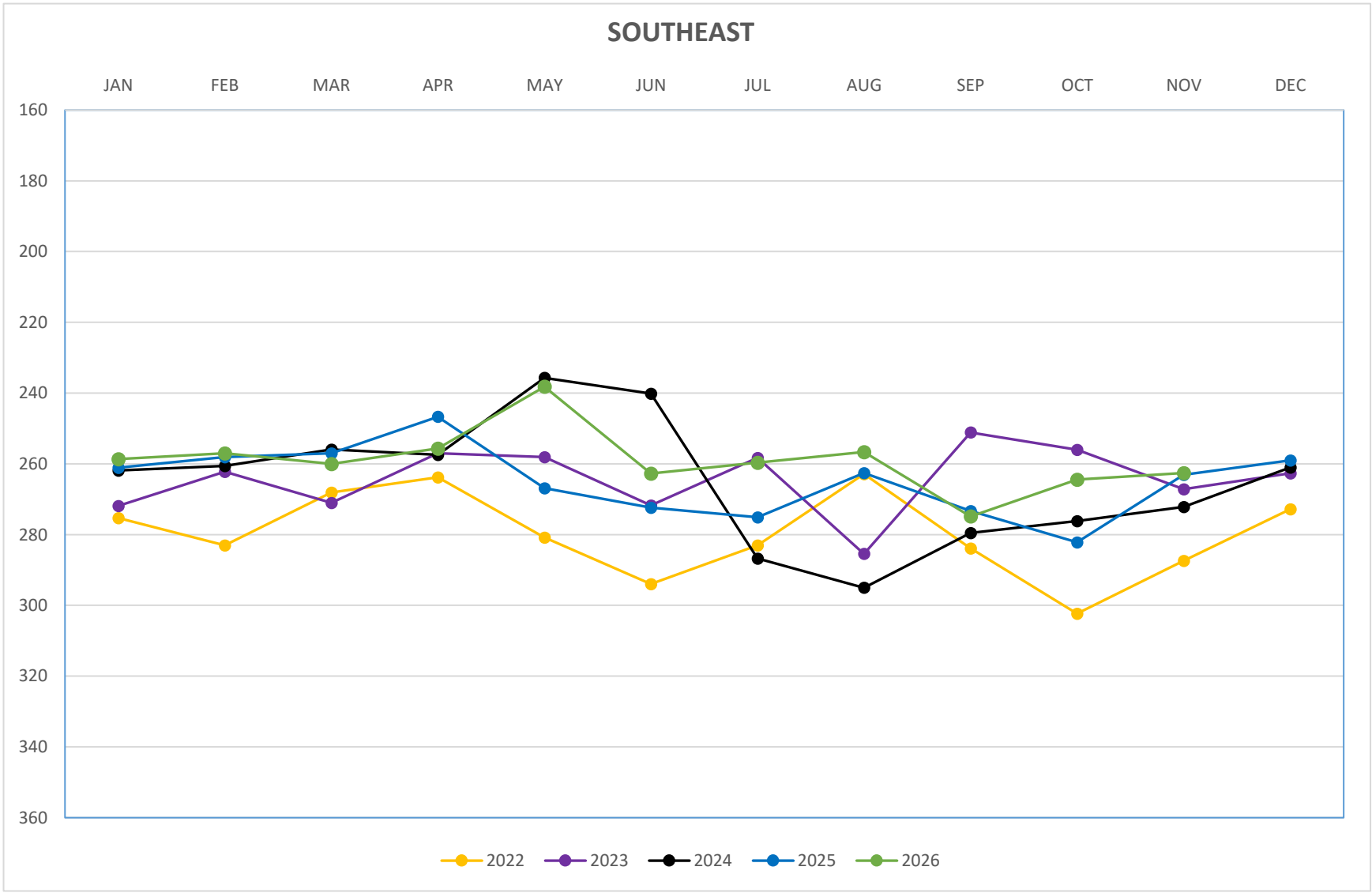
NR = temporary 'no reading', no measurement taken

yellow shading = inactive well

11/12/2026

KERN DELTA WATER DISTRICT

2026



G = gated well, unable to access
R = running well, no measurement taken
NR = temporary 'no reading', no measurement taken

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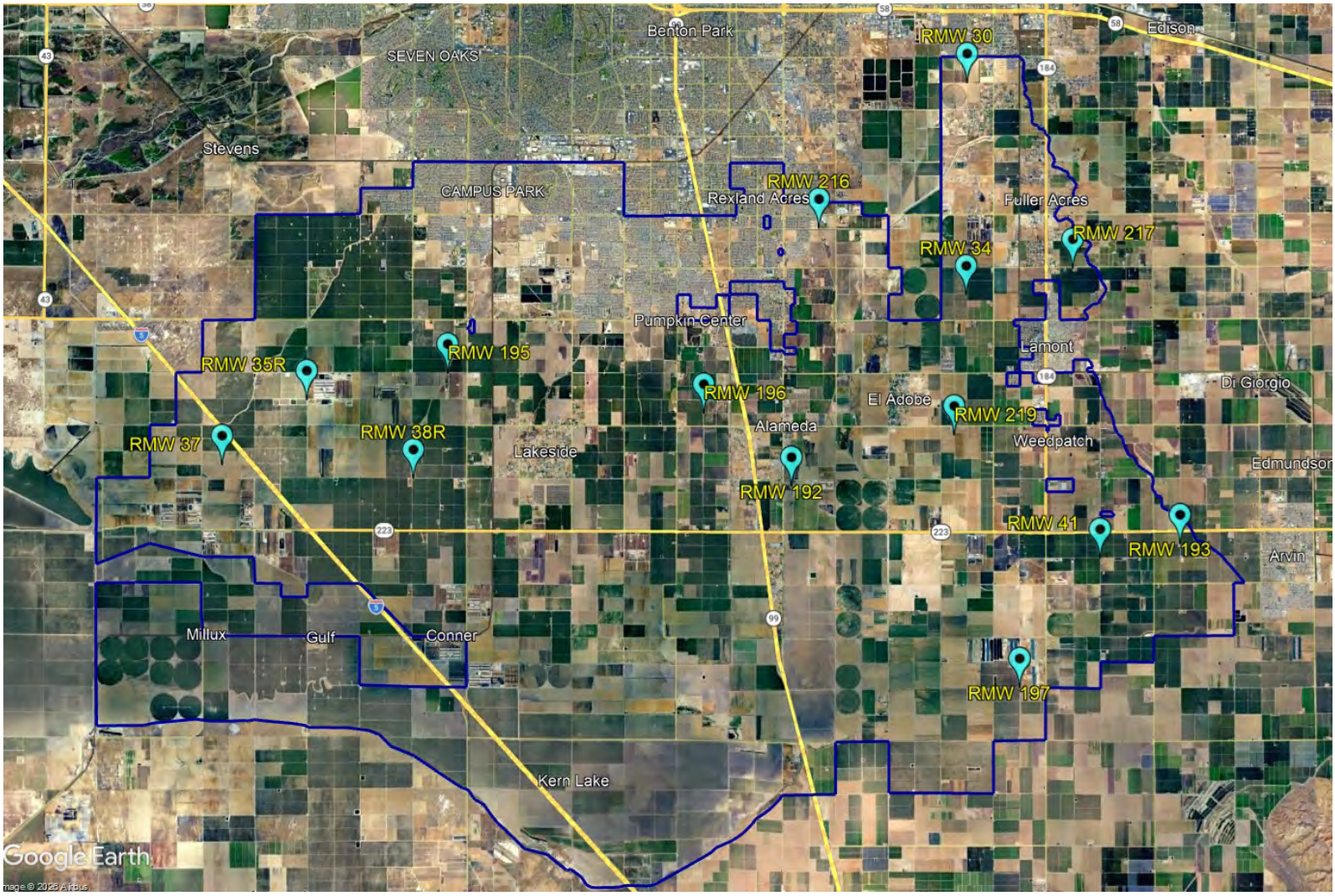
11/12/2026

KERN DELTA
WATER DISTRICT

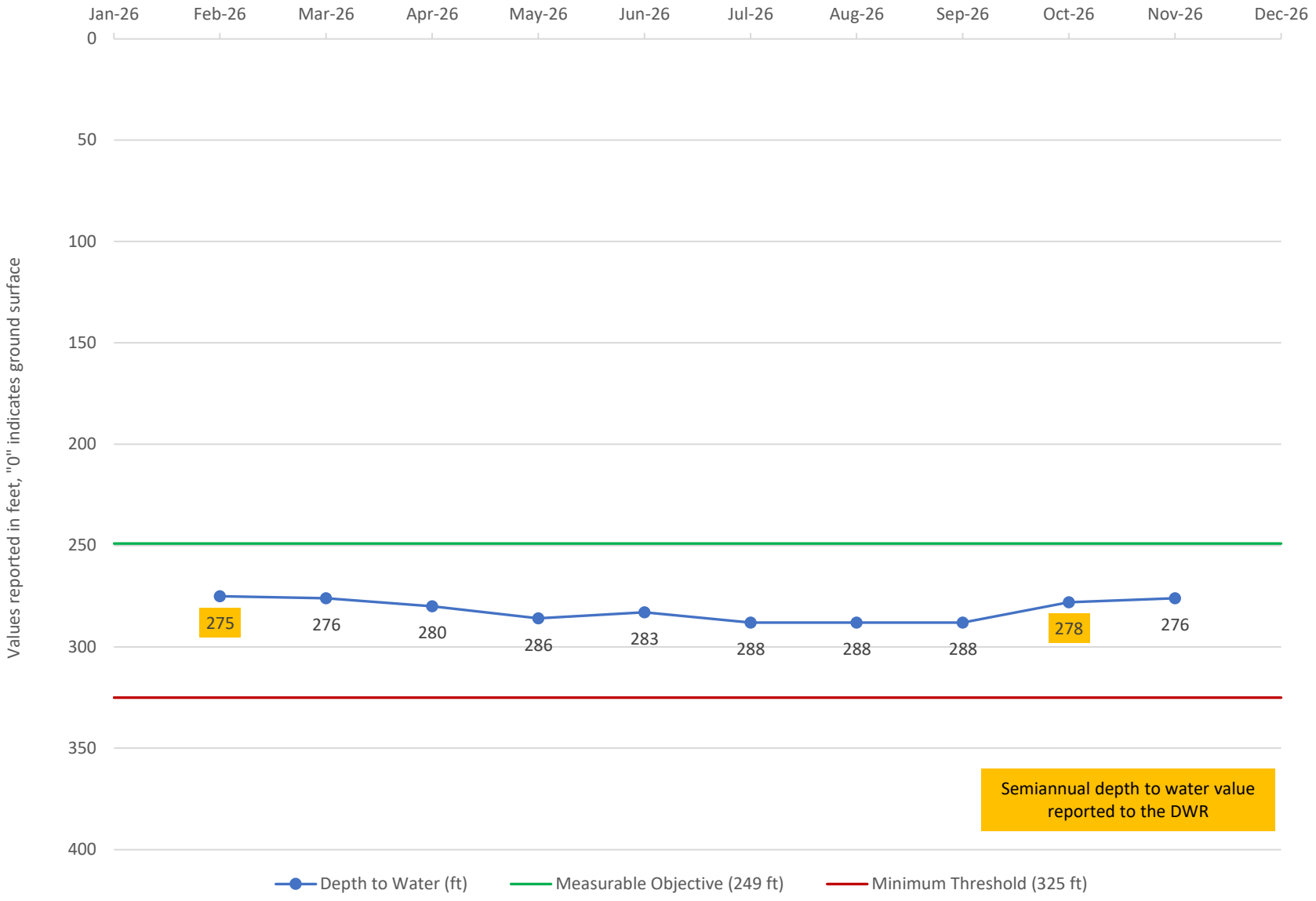
Monthly SGMA Wells Monitoring Report



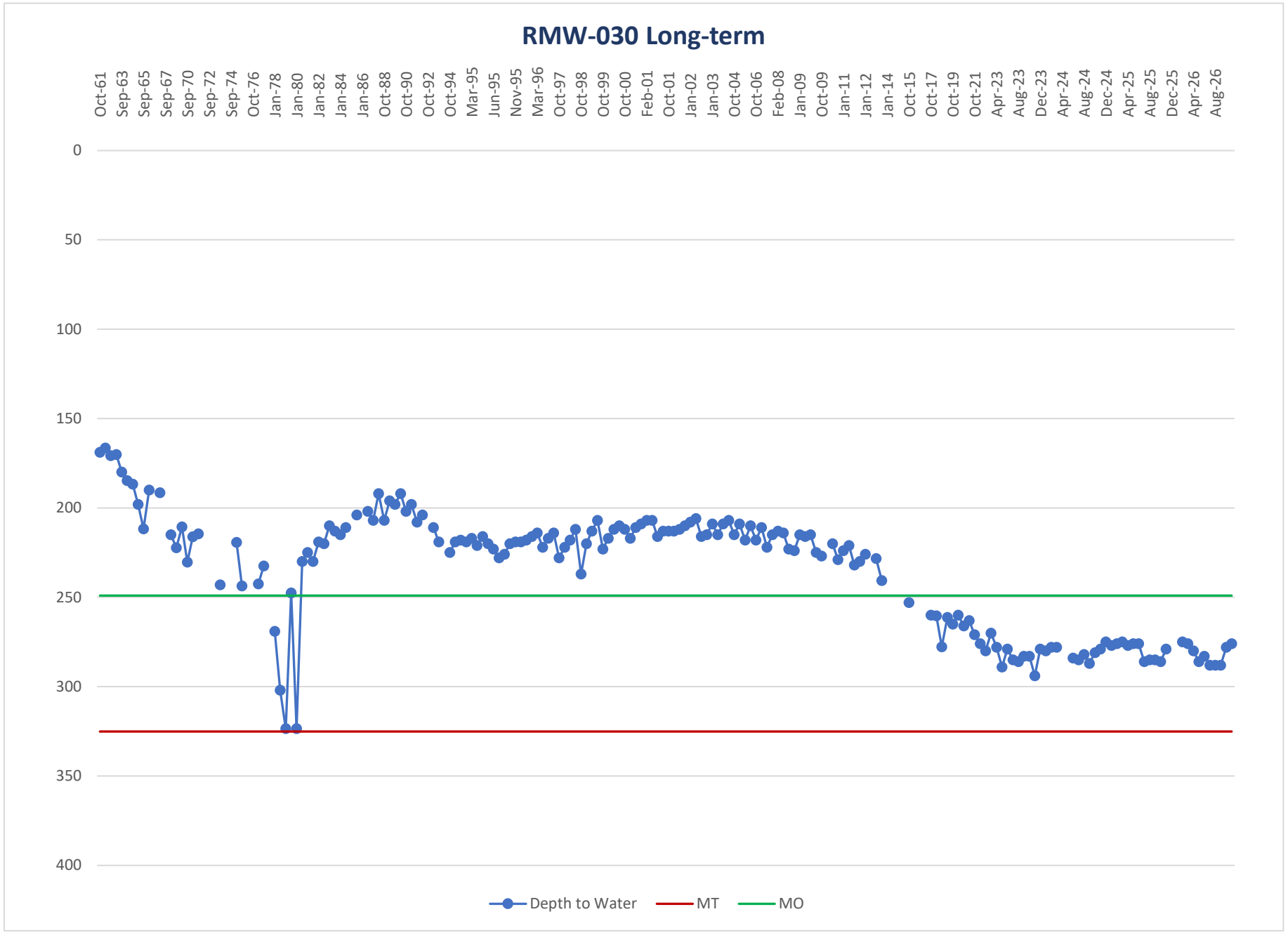
KRGSA SGMA MONITORING NETWORK
(within Kern Delta boundaries)

November 2026

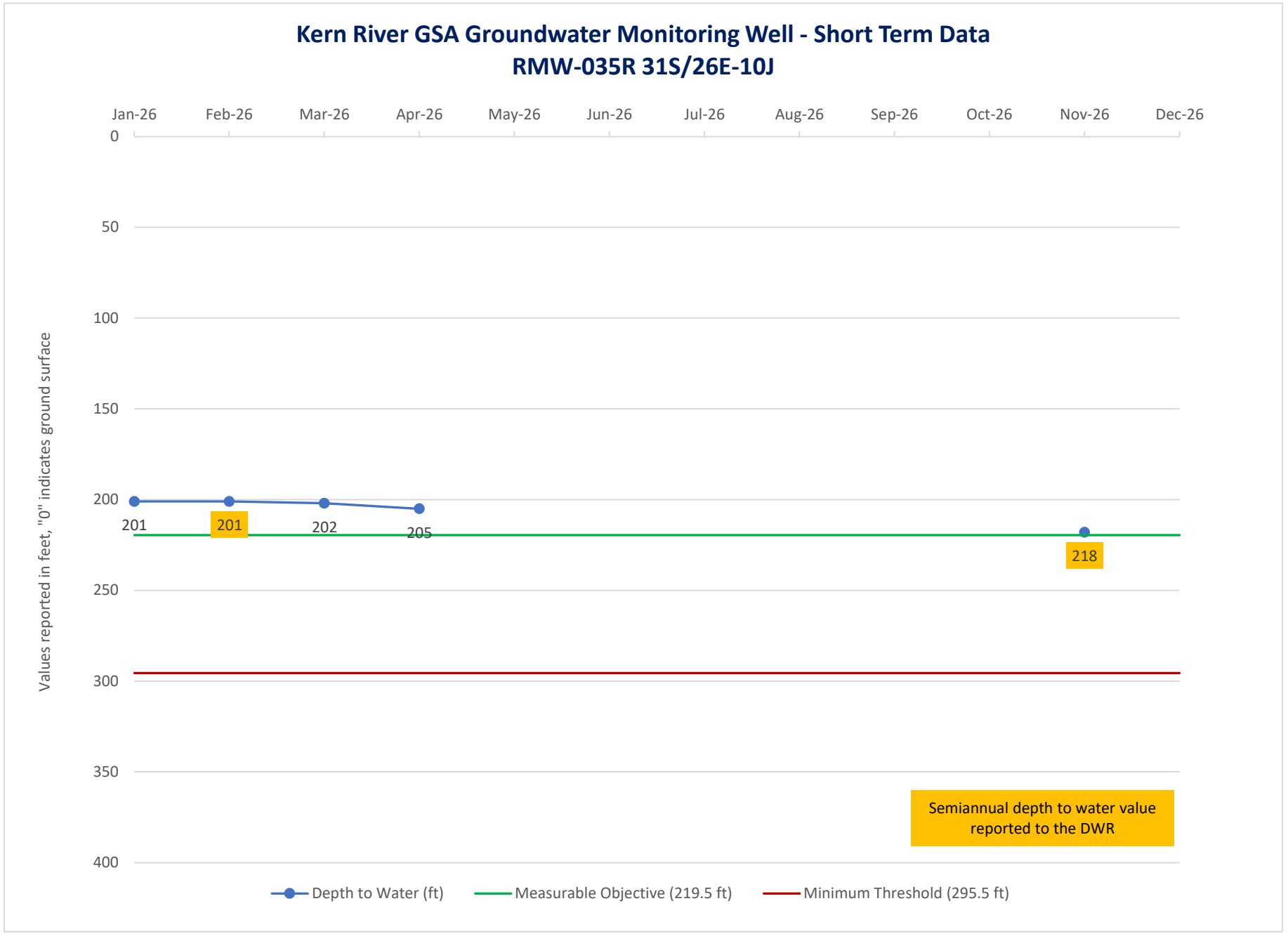
Kern River GSA Groundwater Monitoring Well - Short Term Data
RMW-030 30S/28E-11F



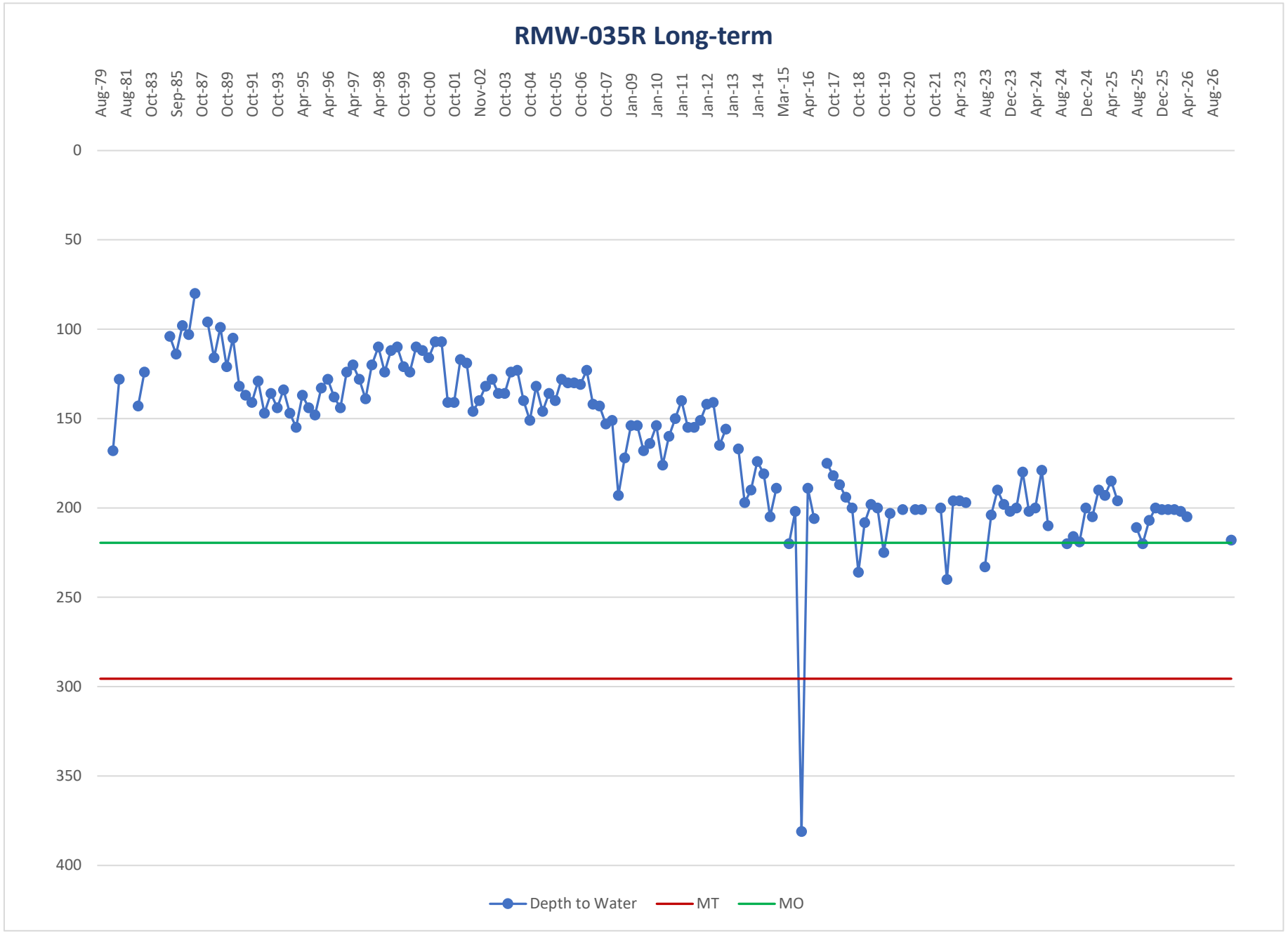
BACK TO MAP


RMW-030 Long-term
Oct-61
Sep-63
Sep-65
Sep-67
Sep-70
Sep-72
Sep-74
Oct-76
Jan-78
Jan-80
Jan-82
Jan-84
Jan-86
Oct-88
Oct-90
Oct-92
Oct-94
Mar-95
Jun-95
Nov-95
Mar-96
Oct-97
Oct-98
Oct-99
Oct-00
Feb-01
Oct-01
Jan-02
Jan-03
Oct-04
Oct-06
Feb-08
Jan-09
Oct-09
Jan-11
Jan-12
Jan-14
Oct-15
Oct-17
Oct-19
Oct-21
Apr-23
Aug-23
Dec-23
Apr-24
Aug-24
Dec-24
Apr-25
Aug-25
Dec-25
Apr-26
Aug-26
0
50
100
150
200
250
300
350
400
Depth to Water
MT
MO

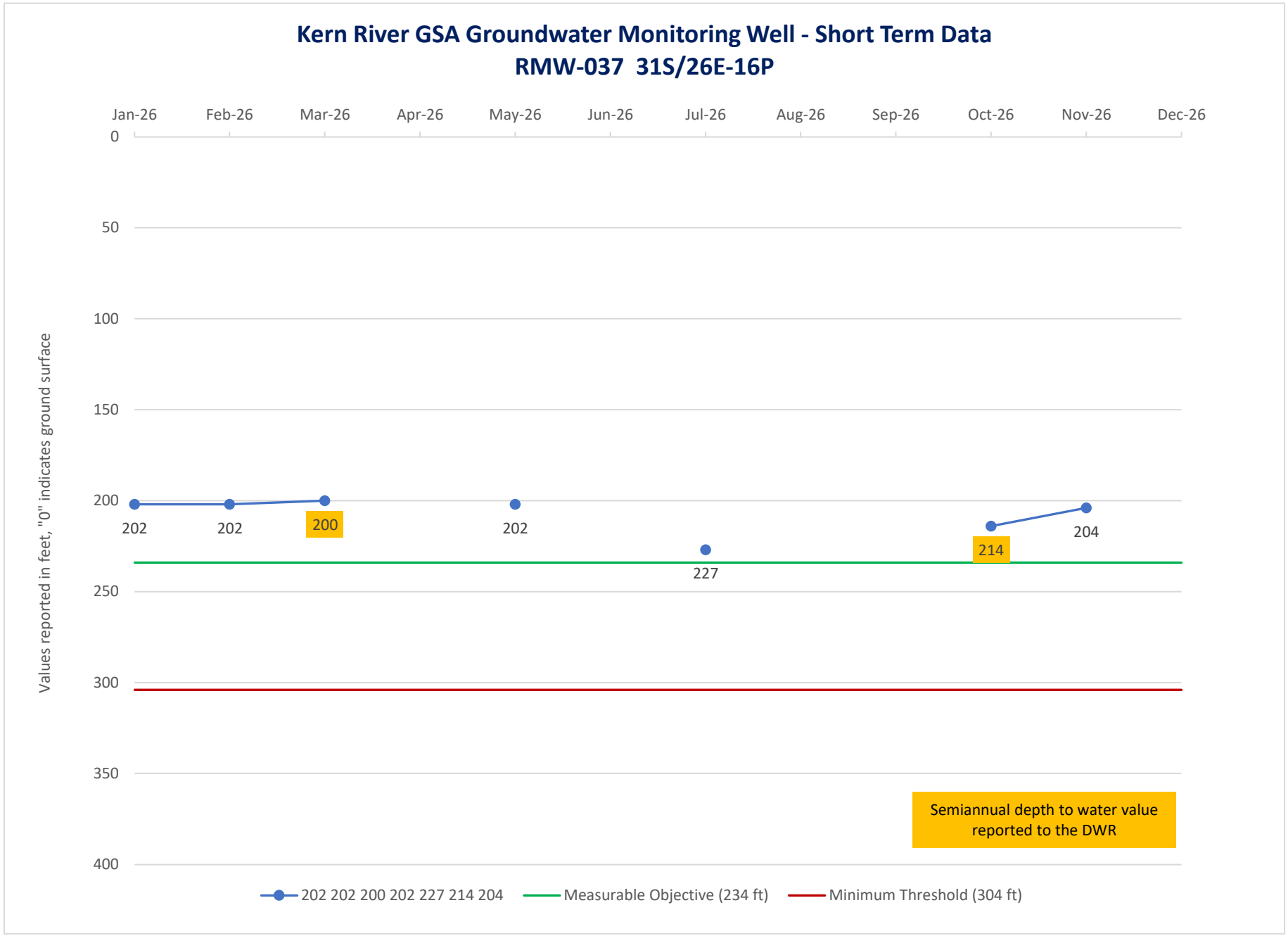
BACK TO MAP


Kern River GSA Groundwater Monitoring Well - Short Term Data
RMW-035R 31S/26E-10J
Jan-26
Feb-26
Mar-26
Apr-26
May-26
Jun-26
Jul-26
Aug-26
Sep-26
Oct-26
Nov-26
Dec-26
0
50
100
150
200
250
300
350
400
Values reported in feet, "0" indicates ground surface
201
201
202
205
218
Semiannual depth to water value reported to the DWR
Depth to Water (ft)
Measurable Objective (219.5 ft)
Minimum Threshold (295.5 ft)

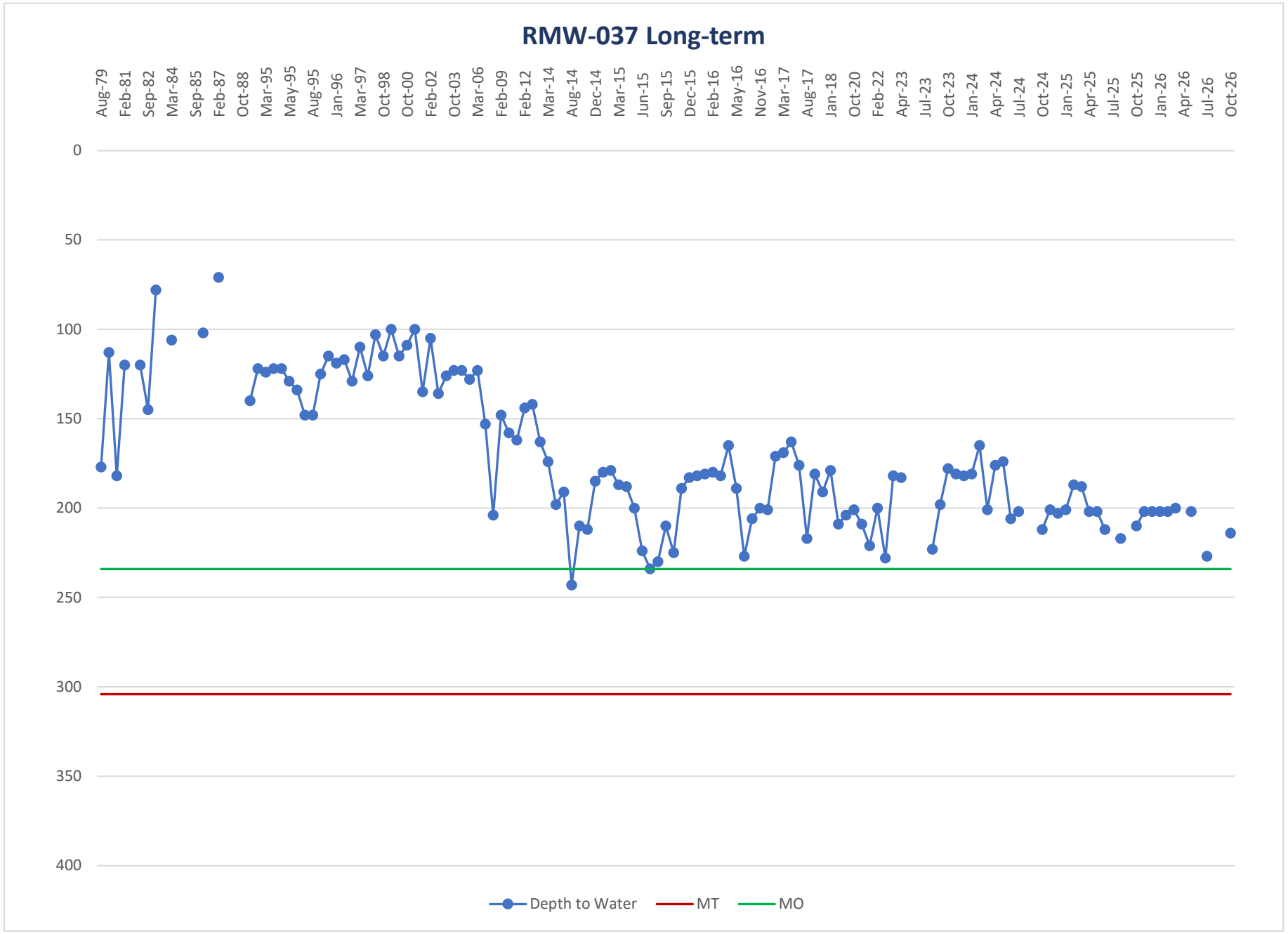
BACK TO MAP


RMW-035R Long-term
Aug-79
Aug-81
Oct-83
Sep-85
Oct-87
Oct-89
Oct-91
Oct-93
Apr-95
Apr-96
Apr-97
Apr-98
Oct-99
Oct-00
Oct-01
Nov-02
Oct-03
Oct-04
Oct-05
Oct-06
Oct-07
Jan-09
Jan-10
Jan-11
Jan-12
Jan-13
Jan-14
Mar-15
Apr-16
Oct-17
Oct-18
Oct-19
Oct-20
Oct-21
Apr-23
Aug-23
Dec-23
Apr-24
Aug-24
Dec-24
Apr-25
Aug-25
Dec-25
Apr-26
Aug-26
0
50
100
150
200
250
300
350
400
Depth to Water
MT
MO

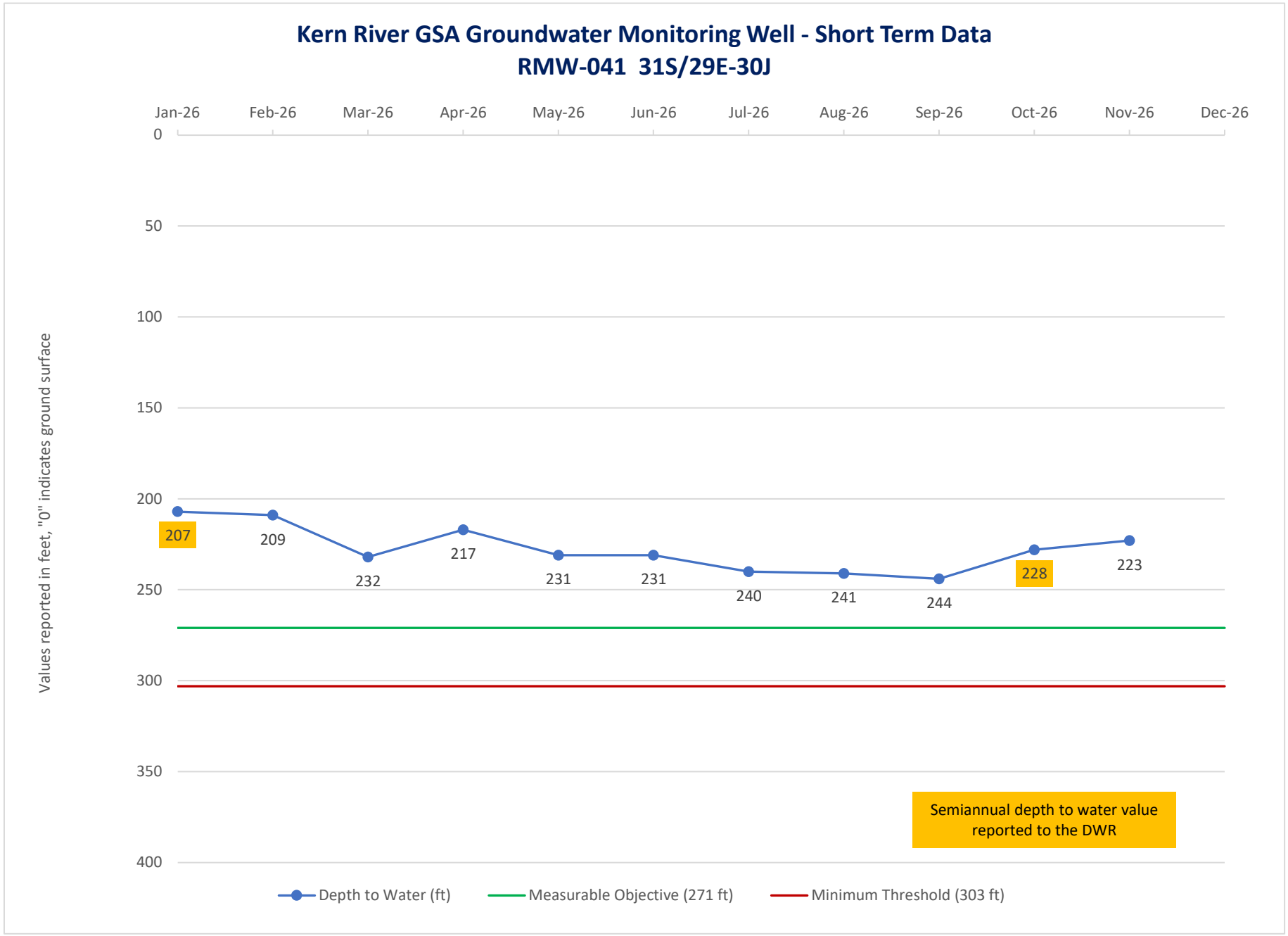
BACK TO MAP


Kern River GSA Groundwater Monitoring Well - Short Term Data
RMW-037 31S/26E-16P
Jan-26
Feb-26
Mar-26
Apr-26
May-26
Jun-26
Jul-26
Aug-26
Sep-26
Oct-26
Nov-26
Dec-26
0
50
100
150
200
250
300
350
400
Values reported in feet, "0" indicates ground surface
202
202
200
202
227
214
204
Semiannual depth to water value reported to the DWR
202 202 200 202 227 214 204
Measurable Objective (234 ft)
Minimum Threshold (304 ft)

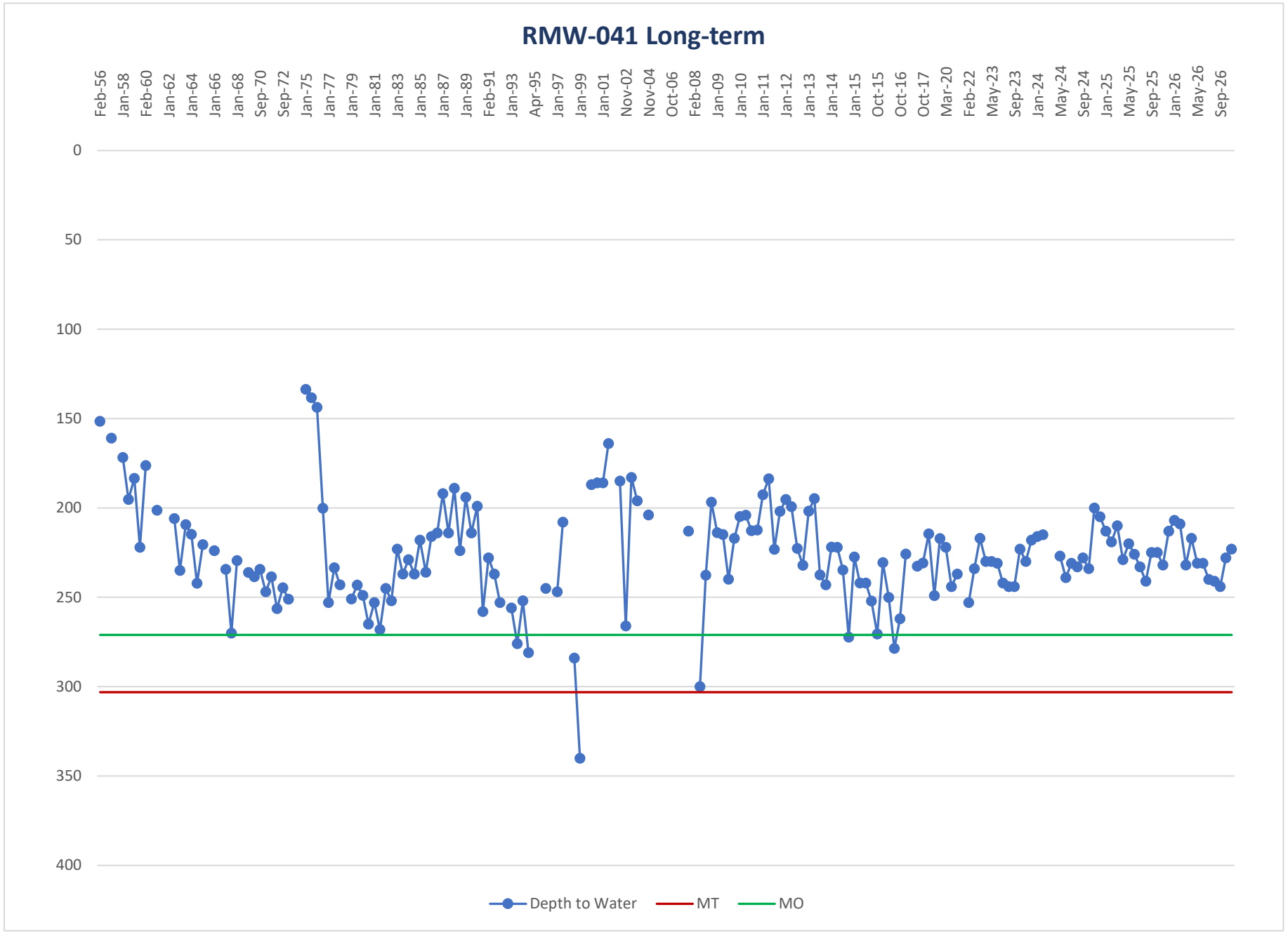
BACK TO MAP


RMW-037 Long-term
Aug-79
Feb-81
Sep-82
Mar-84
Sep-85
Feb-87
Oct-88
Mar-95
May-95
Aug-95
Jan-96
Mar-97
Oct-98
Oct-00
Feb-02
Oct-03
Mar-06
Feb-09
Feb-12
Mar-14
Aug-14
Dec-14
Mar-15
Jun-15
Sep-15
Dec-15
Feb-16
May-16
Nov-16
Mar-17
Aug-17
Jan-18
Oct-20
Feb-22
Apr-23
Jul-23
Oct-23
Jan-24
Apr-24
Jul-24
Oct-24
Jan-25
Apr-25
Jul-25
Oct-25
Jan-26
Apr-26
Jul-26
Oct-26
0
50
100
150
200
250
300
350
400
Depth to Water
MT
MO

BACK TO MAP

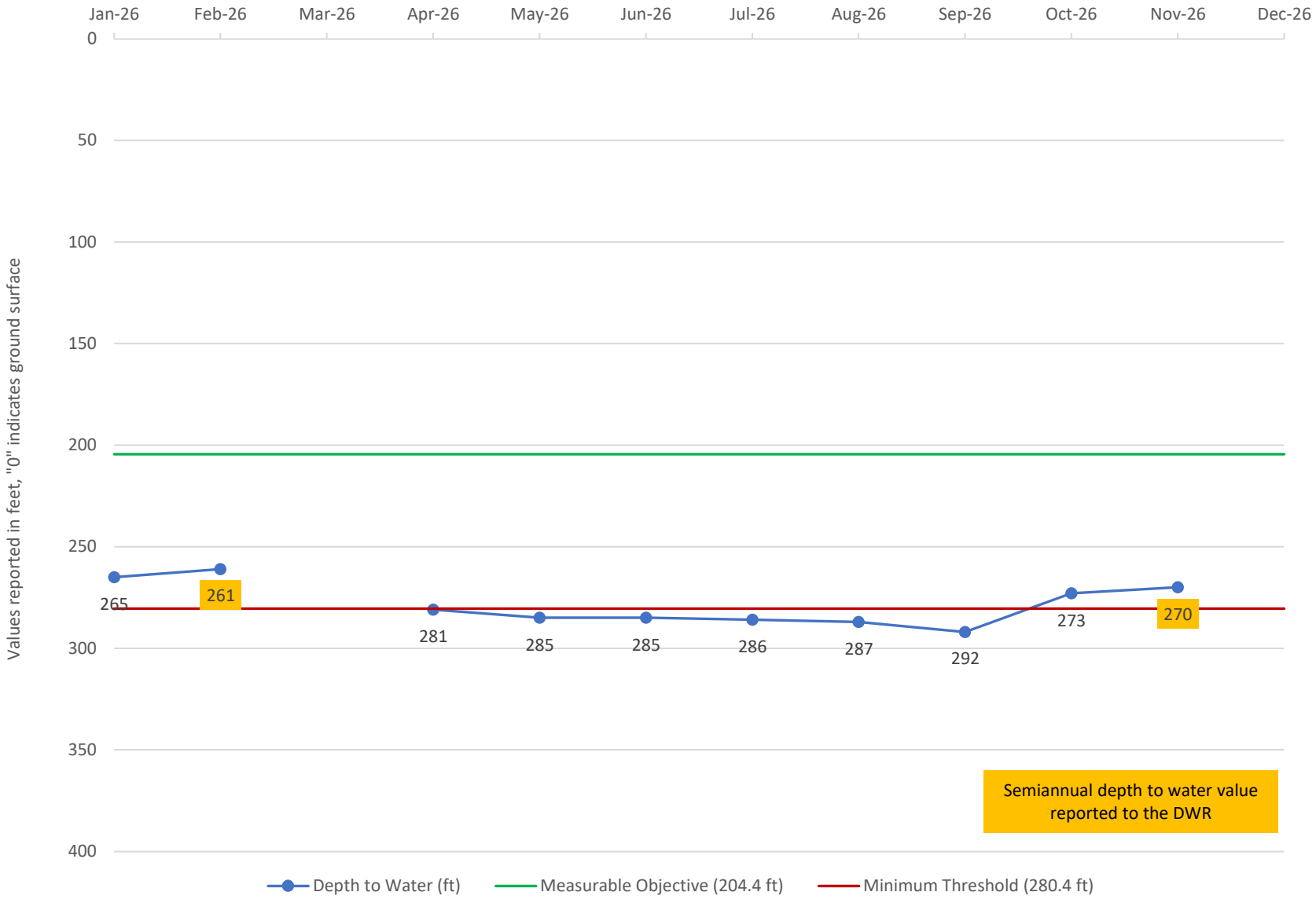

Kern River GSA Groundwater Monitoring Well - Short Term Data
RMW-041 31S/29E-30J
Jan-26
Feb-26
Mar-26
Apr-26
May-26
Jun-26
Jul-26
Aug-26
Sep-26
Oct-26
Nov-26
Dec-26
0
50
100
150
200
250
300
350
400
Values reported in feet, "0" indicates ground surface
207
209
232
217
231
231
240
241
244
228
223
Semiannual depth to water value reported to the DWR
Depth to Water (ft)
Measurable Objective (271 ft)
Minimum Threshold (303 ft)

BACK TO MAP

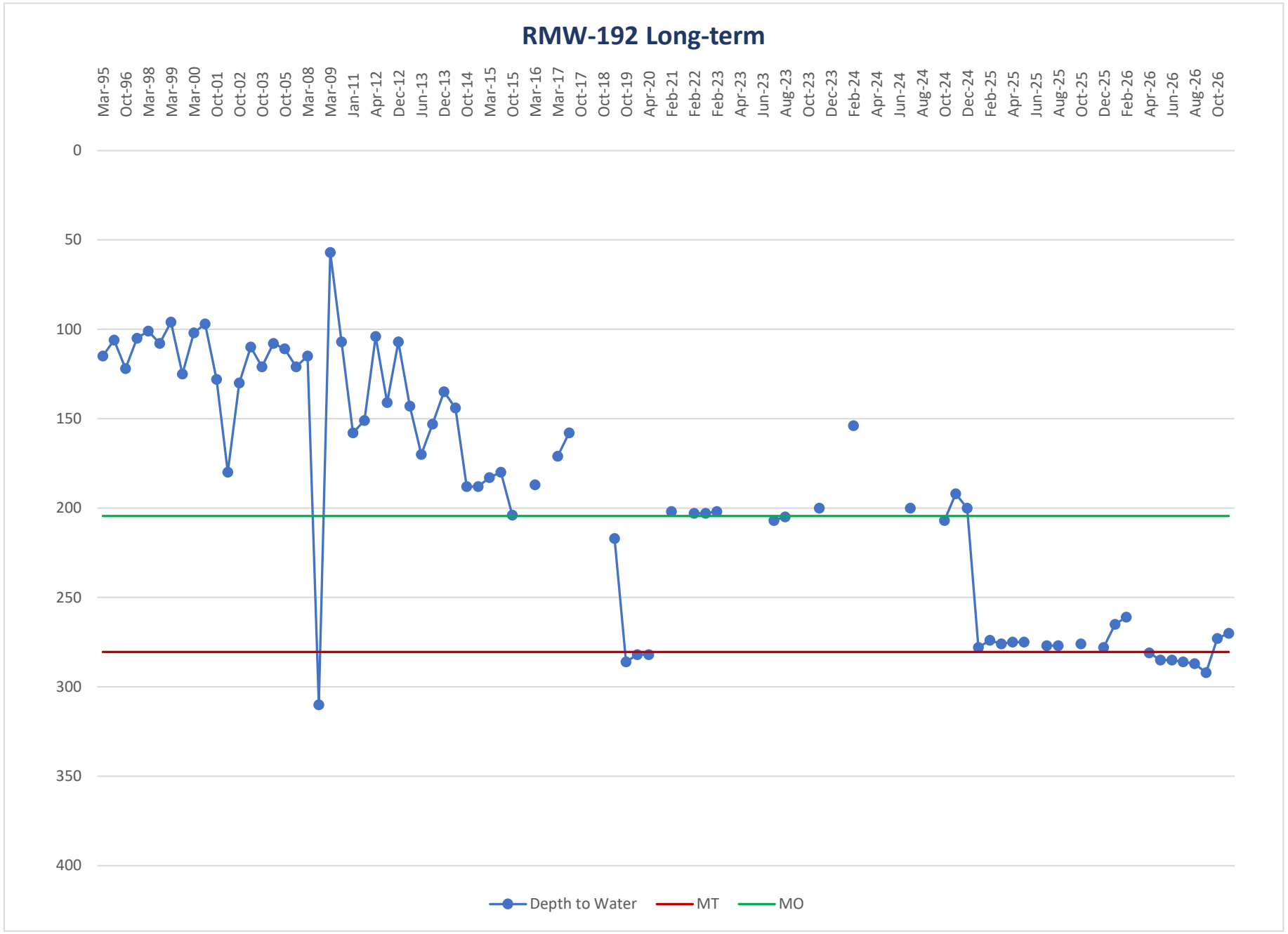

RMW-041 Long-term
Feb-56
Jan-58
Feb-60
Jan-62
Jan-64
Jan-66
Jan-68
Sep-70
Sep-72
Jan-75
Jan-77
Jan-79
Jan-81
Jan-83
Jan-85
Jan-87
Jan-89
Feb-91
Jan-93
Apr-95
Jan-97
Jan-99
Jan-01
Nov-02
Nov-04
Oct-06
Feb-08
Jan-09
Jan-10
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Oct-15
Oct-16
Oct-17
Mar-20
Feb-22
May-23
Sep-23
Jan-24
May-24
Sep-24
Jan-25
May-25
Sep-25
Jan-26
May-26
Sep-26
0
50
100
150
200
250
300
350
400
Depth to Water
MT
MO

BACK TO MAP

Kern River GSA Groundwater Monitoring Well - Short Term Data
RMW-192 31S/28E-20D



BACK TO MAP


RMW-192 Long-term
Mar-95
Oct-96
Mar-98
Mar-99
Mar-00
Oct-01
Oct-02
Oct-03
Oct-05
Mar-08
Mar-09
Jan-11
Apr-12
Dec-12
Jun-13
Dec-13
Oct-14
Mar-15
Oct-15
Mar-16
Mar-17
Oct-17
Oct-18
Oct-19
Apr-20
Feb-21
Feb-22
Feb-23
Apr-23
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Jun-24
Aug-24
Oct-24
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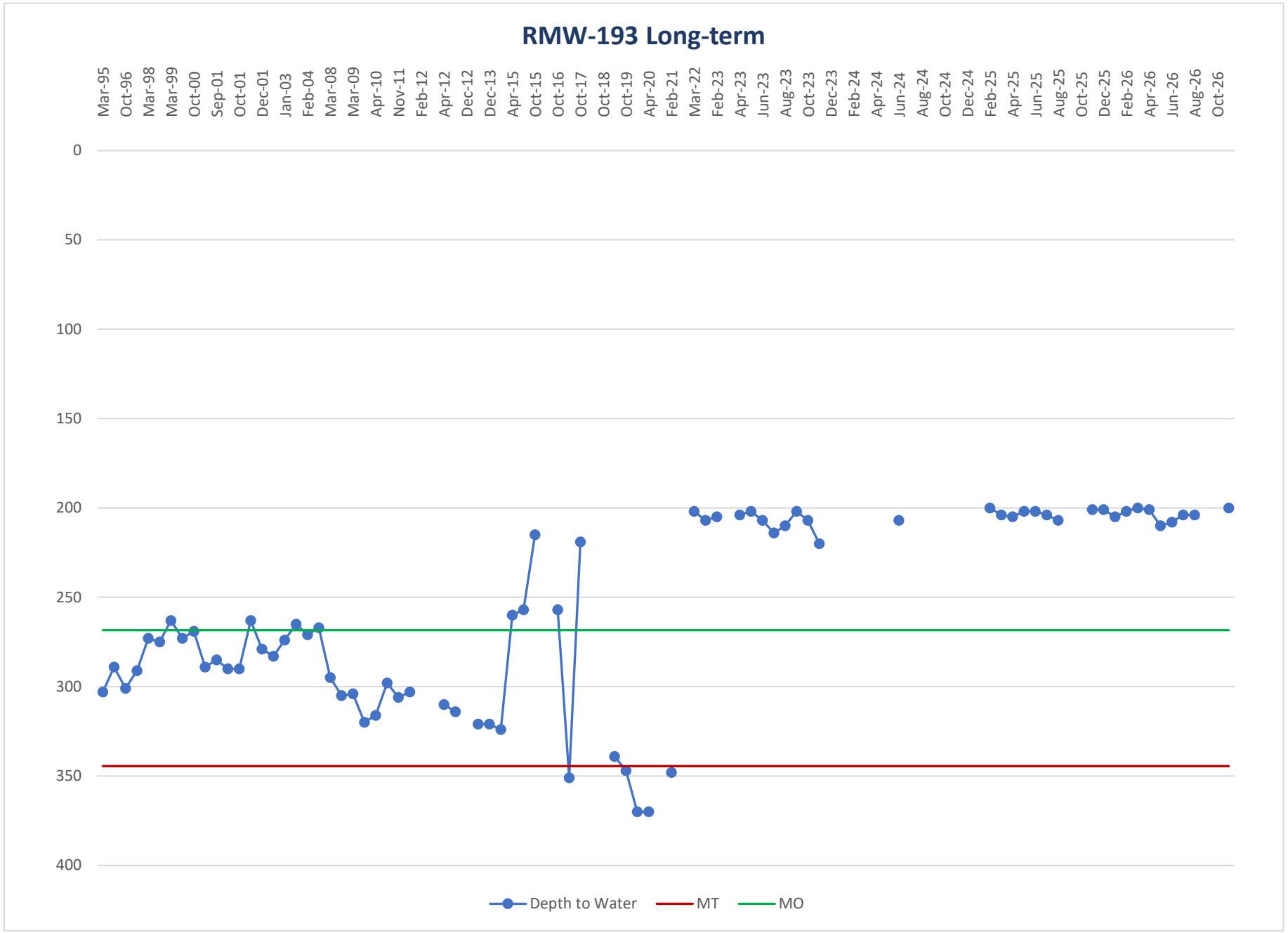
Apr-25
Jun-25
Aug-25
Oct-25
Dec-25
Feb-26
Apr-26
Jun-26
Aug-26
Oct-26
0
50
100
150
200
250
300
350
400
Depth to Water
MT
MO

BACK TO MAP

Kern River GSA Groundwater Monitoring Well - Short Term Data
RMW-193 31S/29E-28C



BACK TO MAP


RMW-193 Long-term
Mar-95
Oct-96
Mar-98
Mar-99
Oct-00
Sep-01
Oct-01
Dec-01
Jan-03
Feb-04
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Mar-09
Apr-10
Nov-11
Feb-12
Apr-12
Dec-12
Dec-13
Apr-15
Oct-15
Oct-16
Oct-17
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Jun-24
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Jun-25
Aug-25
Oct-25
Dec-25
Feb-26
Apr-26
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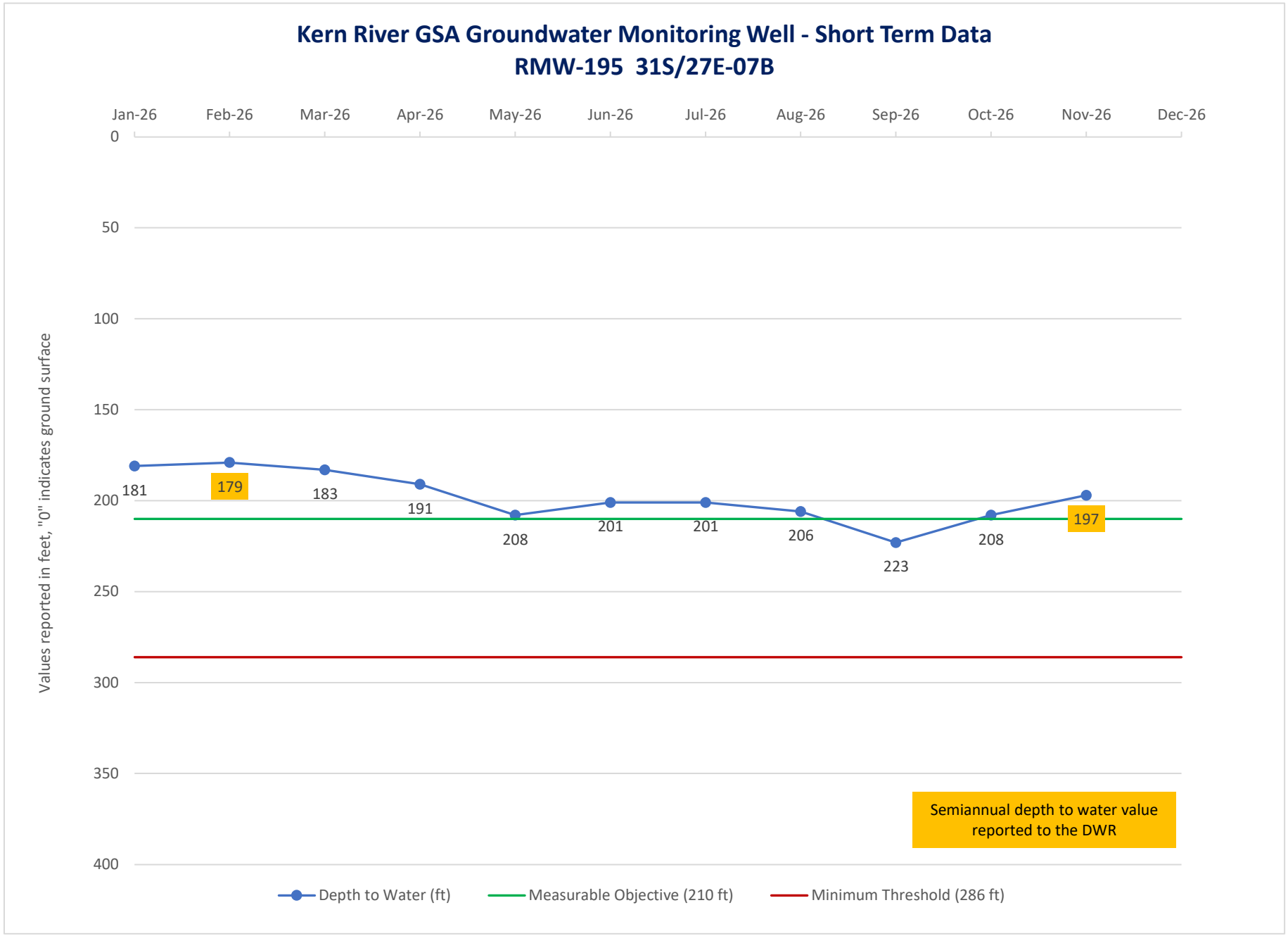
Aug-26
Oct-26
0
50
100
150
200
250
300
350
400
Depth to Water
MT
MO

BACK TO MAP


Kern River GSA Groundwater Monitoring Well - Short Term Data
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Apr-26
May-26
Jun-26
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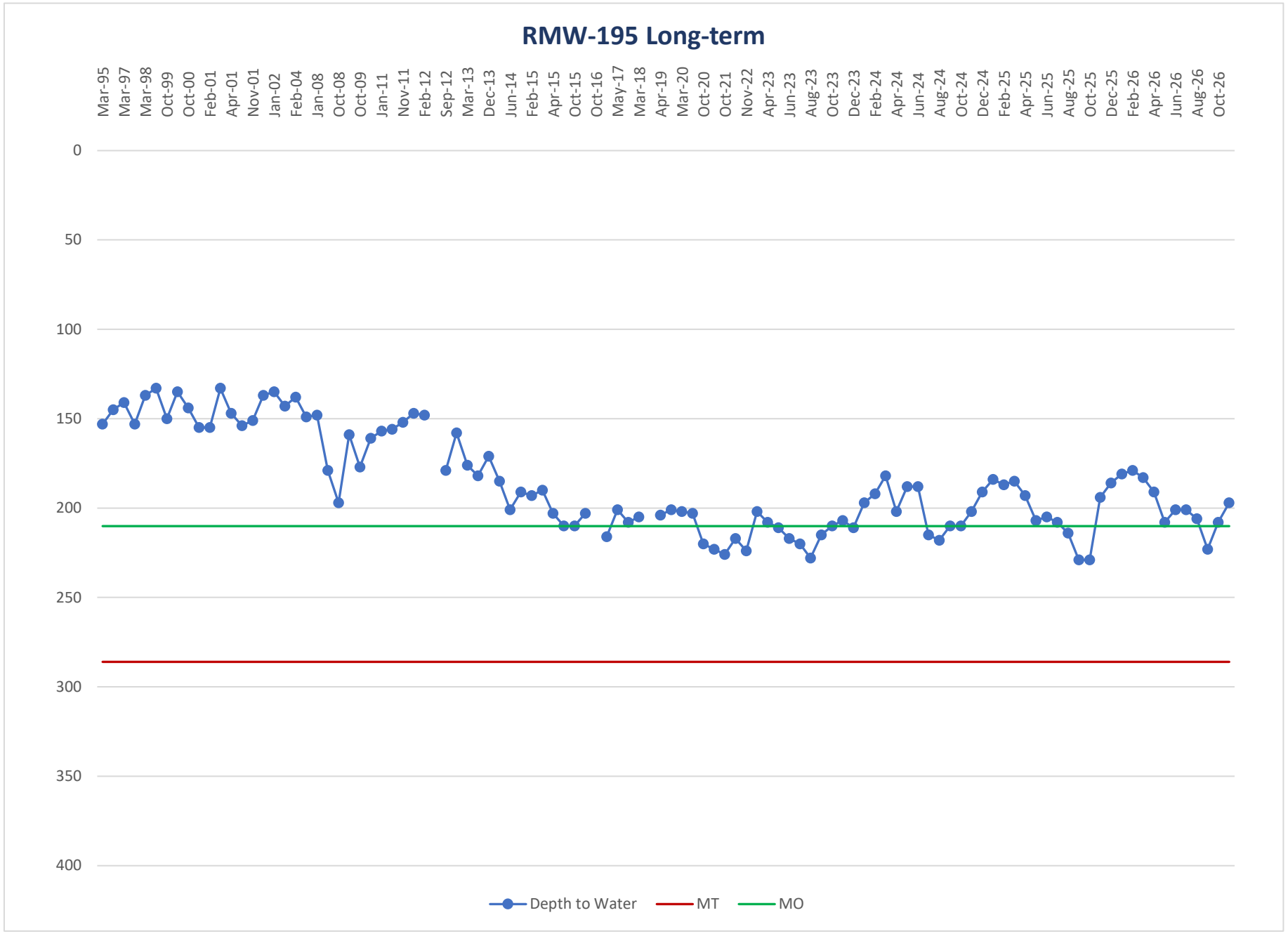
Aug-26
Sep-26
Oct-26
Nov-26
Dec-26
0
50
100
150
200
250
300
350
400
Values reported in feet, "0" indicates ground surface
181
179
183
191
208
201
201
206
223
208
197
Semiannual depth to water value reported to the DWR
Depth to Water (ft)
Measurable Objective (210 ft)
Minimum Threshold (286 ft)

BACK TO MAP


RMW-195 Long-term
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Mar-97
Mar-98
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Nov-01
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Oct-09
Jan-11
Nov-11
Feb-12
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Mar-13
Dec-13
Jun-14
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Feb-24
Apr-24
Jun-24
Aug-24
Oct-24
Dec-24
Feb-25
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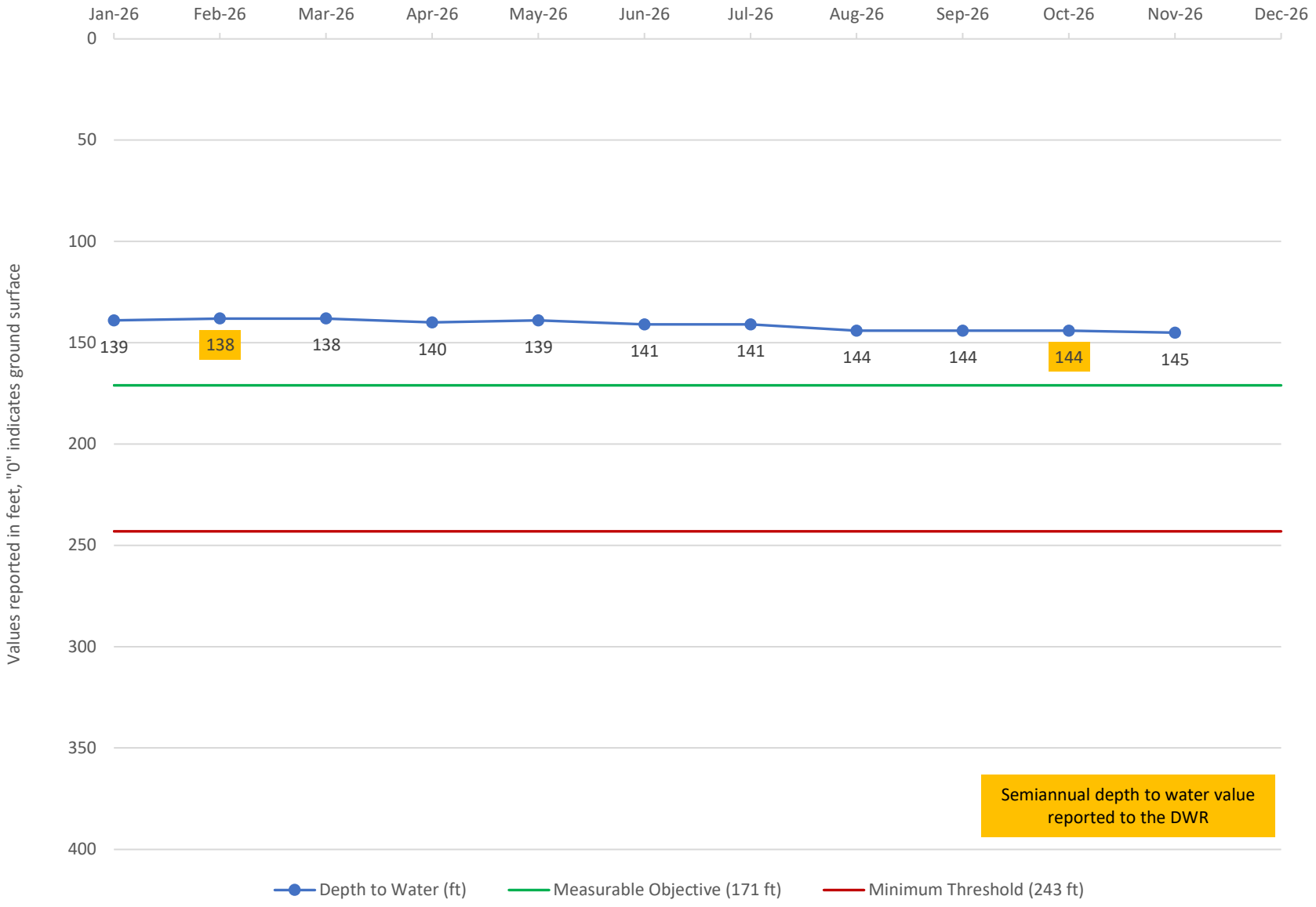
Jun-25
Aug-25
Oct-25
Dec-25
Feb-26
Apr-26
Jun-26
Aug-26
Oct-26
0
50
100
150
200
250
300
350
400
Depth to Water
MT
MO

BACK TO MAP

Kern River GSA Groundwater Monitoring Well - Short Term Data
RMW-196 31S/27E-12Q



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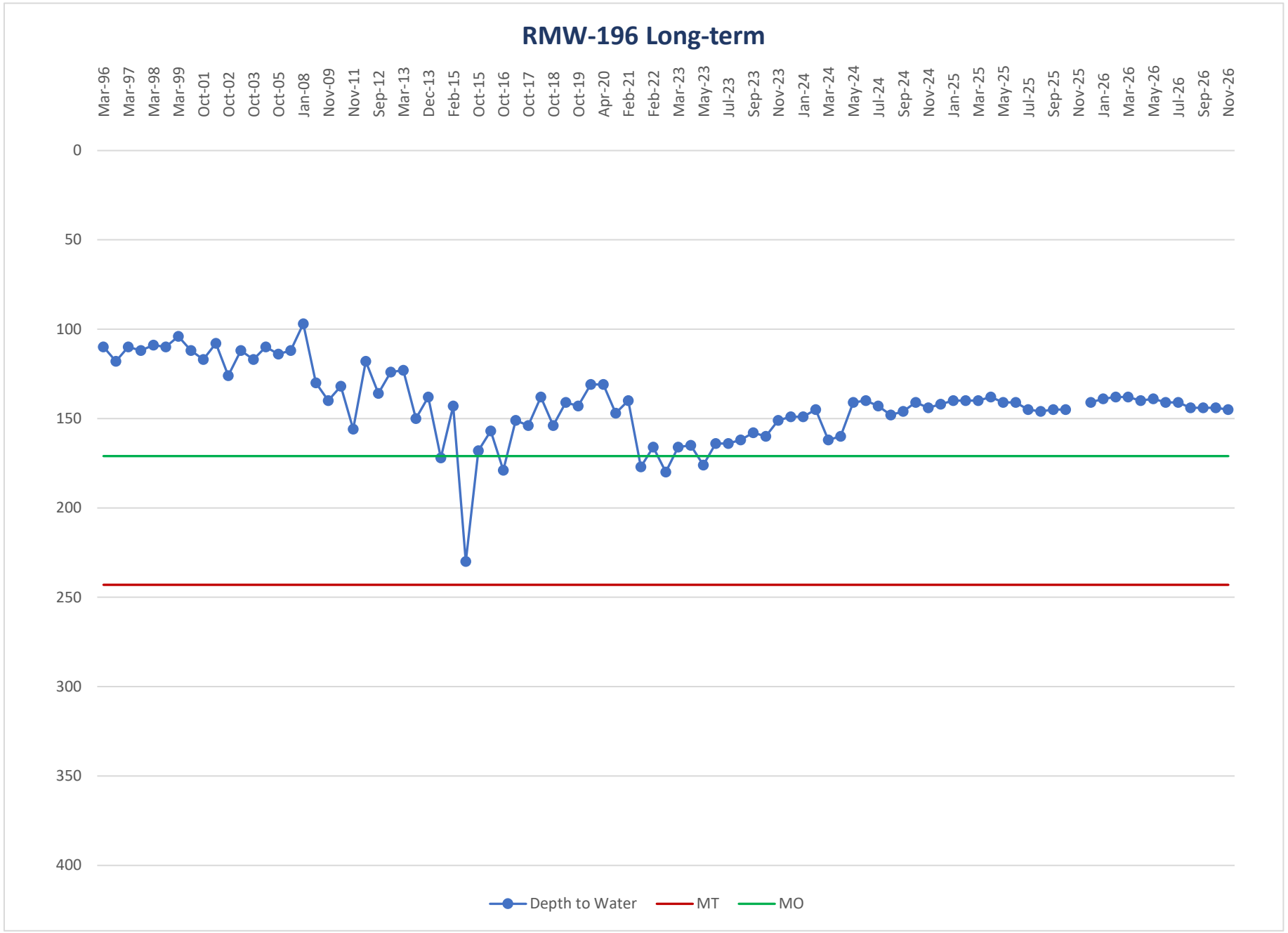
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Mar-97
Mar-98
Mar-99
Oct-01
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Oct-05
Jan-08
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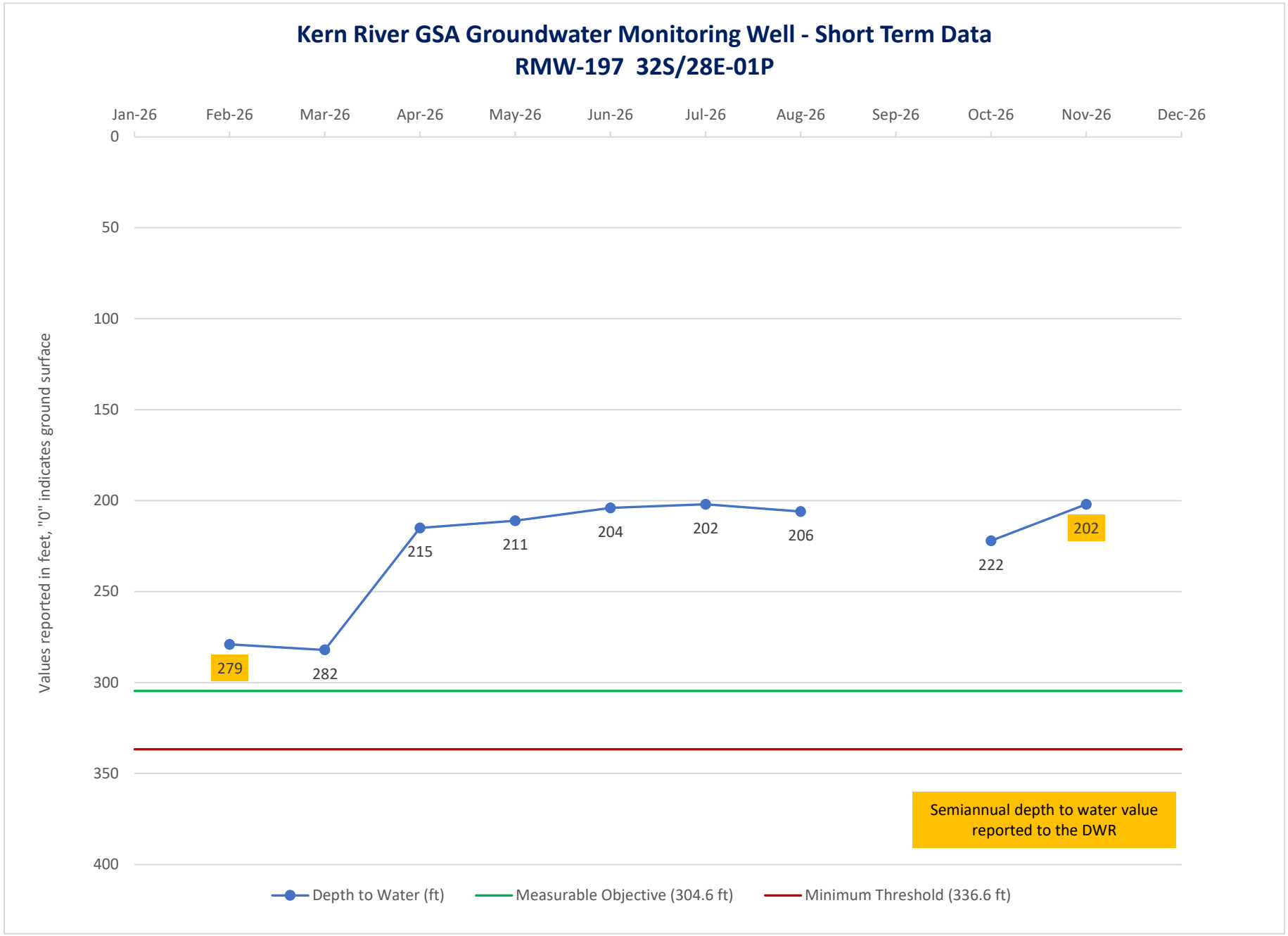
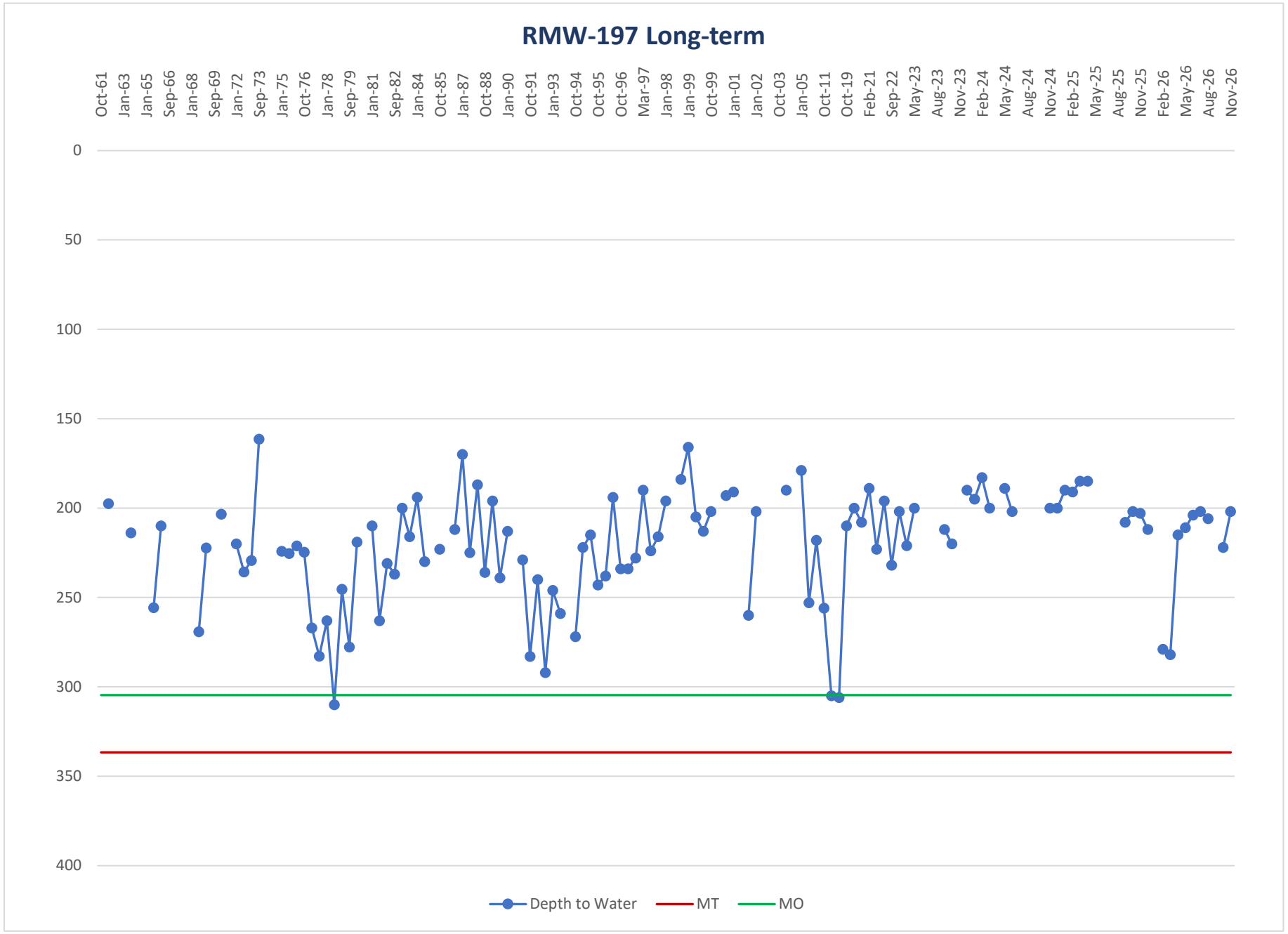
Sep-12
Mar-13
Dec-13
Feb-15
Oct-15
Oct-16
Oct-17
Oct-18
Oct-19
Apr-20
Feb-21
Feb-22
Mar-23
May-23
Jul-23
Sep-23
Nov-23
Jan-24
Mar-24
May-24
Jul-24
Sep-24
Nov-24
Jan-25
Mar-25
May-25
Jul-25
Sep-25
Nov-25
Jan-26
Mar-26
May-26
Jul-26
Sep-26
Nov-26
0
50
100
150
200
250
300
350
400
Depth to Water
MT
MO

BACK TO MAP


Kern River GSA Groundwater Monitoring Well - Short Term Data
RMW-197 32S/28E-01P
Jan-26
Feb-26
Mar-26
Apr-26
May-26
Jun-26
Jul-26
Aug-26
Sep-26
Oct-26
Nov-26
Dec-26
0
50
100
150
200
250
300
350
400
Values reported in feet, "0" indicates ground surface
279
282
215
211
204
202
206
222
202
Semiannual depth to water value reported to the DWR
Depth to Water (ft)
Measurable Objective (304.6 ft)
Minimum Threshold (336.6 ft)

BACK TO MAP


RMW-197 Long-term
Oct-61
Jan-63
Jan-65
Sep-66
Jan-68
Sep-69
Jan-72
Sep-73
Jan-75
Oct-76
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Sep-79
Jan-81
Sep-82
Jan-84
Oct-85
Jan-87
Oct-88
Jan-90
Oct-91
Jan-93
Oct-94
Oct-95
Oct-96
Mar-97
Jan-98
Jan-99
Oct-99
Jan-01
Jan-02
Oct-03
Jan-05
Oct-11
Oct-19
Feb-21
Sep-22
May-23
Aug-23
Nov-23
Feb-24
May-24
Aug-24
Nov-24
Feb-25
May-25
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Nov-25
Feb-26
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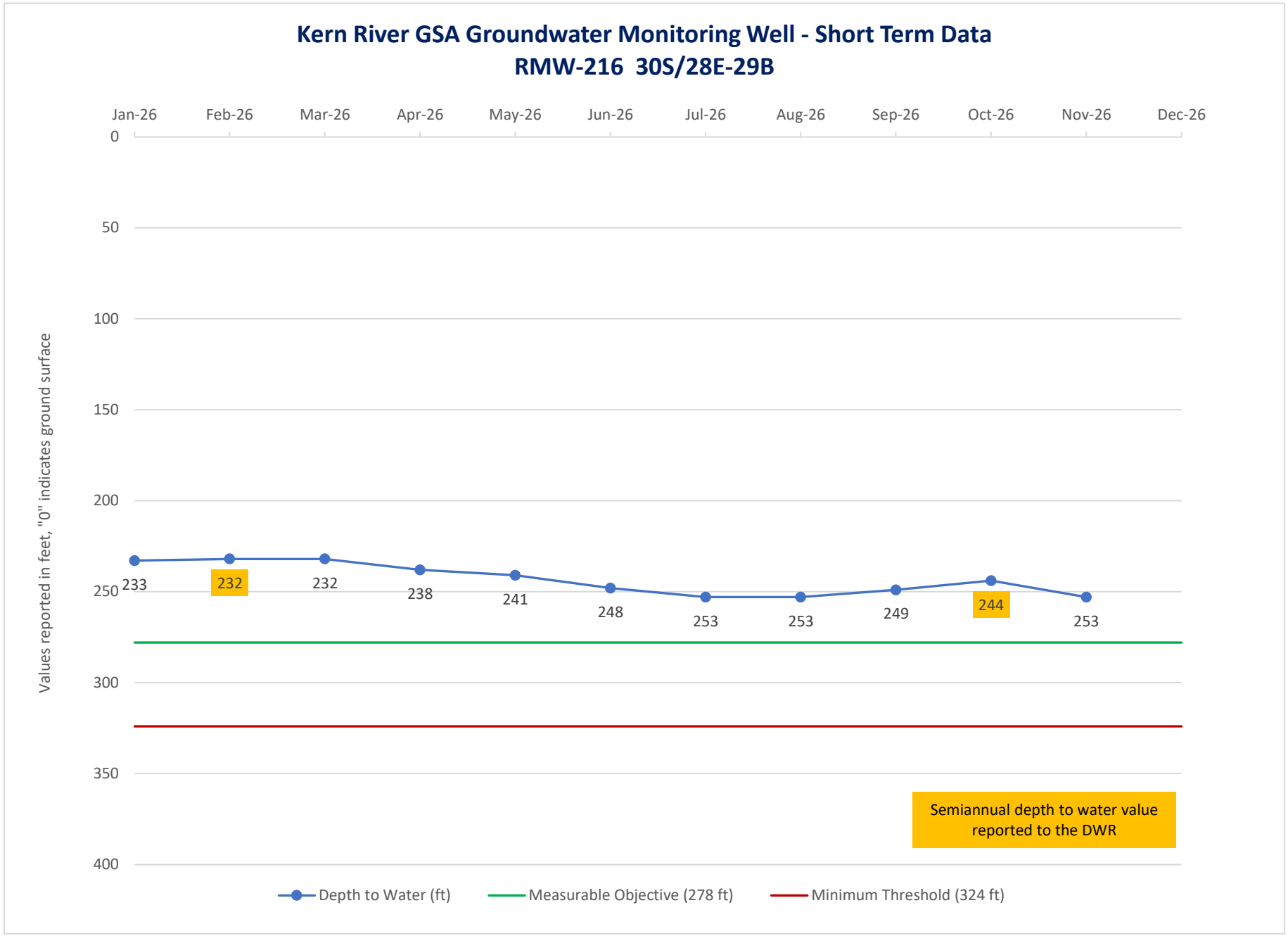
Aug-26
Nov-26
0
50
100
150
200
250
300
350
400
Depth to Water
MT
MO

BACK TO MAP


Kern River GSA Groundwater Monitoring Well - Short Term Data
RMW-216 30S/28E-29B
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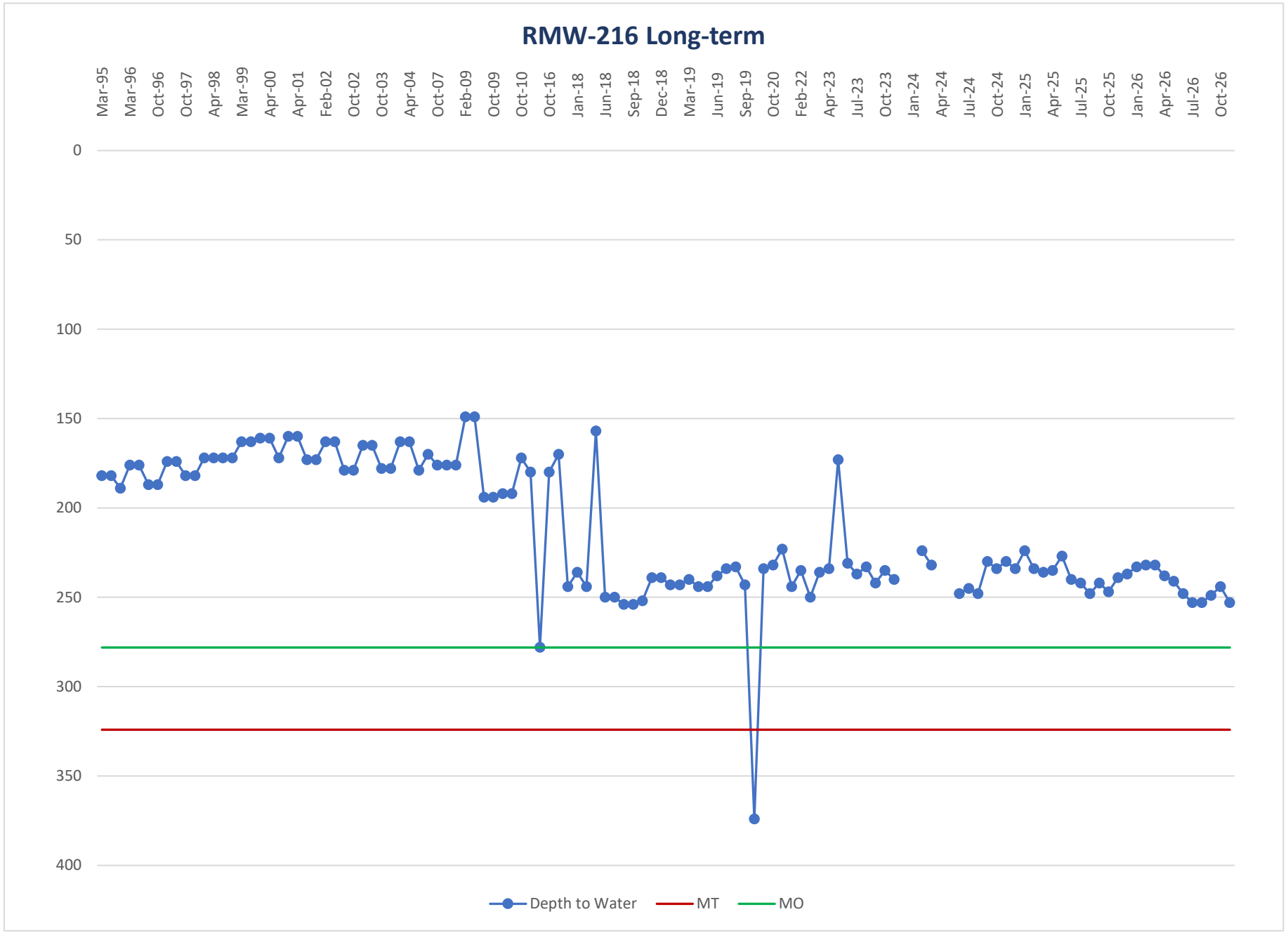
Feb-26
Mar-26
Apr-26
May-26
Jun-26
Jul-26
Aug-26
Sep-26
Oct-26
Nov-26
Dec-26
0
50
100
150
200
250
300
350
400
Values reported in feet, "0" indicates ground surface
233
232
232
238
241
248
253
253
249
244
253
Semiannual depth to water value reported to the DWR
Depth to Water (ft)
Measurable Objective (278 ft)
Minimum Threshold (324 ft)

BACK TO MAP


RMW-216 Long-term
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Mar-96
Oct-96
Oct-97
Apr-98
Mar-99
Apr-00
Apr-01
Feb-02
Oct-02
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Apr-04
Oct-07
Feb-09
Oct-09
Oct-10
Oct-16
Jan-18
Jun-18
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Dec-18
Mar-19
Jun-19
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Oct-20
Feb-22
Apr-23
Jul-23
Oct-23
Jan-24
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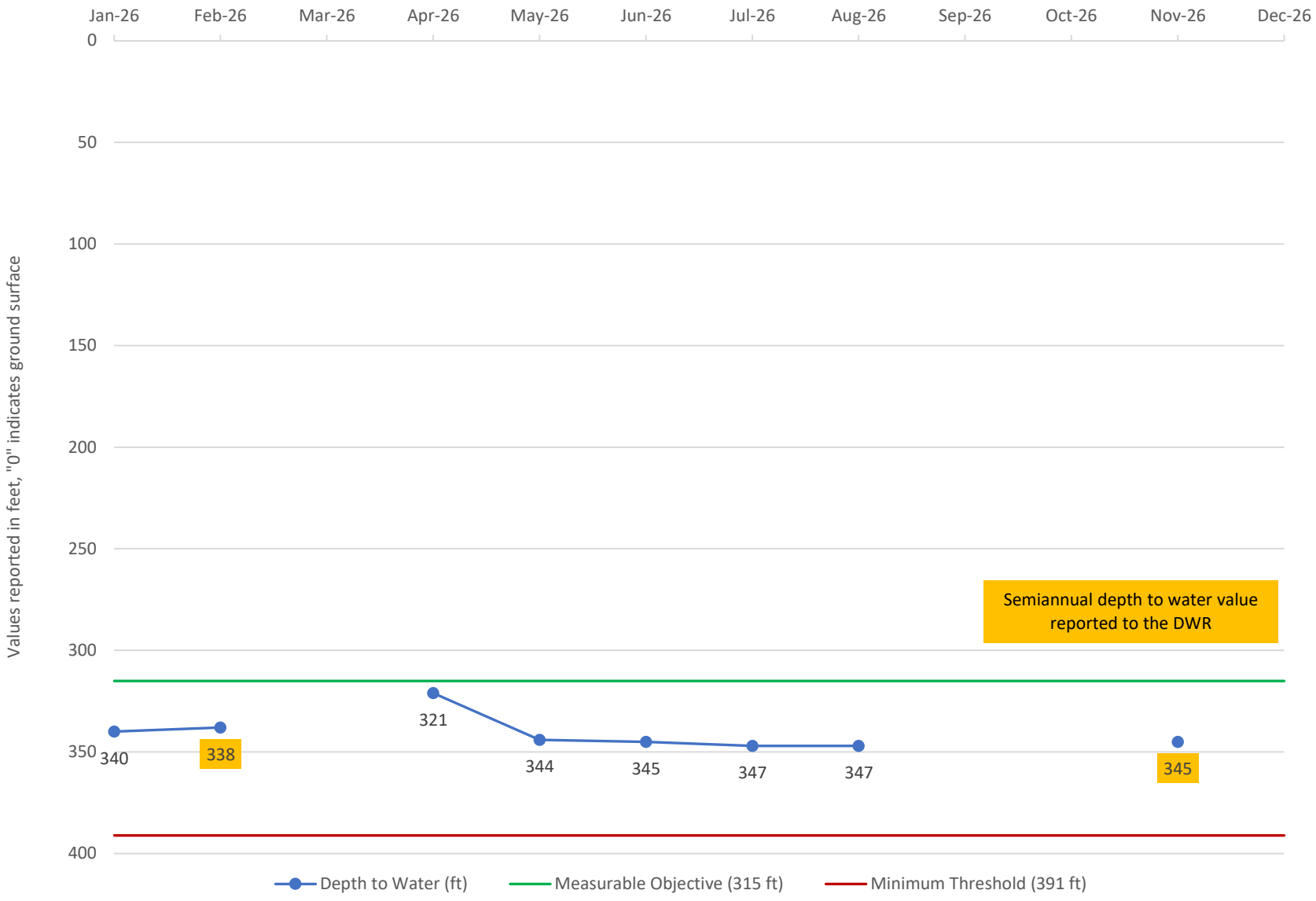
Jan-25
Apr-25
Jul-25
Oct-25
Jan-26
Apr-26
Jul-26
Oct-26
0
50
100
150
200
250
300
350
400
Depth to Water
MT
MO

BACK TO MAP

Kern River GSA Groundwater Monitoring Well - Short Term Data
RMW-217 30S/29E-31C



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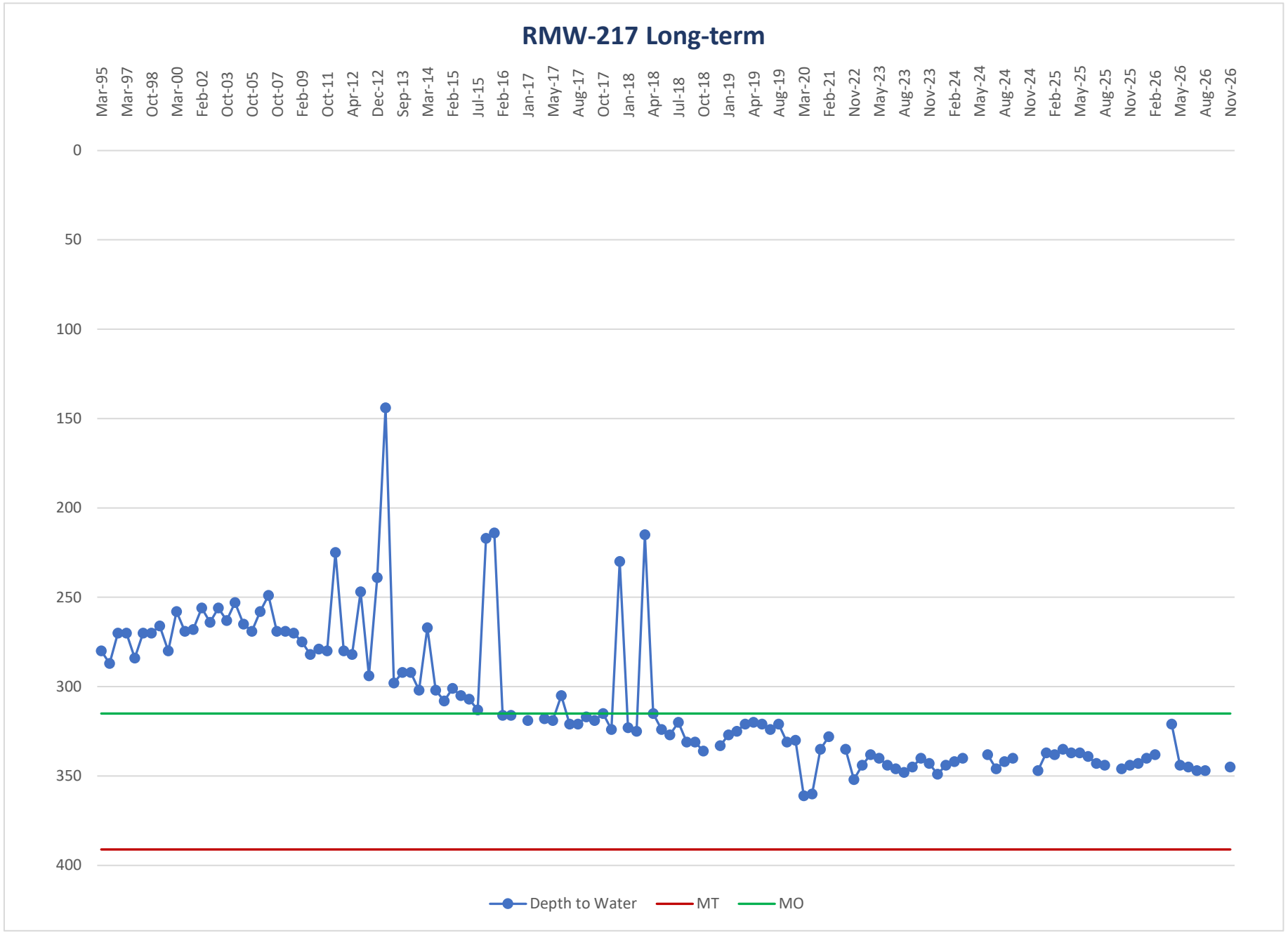
RMW-217 Long-term
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Mar-97
Oct-98
Mar-00
Feb-02
Oct-03
Oct-05
Oct-07
Feb-09
Oct-11
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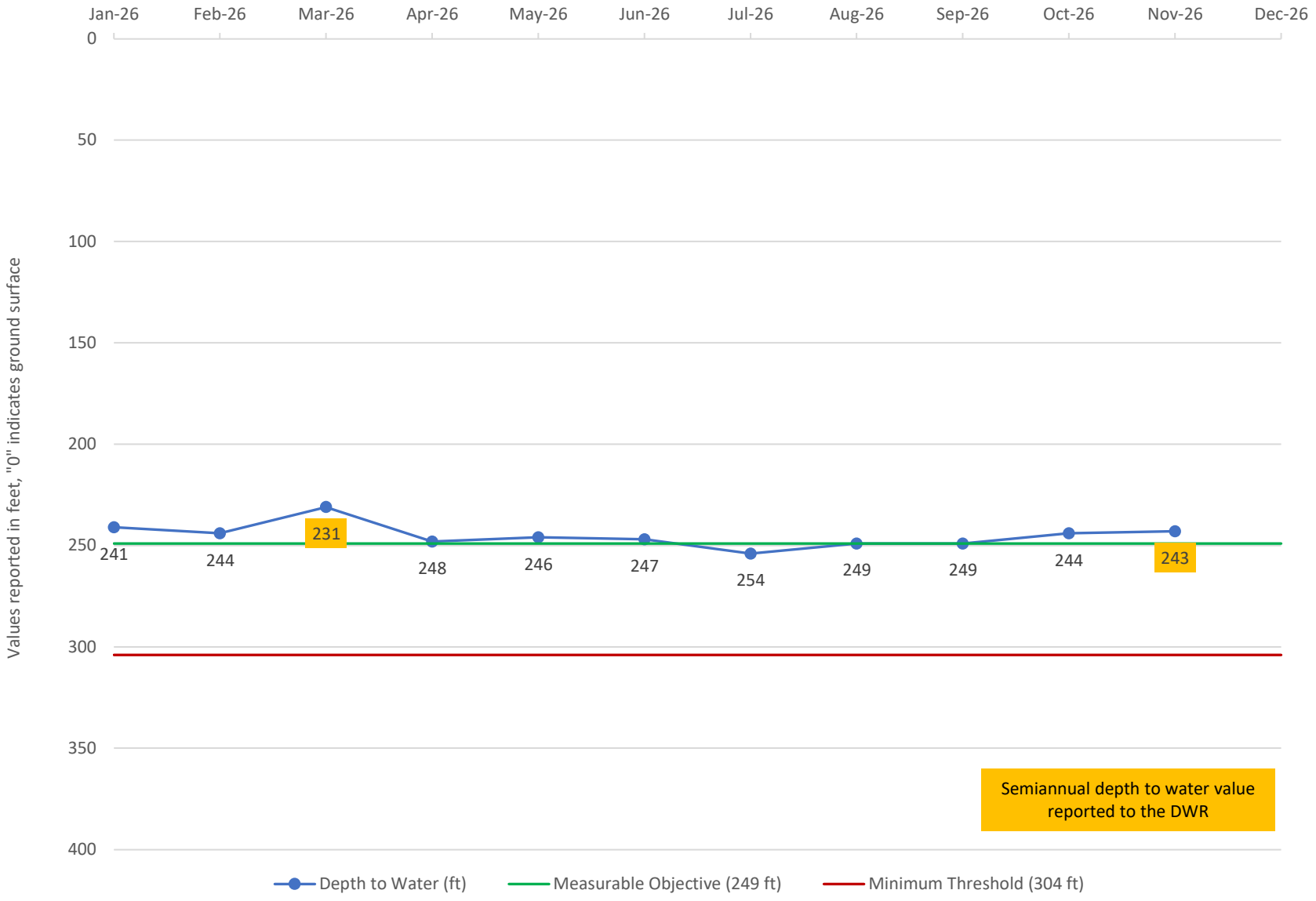
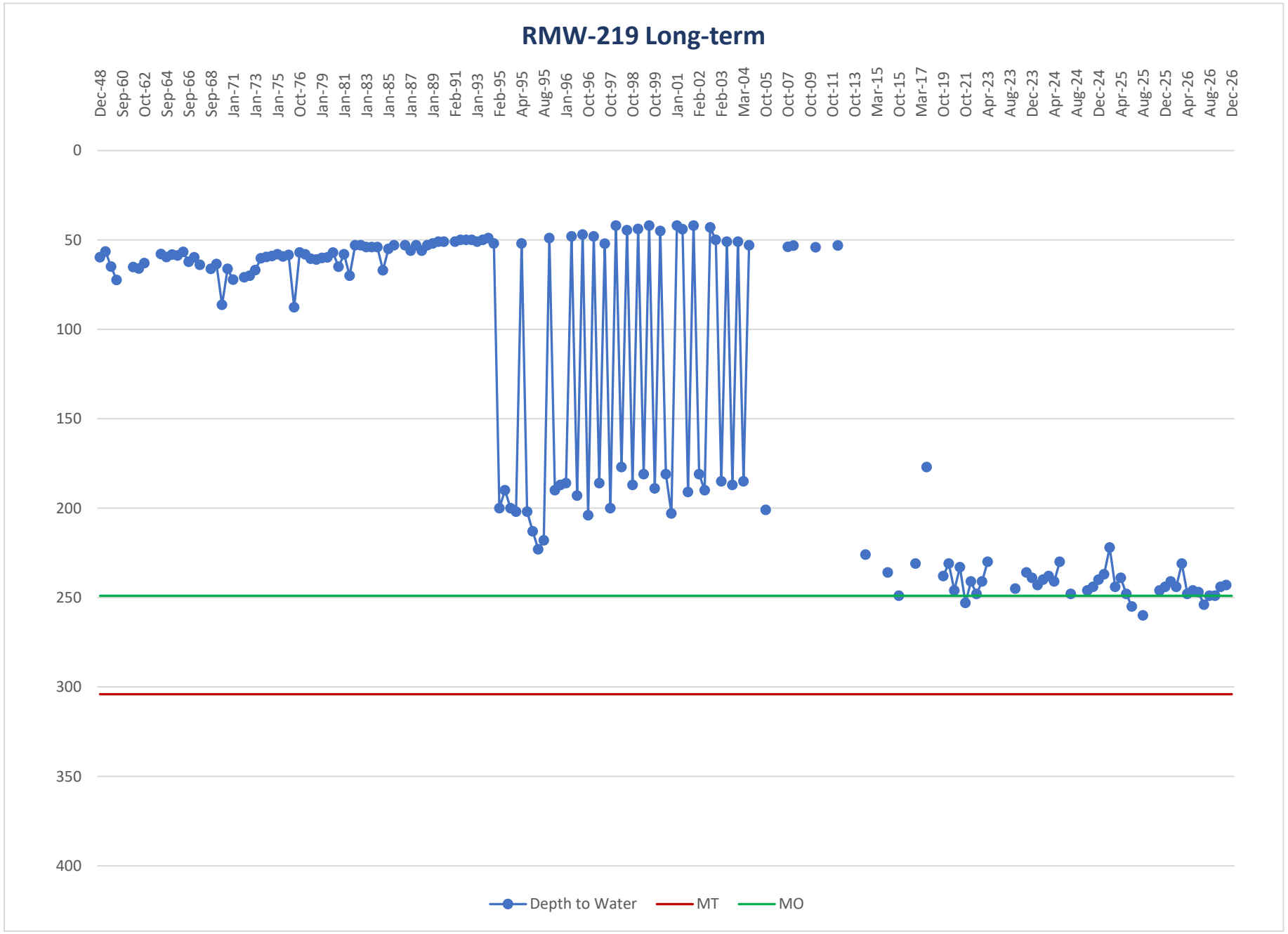
Dec-12
Sep-13
Mar-14
Feb-15
Jul-15
Feb-16
Jan-17
May-17
Aug-17
Oct-17
Jan-18
Apr-18
Jul-18
Oct-18
Jan-19
Apr-19
Aug-19
Mar-20
Feb-21
Nov-22
May-23
Aug-23
Nov-23
Feb-24
May-24
Aug-24
Nov-24
Feb-25
May-25
Aug-25
Nov-25
Feb-26
May-26
Aug-26
Nov-26
0
50
100
150
200
250
300
350
400
Depth to Water
MT
MO

BACK TO MAP

Kern River GSA Groundwater Monitoring Well - Short Term Data
RMW-219 31S/28E-14D



BACK TO MAP


RMW-219 Long-term
Dec-48
Sep-60
Oct-62
Sep-64
Sep-66
Sep-68
Jan-71
Jan-73
Jan-75
Oct-76
Jan-79
Jan-81
Jan-83
Jan-85
Jan-87
Jan-89
Feb-91
Jan-93
Feb-95
Apr-95
Aug-95
Jan-96
Oct-96
Oct-97
Oct-98
Oct-99
Jan-01
Feb-02
Feb-03
Mar-04
Oct-05
Oct-07
Oct-09
Oct-11
Oct-13
Mar-15
Oct-15
Mar-17
Oct-19
Oct-21
Apr-23
Aug-23
Dec-23
Apr-24
Aug-24
Dec-24
Apr-25
Aug-25
Dec-25
Apr-26
Aug-26
Dec-26
0
50
100
150
200
250
300
350
400
Depth to Water
MT
MO

BACK TO MAP

Tab VI

KERN DELTA
WATER DISTRICT

KERN NON-DISTRICTED LAND AUTHORITY
1518 Mill Rock Way, Suite 100 Bakersfield,CA93311
Phone: (661)595-5514
Email: jenny@kndla.org
Website: www.kndla.org

Groundwater Demand Management program for KNDLA

KNDLA has begun the process of developing a groundwater demand management program on land within its boundary. The purpose is to comply with the Sustainable Groundwater Management Act (SGMA) which requires each groundwater sustainability agency to have programs in place to achieve sustainable groundwater management. KNDLA is committed to developing this program based on the best available information and in compliance with the legal rules and constraints that govern how groundwater is allocated.

What KNDLA has committed to

KNDLA adopted the Kern Subbasin Groundwater Sustainability Plan (GSP), which is currently being reviewed for adequacy by the California Department of Water Resources. The plan commits each groundwater sustainability agency in the subbasin to reduce demand to a sustainable level — with the goal of eliminating overdraft. KNDLA has begun the development of a groundwater management program to comply with this commitment.

Why KNDLA's situation is different

KNDLA represents a groundwater-dependent service area with limited access to alternative supplies. Other agencies in the subbasin may have access to imported surface water, recharge projects, and banking programs. KNDLA's options for controlling overdraft are limited to demand management because the only water supply currently available is groundwater.

KNDLA is a joint powers authority (JPA) comprised of Kern Subbasin Groundwater Sustainability Agencies. In addition to the subbasin GSAs, the KNDLA Board includes two landowner seats, held by landowners in KNDLA's jurisdiction. It is this group that will oversee the development of the groundwater demand management program and the potential adoption of allocation limits.

How decisions will be made

Best available information
Pumping, land use, and water balance data for lands within the KNDLA boundary, updated as better information becomes available.

Legal rules and constraints
State law, the adopted GSP, and the rules that govern how groundwater may be allocated among landowners.

Landowner input
KNDLA is providing opportunities to review and comment on each step in the development of the groundwater management program. We need public input and landowners within the KNDLA to participate and inform this process.

A multi-phase process, started in Spring 2026

Options Analysis- completed, report available now kndla.org

1. Phase 1 is an options analysis that will be used as a foundation for the next steps in evaluating a groundwater allocation policy. As the first phase of a long-term initiative, it identifies potential policy approaches based on feedback from stakeholders and local water agencies, and outlines the next steps needed to develop a groundwater demand management program.
2. **Water Budget Analysis** in process
3. **Develop Groundwater Allocation Policy**
4. **Funding Development**
5. **Groundwater Allocation Implementation**

This notice describes a process that is underway.

KNDLA will continue to share each phase and will notify landowners of meetings and comment periods. For questions, more information or to be added to our email distribution list please contact Jenny Holtermann, Executive Director, at 661-595-5514 or jenny@kndla.org or visit kndla.org

KERN NON-DISTRICTED LAND AUTHORITY

WATER DEMAND AND ACCOUNTING ANALYSIS

NOVEMBER 2026

DRAFT

PREPARED FOR:
KERN NON-DISTRICTED LAND AUTHORITY

PREPARED BY:
PROVOST & PRITCHARD CONSULTING GROUP
455 W. Fir Avenue, Clovis, CA 93611

PROVOST&
PRITCHARD

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APPENDICES

Appendix A – Land Use Maps
Appendix B – Water Demands by Hydrogeologic Conceptual Model Areas
Appendix C – Effective Precipitation Calculations

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ABBREVIATIONS

AF ..... acre-feet
BVARA ..... Buena Vista Aquatic Recreational Area
BVWSD ..... Buena Vista Water Storage District
CalGem ..... California Department of Conservation: Geologic Energy Management Division
CIMIS ..... California Irrigation Management Information System
DMS ..... Data Management System
DWR ..... Department of Water Resources
ET ..... evapotranspiration
ETo ..... Reference Evapotranspiration
EWMA ..... Eastside Water Management Area
GIS ..... Geographic Information Systems
GSA ..... Groundwater Sustainability Agency
GSP ..... Groundwater Sustainability Plan
HCM ..... Hydrogeologic Conceptual Model
HMWD ..... Henery Miller Water District
JPA ..... Joint Powers of Exercise Agreement
KNDLA ..... Kern Non-Districted Land Authority
NYA ..... Native Yield Allocation
P&P ..... Provost & Pritchard
PMA ..... Project and Management Action
PRISM ..... Parameter-Elevation Regressions on Independent Slopes Model
SGMA ..... Sustainable Groundwater Management Act
USBR ..... Unites States Bureau of Reclamation
USDA ..... United States Department of Agriculture
WKWD ..... West Kern Water District
yr ..... year

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1 INTRODUCTION

1.1 OVERVIEW

This report documents an analysis of recent water demands for the Kern-Non Districted Land Authority (KNDLA). A previous water budget was developed for the 2025 Kern Subbasin Groundwater Sustainability Plan, but it was developed at a regional, planning level, and a more detailed, KNDLA-focused water demand and accounting analysis are needed to support the development of a potential future groundwater allocation policy. The work presented herein did not include updating or developing a groundwater model or a complete replacement water budget; rather, it focused on refining existing water demand estimates, documenting imported water supplies, estimating effective precipitation, and identifying data gaps. The results, however, are still preliminary since most demands had to be estimated due to a lack of metered water delivery data. The analyses encompass both KNDLA and Eastside Water Management Area (EWMA) lands, with data summaries and accounting results maintained separately where practical to support future governance and policy decisions.

1.2 BACKGROUND INFORMATION

The Kern Non-Districted Land Authority (KNDLA) was formed in May 2024 through a Joint Exercise of Powers Agreement (JPA) among 21 public agencies. The purpose of KNDLA's formation was to provide Groundwater Sustainability Agency (GSA) coverage for non-districted lands within the Kern County Subbasin, which includes ensuring compliance with SGMA requirements, SGMA reporting, and coordination with other agencies in the Subbasin.

Unlike many GSAs in the Subbasin, KNDLA does not function as a traditional water supplier and does not have a long-standing landowner assessment or water delivery infrastructure. Its role is primarily to provide SGMA regulatory coverage, reporting, coordination, and implementation authority for non-districted lands.

KNDLA Service Area

KNDLA encompasses approximately 280,000 acres within the Kern Subbasin, including approximately 39,300 acres within the Eastside Water Management Area (EWMA). A map of KNDLA land uses from the 2025 GSP is provided in Figure 1-1. The land uses are diverse and include the following:

- Oil and industrial uses
- Rural residential areas
- Small community water systems including some Disadvantaged Communities
- Public recreational areas
- Native lands and environmental preserves
- Rangeland and grazing lands
- Limited agricultural production
- Commercial and industrial areas

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Eastside Water Management Area

The EWMA is an Associate Member of KNDLA. EWMA covers 39,300 acres in the northeastern part of KNDLA (see **Figure 1-1**). EWMA was formed in May 2018 and is a non-profit corporation formed to represent its 46 member landowners. EWMA is pursuing public agency status to act as the designated GSA for its jurisdictional footprint, which would result in the area's detachment from KNDLA.

Because EWMA may ultimately become a separate public agency and designated GSA, future policy development should distinguish between KNDLA-wide policy principles and EWMA-specific accounting, governance, and implementation considerations.

Challenges

KNDLA faces several unique challenges relative to typical GSAs, including:

- Highly fragmented, non-contiguous geography dispersed across Kern County.
- A mix of agricultural, rangeland, domestic, and incidental groundwater uses.
- A land base dominated by rangeland with a comparatively small but important irrigated acreage component.
- The presence of limited non-groundwater supplies (e.g., produced water or recycled/effluent supplies) in select areas. Most areas are entirely groundwater dependent.
- Wide variation in water demands.
- The need to develop funding and assessment mechanisms for landowners who have historically not been assessed.
- Limited metering and pumping records.
- Presence of groundwater-dependent communities with no alternative supply, creating public health and equity considerations.
- Many affected landowners have not historically been subject to district-administered groundwater accounting, pumping allocations, or direct SGMA-related assessments, which may create outreach, funding, and enforcement challenges.
- Almost no available groundwater pumping data.

These challenges are particularly evident in the KDNLA water budget presented in the 2025 GSP, which lacks sufficient detail, omits certain water demands, and relies on simplifying assumptions. To address these limitations, this study was undertaken to refine the water demands, develop water accounting procedures, and support the potential future implementation of groundwater allocations.

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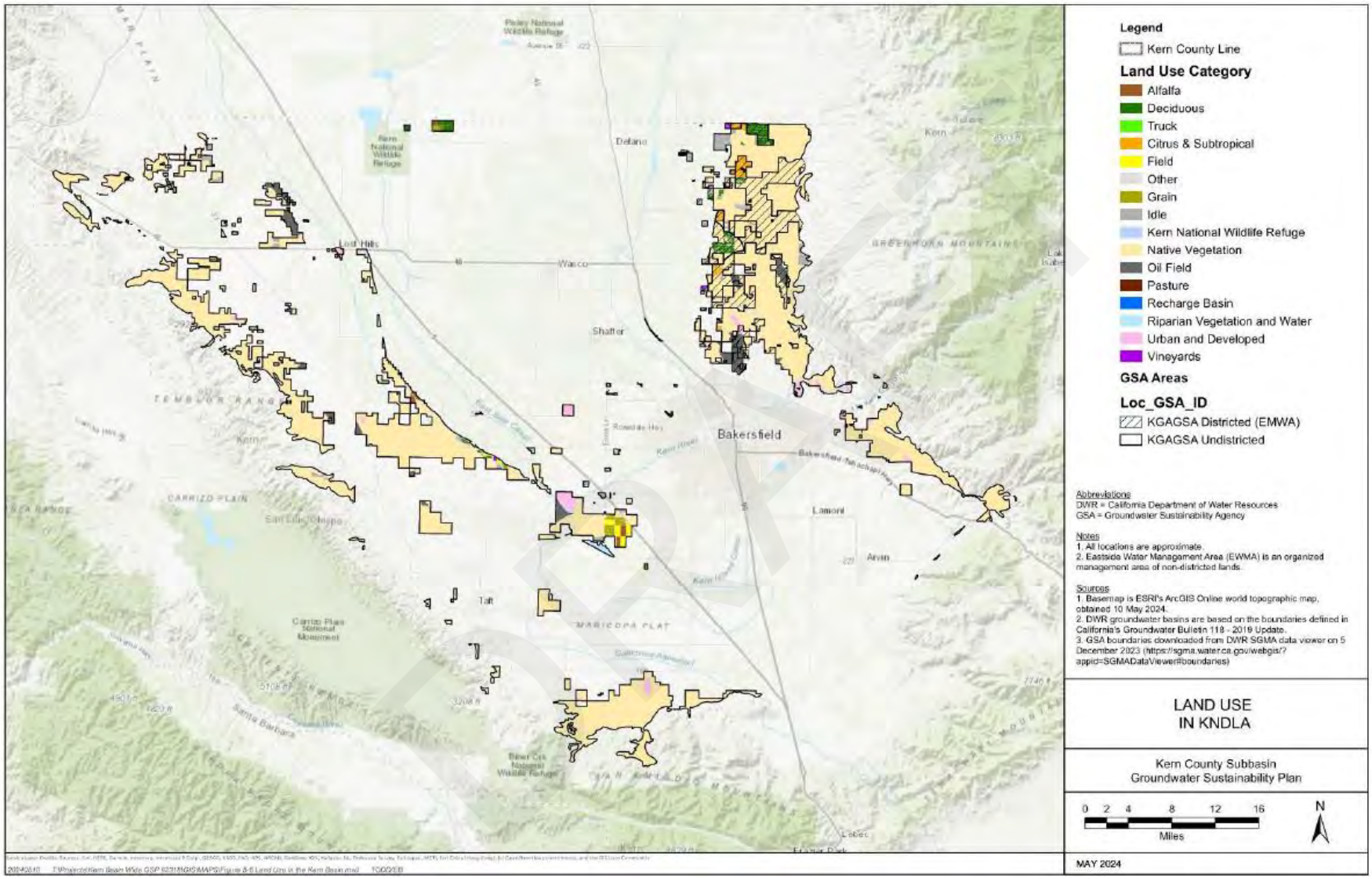

Source: 2025 Kern Subbasin Groundwater Sustainability Plan

Figure 1-1: Land Use in Kern Non-Districted Land Authority

1.3 SCOPE OF WORK

The scope of work for this study included the following tasks:

- **Land Use Maps.** Develop detailed land use map using publicly available aerial imagery, GIS datasets, and available databases to identify cropped lands, rangeland, oilfield development, rural residential areas, industrial areas, and other major land uses.
- **Identify Water Users.** Map key water-use features, including domestic wells, water systems, commercial facilities, private lakes, golf courses, and other significant demands. The effort will support water budget development at a planning level and will rely primarily on GIS, aerial imagery, and existing databases, with limited field verification as needed.
- **Estimate Water Demands.** Estimate water demands based on the land uses and features above. Develop water demand assumptions where needed
- **Identify Imported Water Supplies.** Identify imported, recycled, produced, and other non-groundwater supplies within KNDLA. Information will be compiled through coordination with KNDLA member agencies and other available sources, without independently verifying water rights, contract entitlements, or legal availability.
- **Meet with Agencies.** Meet with water agencies and KNDLA representatives to evaluate water supplies, demands and losses associated with Lake Webb.
- **Estimate Effective Precipitation.** Estimate effective precipitation across KNDLA using PRISM precipitation data and accepted methodologies. The analysis will evaluate how precipitation is represented in existing ET datasets and determine its appropriate role in groundwater accounting while avoiding double-counting of water supplies.
- **Identify Data Gaps.** Identify data gaps that remain after water budget development and assess their potential effect on the accuracy and reliability of the water budget.
- **Compare Results to 2025 GSP Water Budget.** Compare results of new water demands with the water budget in the 2025 GSP and document significant differences, limitations, and recommended accounting assumptions to support future work.

This scope does not include updating the groundwater model, analysis of water rights, contacting water users, or a final parcel-level allocation calculation. The scope of work also excluded a parcel-by-parcel level analysis of land uses and water demands, though attempts were made to identify the major water users. A parcel level analysis will begin with funding development, such as a Proposition 218 election, which will require identifying and cataloguing each parcel. Implementation of the allocation policy will require estimating or collecting data on water demands at each parcel.

Long-Term Phases for Groundwater Allocation Policy Development

The development of the Groundwater Allocation and Use Policy is envisioned to include five phases that are briefly described below to provide a high-level picture of the long-term project.

Phase 1 – Groundwater Allocation Options Analysis. This phase has been completed and involved Provost & Pritchard (P&P) and KNDLA preparing a technical and policy-support document to evaluate practical and defensible groundwater allocation approaches. The study was intended to assess feasible alternatives rather than recommend or implement a final allocation policy. Thirteen

key policy topics were identified, and potential approaches were developed through stakeholder engagement, review of groundwater sustainability agency (GSA) policies, and analysis of the regional water budget presented in the GSP. Stakeholder feedback helped identify potential implementation considerations and areas of concern, but it did not result in adopted policy decisions.

Phase 2: Water Demand and Accounting Analysis. This phase is covered in this report. See the scope of work at the beginning of this section.

Phase 3: Develop Groundwater Allocation Policy. Using the options outlined in Phase 1, and the results of Phase 2 – Water Demand and Accounting Analysis, identify the best alternatives for a groundwater allocation framework through outreach efforts and negotiations. Prepare outreach policy document with assistance from legal counsel, which will outline the groundwater allocation rules and policies and additional sections on monitoring, reporting, compliance, enforcement, record keeping, appeals, policy updates, etc.

Phase 4: Funding Development. Develop funding sources for agency administration, management, monitoring, and groundwater allocation tracking and enforcement. Work would include identifying long-term water management needs and costs and securing funding through Proposition 26 process, Proposition 218 election, or another mechanism.

Phase 5: Groundwater Allocation Implementation. Prepare a database for tracking groundwater pumping and allocations, develop administrative rules and regulations, perform a 1-year dry run of the groundwater allocation policy, perform public outreach, and launch and implement the program.

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2 PREVIOUS WATER BUDGET

The Kern Subbasin 2025 Groundwater Sustainability Plan included a regional water budget that quantified and reported individual water budget components for KNDLA. The sections below summarize KNDLA water demand, KNDLA water supplies, native yield, and key limitations of the water budget in the GSP. The EWMA water budget is addressed separately when pertinent. For detailed analyses and tables, refer to the 2025 Kern Subbasin GSP, Appendix H.

Kern Subbasin Native Yield

Native yield is the amount of groundwater replenished on a yearly basis through natural means, including precipitation and streamflow. Since KNDLA has no long-term surface water supplies or known intentional groundwater recharge, groundwater yield is limited to the native yield. The 2025 Kern Subbasin GSP estimated a native yield for the entire subbasin, which was subsequently accepted by all the GSAs. Native yield was derived from two fundamental components: percolation due to precipitation, which accounts for the vast majority at approximately 232,000 AF annually (1/3 to agricultural parcels, 2/3 to non-agricultural parcels), and average annual inflow from small watersheds across the subbasin at approximately 49,000 AF annually. Unlike some subbasins, recharge from natural streams is not included in the native yield, as other agencies hold rights to those volumes. The native yield was calculated using the values below:

281,000 AF natural recharge / 1.8 million acres ≈ 0.15 AF/acre

The apparent KNDLA deficit depends heavily on whether native yield is evaluated across the full KNDLA acreage or only on developed lands (lands with water demand) used in the GSP operational water budget. A defining feature of the Kern Subbasin water budget is that native yield is applied only to developed land for GSP operational water budget purposes (roughly 10% of the KNDLA). In the GSP, "developed land" is defined as parcels that put water to beneficial use, including irrigated agriculture, urban lands, recharge basins, partially irrigated land (dryland farmed), and temporarily fallowed ground. Land uses such as native vegetation, riparian vegetation, and oil fields are not included in the GSP's developed-land category, and native yield is therefore not applied to those lands in the GSP water budget.

Only applying native yield to developed lands assumes that native yield from undeveloped areas is not reallocated to the developed lands, and developed lands are limited only to the native yield assigned to their property. This policy has the following advantages:

1. Helps to prevent concentrated pumping in specific areas that could cause adverse groundwater level declines or land-subsidence
2. Prevents native yield from being transferred to other parcels that are not contiguous or far away.
3. Prevents landowners from becoming dependent on native yield that one day may not be available to them.

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KNDLA stakeholders supported this approach as a starting point for future policy development during stakeholder meetings. However, they also supported allowing adjacent parcels under common ownership to share a groundwater allocation.

For KNDLA's entire area, the native yield is 0.15 AF/acre x 280,000 acres = 42,100 AF/yr, exceeding the approximately 29,100 AF of estimated annual demand reported in the GSP. However, the GSP water budget only accounts for native yield on developed lands. KNDLA is less than 10% developed (27,700 acres), resulting in 4,200 AF of native yield in the water budget, showing an apparent 25,000 AF deficit. Hence, native yield represents a minor contribution relative to total demand in KNDLA under the developed-land approach used in the GSP water budget. This gross-area calculation is presented for comparison purposes only and should not be interpreted as a determination that the full 42,100 AF/yr is available for allocation, transfer, or use by developed lands within KNDLA.

2.1 SUMMARY OF EXISTING WATER BUDGET

Table 2-1 summarizes the difference between gross-area native yield and developed-land native yield for KNDLA and EWMA. KNDLA is used as the primary example in the discussion above, while EWMA is shown separately because it is treated as a distinct management/accounting area and may have different implementation considerations.

Table 2-1: Comparison of Gross-Area Native Yield and Developed-Land Native Yield

Description	KNDLA (without EWMA)	EWMA	Total KNDLA Area
Gross acreage	241,000 acres	39,300 acres	280,300 acres
Native yield rate	0.15 AF/ac/yr	0.15 AF/ac/yr	0.15 AF/ac/yr
Gross-area native yield	36,200 AF/yr	5,900 AF/yr	42,100 AF/yr
Developed acreage (2015-2023 avg)	21,200 acres	6,500 acres	27,700 acres
Developed-land native yield	3,200 AF/yr	970 AF/yr	4,170 AF/yr
Annual demand (2015-2023 average)	21,400 AF/yr	7,700 AF/yr	29,100 AF/yr
Apparent developed-land deficit	18,200 AF/yr	6,730 AF/yr	24,930 AF/yr

Notes:
1 - The table is intended to compare the effect of applying native yield across gross acreage versus developed acreage; it should not be interpreted as a final allocation or groundwater rights determination.

Several clarifications to the KNDLA and EWMA water budgets are needed, since they are not clear in the existing documentation found in the GSP:

1. It is currently unclear whether native yield allocations were based on a parcel's entire acreage or strictly to its developed footprint.

2. The native yield allocation likely does not consider native yield contributions from contiguous parcels with the same ownership. Transferring the native yield within the same ownership has been viewed favorably by the stakeholders. This could significantly increase the available native yield in KNDLA.

Table 2-1 provides an overall summary of water demands from the 2025 GSP from 2013 to 2025. A more detailed comparison between the new water demand estimates and 2025 GSP Water budget using more recent years is presented in Section 5, which includes a comparison of demands for specific water user categories.

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3 LAND USES AND WATER DEMANDS REQUIREMENTS

This chapter identifies the various major land uses and primary water users within KNDLA, while outlining the specific criteria used to estimate their respective water demands. Detailed land use maps for KNDLA are provided in **Appendix A**, organized by the five Hydrogeologic Conceptual Models (HCMs) areas established in the Kern Subbasin GSP (refer to the end of this section for discussions on the HCMs).

3.1 LAND USE CLASSIFICATIONS AND WATER DEMAND CRITERIA

Land uses were identified using GIS datasets, aerial imagery, county parcel data, Land IQ data, and information in the 2025 Kern Subbasin GSP. The specific data sources for each land use category are described in the sections below. Criteria used to estimate water demand for each land use type are also presented.

Agricultural / Farmland. This represents uncultivated farmland including equipment yards, barns, farm buildings, etc. These areas may have a small domestic demand or demand for washing equipment, etc., but it was assumed to be negligible and reported as zero.

Animal Facility. This category would include dairies, feed lots, chicken farms, etc. These facilities have water demands, outside of cropped areas, that range from 0.5 to 2.0 AF/acre. Only one animal facility was found in KNDLA and appears to be a feed lot, though much of it is vacant or undeveloped. For this analysis it was assumed to have a demand of 1.0 AF/acre.

Commercial Sport- Non-Irrigated. One raceway fell under this category. Assuming 5,000 people attend every two weeks and use 15 gallons/visit, and that the site has two acres of irrigated landscape, the demands would be 12 AF/yr.

Commercial Sports – Irrigated. These include parks, golf courses, and athletic fields. The turf grass and other landscaping were assumed to have a water demand of 41 inches/year.

Industrial. This category included commercial and industrial uses outside of established water systems. Fifty different commercial and industrial facilities were identified including gas stations, truck stops, restaurants, pumping plants, sand/gravel mines, distribution facilities, fabricators, construction companies, and other miscellaneous facilities.

These industrial areas are scattered throughout KNDLA covering 2,578 acres. However, a review of aerial photographs show that only 123 acres, or about 5% of this area, is comprised of buildings or paved areas. Much of the area in these industrial parcels are barren or used for equipment storage, and some industrial parcels have no development at all. Assuming the developed areas plus an equal amount for equipment yards and other facilities has a water demand, then demands would occur over 123 acres x 2 = 246 acres of industrial land use. Assuming a demand of 1 AF/acre x 246 acres the demand is 246 AF/yr. This was simplified to 0.1 AF/acre over entire industrial area, or 0.1 AF/acre/yr x 2,578 acres = 258 AF/yr.

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Cropping Land Use. Crop water demands were based on 2025 Land IQ data, which estimates crop evapotranspiration (ET) using remote sensing technology. Effective precipitation was also subtracted from crop water demands. Refer to Section 4.3 for estimated effective precipitation values. Because the Land IQ estimates do not account for irrigation efficiency, an irrigation efficiency of 85% was assumed. This value was applied consistently throughout the KNDLA due to insufficient data to support area-specific efficiency assumptions; however, it may be refined in the future as additional data become available.

Some areas had low crop ET, but the values exceeded what could be provided through rainfall or what would be needed to support a crop. These areas were primarily wheat and grains and are assumed to be winter wheat. In most cases, some minor water was estimated to be applied for pre-irrigation, to support germination, or as a supplemental supply. This may explain why average agricultural water demands throughout KNDLA are only 2.2 AF/acre.

Cropped acreage shown in the maps in **Appendix A** just shows the cropped areas and not specific crops. The data is based on 2024 DWR land-use maps, which differ slightly from the 2025 Land IQ dataset. These maps are provided for general reference only, as cropped areas can vary from year to year.

Oil Field. Oil fields were classified utilizing the California Department of Conservation: Geologic Energy Management Division (CalGEM) dataset and verified with aerial imagery. They are assumed to include active and inactive oilfields. Many oilfields appear to be inactive or not developed yet. Several million gallons can be needed during well drilling, but that is a one-time water use, water is often trucked in, and non-potable water supplies are sometimes used. During pumping and operations, demands are low, and there are generally no demands when the oilfield is inactive or undeveloped. Consequently, the overall demand is assumed to be well below the native yield and reported as zero.

Public Land. Public lands fall into two main categories. The first category includes wildlife reserves and state lands. These areas are typically large, but have few demands typically including a visitors center and some have campgrounds. Most of the area is open land and has no observed water demand. The minimal demand is spread out over a large area resulting in a very small demand per acre, assumed to be 0.01 AF/acre, well below the native yield.

Other public lands include City or County facilities such as parks, golf courses, museums, recreational areas and campgrounds. These are located in the East Margin HCM and include Lake Ming Recreational Area, Kern River Campground, Hart Memorial Park, Kern River County Park, California Living Museum and other public lands. Some of these lands have open water bodies, but those evaporative demands are included under the Water Bodies category below. These areas combine for about 960 acres once surface water bodies are removed and could have considerable demand. Some areas have permanent landscaping, while some areas have no landscaping or are used for roads/parking. Water use records should be collected from the County and other associated entities to get an accurate demand estimate. In the absence of other data, they were assumed to use 2 AF/acre or 1,920 AF/yr. Some of these areas use surface water from the Kern

River for a portion of the water supply, but no data was readily available on surface or groundwater use.

Public Water system. Public water systems were identified with information from the California Division of Drinking Water. These represent small community water systems in KNDLA. Some systems are located partially within and partially outside of KNDLA. Overall, 12 systems were identified with an estimated population of 5,446 within the KNDLA boundary. Assuming 200 gallons/capita/day, the total demands are 1,220 AF/yr.

Rangeland. This classification included any land that was not given a public dataset classification and appeared to be cattle rangeland via aerial imagery. These areas were restricted to the coastal foothills and foothills of the Sierra Nevada. Rangeland was identified as the largest land-use category in KNDLA, so research was performed on potential water demands. The analysis below assumed dryland rangeland management. Any irrigated pasture would fall under Cropped Land use.

Based on the annual dry matter production of rangeland, a carrying capacity for cattle on that land was estimated. The stocking rate on rangeland can be estimated from the forage potential or annual dry matter production. Estimates of the annual dry matter production by soil type are included in various USDA soil surveys. A soil at the higher end of the production range (2,800 lbs/acre) was used for a normal production year. To prevent overgrazing and soil erosion, it is recommended that at the end of the growing season, the residual dry matter (what remains) be 1,000 lbs/acre. One cow consumes about 800 pounds per month of dry matter and is presumed to forage at about 50 percent efficiency (UC Cooperative Extension Sonoma County, 2010). This results in a requirement of 5.3 acres per cow. The high end of cattle drinking water requirements was used at 19 gallons per day (USDA Soil Conservation Service, 1979). The entire cattle drinking water demand was presumed to be supplied from groundwater, giving an estimate of 0.002 AF/Acre.

Roadway. This represented the right-of-way of existing roads. These areas were assumed to have no water demands.

Rural Residential. Rural residential areas cover 3,773 acres and include an estimated 323 wells. Hence the average parcel with a rural residential well is more than ten acres, though this is also skewed by some large parcels that may include other land uses such as farming. An analysis of parcel area for properties with a domestic well is summarized in Table 3-1 below.

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Table 3-1: Area of Parcels with Domestic Wells

Range of Parcel Area (acres)	Number of Wells	Percentage of Wells
0.01 to 1.0	5	2%
1.01 to 2.0	11	3%
2.1 to 5.0	137	42%
5.1 to 10.0	56	17%
10.1 to 20.0	38	12%
20.1 to 40.0	57	18%
Greater than 40.0	19	6%
Total	323	100%

Table 3-1 shows that less than 5% of the parcels are less than 2 acres. The most common parcel size is 2.1 to 5.0 acres. Also 53% of the parcels are larger than 5.1 acres. This illustrates that rural residential homes are generally on large lots and have sufficient room for large lawns, landscaped areas, gardens, mini-farms, pools and other water features. This is consistent with visual observations throughout KNDLA.

An individual analysis of house sizes and landscaped areas was not performed for each property. Rather, using the parcel data above, the following assumptions were made:

- An average of one-half acre of each property is assumed to be irrigated landscaping, with an estimated irrigation demand o 1.5 AF/yr for that landscaped area.
- Indoor water use and other outdoor water uses (pools, washing, etc.) account for an additional 0.5 AF/yr
- Average water demand is assumed to be 2.0 AF/yr per rural residential home or domestic well.

Solar Field. Based on solar water supply studies for solar farm projects in Fresno and Kings Counties, total demands are estimated to be 0.007 AF/acre, which is well below the native yield. However, water can approach or slightly exceed the native sustainable yield of 0.15 AF/acre during construction.

Water Bodies. Surface water bodies were identified using the USGS National Hydrography Dataset (NHD) and aerial imagery. Surface water bodies were placed into two categories: 1) Those with an evaporative demand that impacts groundwater and imported surface supplies in KNDLA, such as agricultural ponds, recreational lakes, etc.; and 2) other surface water bodies with no evaporative demand impacting KNDLA water demands, such as the California Aqueduct, Kern River and wastewater effluent ponds.

Table 3-2 below shows the types of water bodies in each HCM, total area, and the area applicable to the KNDLA water demand estimate.

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Table 3-2: Water Bodies in KNDLA

HCM	Water Body Descriptions	Total Area (acres)	Water Demand Area (acres)	Evaporation Losses[1]
Eastside WMA	Agricultural Ponds	21	21	88
East Margin	Parks and Recreational Areas / Kern River	244	147	613
Kern River Fan	Kern River and Effluent Ponds	238	5	21
North Basin	California Aqueduct	123	0	0
South Basin	Lake Webb	863	863	3,596
Western Fold Belt	Kern River/California Aqueduct	211	0	0
			Total	4,317

1 – An evaporation rate of 50 inches per year was used. Refer to Section 5.5.4 for details on how the evaporation rate was estimated.

Lake Webb is addressed in greater detail in **Section 3.2** because of its complex water balance and its significant influence on water demand estimates.

Vacant / Barren Land. This classification was given to land within the valley floor that showed no sign of rangeland or cropping and did not fall within any boundary of a public dataset. The majority of vacant/barren land was verified using aerial imagery. These lands are assumed to have zero demand.

Water Treatment. This land use includes water/wastewater treatment plants and treatment ponds. These facilities may have some small domestic demand or water demand for washing equipment, etc. However, due to the large footprint for typical treatment plants and treatment/storage ponds, water demand was assumed to be negligible and reported as zero.

3.2 LAKE WEBB WATER BALANCE

3.2.1 BACKGROUND

Lake Webb, also called Lake Buena Vista, is located within the Buena Vista Aquatic Recreational Area (BVARA) in southwestern Kern County, California. Lake Webb is shown on the land use map for the South Basin HCM in **Appendix A**, as well as in **Figure 3.1** below. The lake is approximately 25 miles southwest of Bakersfield and just north of the town of Taft, situated on a portion of the historical lakebed of the former Buena Vista Lake.

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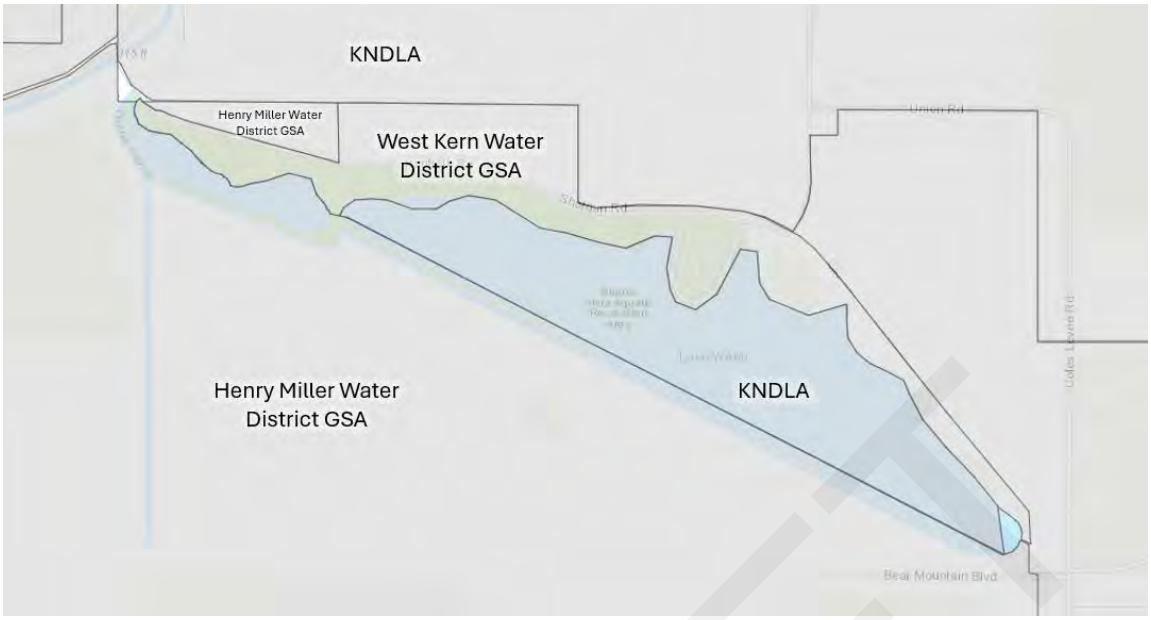

Figure 3-1. Lake Webb and Surrounding Groundwater Sustainability Agencies

Lake Webb covers about 863 acres and is located in KNDLA. Lake Webb is also the larger of the two water bodies composing Buena Vista Lakes. The smaller Lake Evans to the west is 125 acres and resides in Henry Miller Water District. The lake is owned and operated by the County of Kern, who is responsible for all losses from the Lake. Buena Vista Water Storage District (BVWSD) holds storage rights within the lake, specifically the upper two feet of storage capacity between elevations 293.5 ft and 295.5 ft; the remainder of the lake is retained for county recreational use.

3.2.2 INLETS AND OUTLETS

Lake Webb receives water from four inlets:

1. County wells along the north rim (located within the West Kern Water District (WKWD) GSA)
2. Henry Miller Water District (HMWD) wells along the south rim
3. The Alejandro meter bringing water in on the east side
4. An inlet from the California Aqueduct via Lake Evans through a connecting siphon, which is rarely used.

While the lake boundary resides in KNDLA, the wells that can supply the lake are not within KNLDA; most of the supply wells are along the northern banks in WKWD with some along the southern bank in HMWD (Figure 3-1). Water leaves the lake through one of four outlet meters, seepage, and evaporation.

Jurisdictional issues with the County pumping groundwater from one GSA and importing it into KNDLA are not addressed in this report.

3.2.3 WATERMASTER REPORTS

Watermaster reports for Lake Webb were acquired from BVWSD for calendar years 2017 to 2025. The reports document the inputs, outputs, storage change and losses in Lake Webb. Following are average values during this nine-year period:

- Kern County Groundwater Pumping: 7,114 AF/yr
- Kern County Surface Water Deliveries: 542 AF/yr
- Reservoir Losses: 7,972 AF/yr

The majority of County deliveries are groundwater, however, when available they do purchase and deliver limited quantities of surface water. BVWSD and HMWD also deliver and recover surface water and groundwater from the lake. The values above do not balance for several possible reasons, including measurement errors, change in storage, seepage, and deliveries from other agencies.

3.2.4 EVAPORATION LOSSES

Evaporation losses at Lake Webb were estimated four different ways using a measured water surface area of 863 acres, and ranged from 3,530 to 4,660 AF/year, with an average of about 4,000 AF/year. The methods included the following:

- 4,150 AF/year from the computed mean annual evaporation from staff gage data for Buena Vista Lake for years 1937-45, during a period when there was no inflow or outflow, with the presumption that there is no infiltration (*Evaporation from Water Surfaces in California, Bulletin No. 54-B*, California Department of Public Works, Division of Water Resources, October 1955).
- 3,530 AF/year from average evaporation rates from Class A pans in the southern San Joaquin Valley for years 1959-1972 (Table C-1, *Crop Water Use - A Guide for Scheduling Irrigations in the Southern San Joaquin Valley* 1977-1991, California Department of Water Resources, March 1993, multiplied by 0.77 (Estimating US Class-A Pan Evaporation from Few Climate Data, Edward T. Linacre, 1994, Water International, 19, 5-14, Retrieved September 27, 2018 from http://www-das.uwyo.edu/~geerts/cwx/penpan.html) due to evaporation from pans being higher than from open bodies of water.
- 3,580 AF/year from an average of evaporation rates from Class A pans in the southern San Joaquin Valley for years 1977-1991 (Table D-1, *Crop Water Use - A Guide for Scheduling Irrigations in the Southern San Joaquin Valley* 1977-1991, California Department of Water Resources, March 1993, multiplied by 0.77 (Estimating US Class-A Pan Evaporation from Few Climate Data, Edward T. Linacre, 1994, Water International, 19, 5-14, Retrieved September 27, 2018 from http://www-das.uwyo.edu/~geerts/cwx/penpan.html) due to evaporation from pans being higher than from open bodies of water.
- 4,660 AF/year using the CIMIS reference evapotranspiration (ETo) from the Arvin Edison CIMIS station, multiplied by a factor of 1.1. Because the CIMIS reference ET reflects evapotranspiration from grass with continuously available water rather than open water, and open water surfaces typically evaporate somewhat faster; on the order of 5% more for shallow water bodies (Allen, Pereira, Raes, & Smith, 1998) to 10% more for deeper lakes

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(Jensen, 2010), actual evaporative losses from Lake Webb were increased by 10% from the ETo.

These estimated evaporation volumes all fall within a certain range, providing some certainty that evaporation does fall between about 3,500 and 4,600 AF/yr.

3.2.5 LAKE SEEPAGE

No data on seepage rates was readily available. County of Kern staff has previously discussed geotechnical work performed at the lake that may assist in seepage estimates, but the information was not available. If seepage occurred, it would eventually replenish groundwater storage and offset groundwater pumping from the County Wells.

Lake Webb is located in the Buena Vista Lakebed, which is known for having fine-grained impermeable soils. In addition, some surrounding water districts believe seepage may be low or negligible Until better data indicates otherwise, due to the fine-grained soils, long-term sedimentation, and a lack of dredging in recent years, seepage is neglected in the estimate.

However, the evaporation losses (3,500 to 4,700 AF/yr) are notably lower than total reported reservoir losses, estimated to be 7,900 AF/yr during the last nine years. The 2025 GSP reports long-term losses of 7,195 AF/yr from Lake Webb.

The "Reservoir Losses" in Buena Vista Lake Watermaster Reports are a broader accounting term that can include seepage, measurement error, unmeasured withdrawals or theft in addition to evaporation, so losses from those reports represent more than evaporation from Lake Webb alone.

3.3 WATER DEMAND SUBREGIONS

The water demands were developed and reported for each of the five Hydrogeologic Conceptual Models (HCM) identified in the 2025 GSP (see **Figure 3-2**), as well as the Eastside Water Management Area (EWMA). The HCMs are considered appropriate subregional units for water demand evaluations for the following reasons:

- The HCM boundaries were previously delineated and established by the Kern Subbasin
- The different HCMs have distinct variations in geology, hydrology, climate, physiography and water demands.
- The HCMs divide the water demand analysis into smaller, more manageable regions

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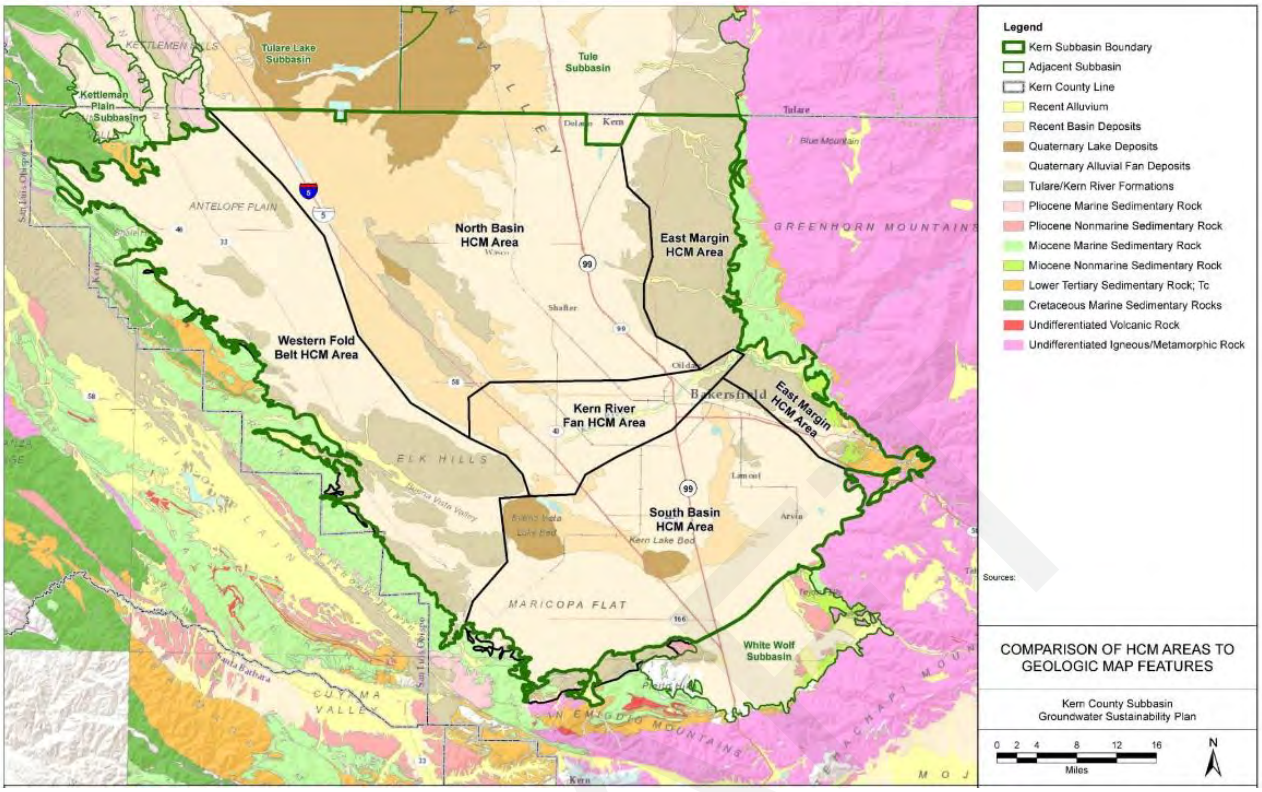

Source: Kern Subbasin Groundwater Sustainability Plan (2025)

Figure 3-2: Location of Hydrogeological Conceptual Model Areas

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4 WATER SUPPLIES

Water supplies in KNDLA include groundwater, imported surface water and effective precipitation. Each supply is discussed and quantified below.

4.1 GROUNDWATER

Native yield is the amount of groundwater replenished on a yearly basis through natural means, including precipitation and streamflow. Since KNDLA has no long-term surface water supplies or known intentional groundwater recharge, groundwater yield is limited to the native yield. The 2025 Kern Subbasin GSP estimated a native yield for the entire subbasin, which was subsequently accepted by all the GSAs.

For planning and accounting purposes, the 2025 GSP identifies an average Subbasin native yield of approximately 0.15 AF/acre. The manner in which KNDLA ultimately applies native yield to individual parcels or landowners, including whether native yield may be applied across an entire parcel or transferred among contiguous parcels under common ownership, will be addressed at a future date through the likely development of the groundwater allocation policy.

4.2 IMPORTED WATER

KNDLA does not hold water supply contracts, and its landowners generally do not possess surface water rights or receive routine deliveries from water agencies. Nevertheless, some landowners import wastewater effluent, produced water, surface water and floodwater. The supplies described below represent the imported water sources currently known to exist within KNDLA. Additional imported supplies may be present but have not been identified or reported. These supplies are not consistent, are often agreement-based, and should not be considered reliable baseline supplies for future planning unless noted in the descriptions below.

Buena Vista Water Storage District

Buena Vista Water Storage District (BVWSD) has occasionally delivered water in wet hydrologic years to KNDLA lands west of the District. These deliveries are infrequent and have occurred about twice every decade. Recent deliveries include 810 AF in 2017, 442 AF in 2019 and 1,353 AF in 2023, which averages about 370 AF/yr. BVWSD is developing projects in their service area to capture more wet-year water and believes that these deliveries are unlikely to occur in the future to areas outside of their district.

Eastside Water Management Area

The Eastside Water Management Area reported receiving an estimated 2,400 AF of produced water annually. Produced water refers to water that is brought to the surface during the extraction of oil, natural gas, or other hydrocarbons, or that is separated from those resources after extraction. According to EWMA, deliveries of produced water are expected to continue at similar levels in the future. The produced water is not from the groundwater aquifer regulated by SGMA and therefore is included as imported water.

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County of Kern Parks and Recreational Facilities

Preliminary research indicates that the following facilities use Kern River Water for landscape irrigation and water body replenishment: Kern County Park, Kern County Soccer Park, Lake Ming Park, California Living Museum, and Kern River Golf Course.

The Kern River Campground is reported to use groundwater from local wells. Also some groundwater is used at the Kern River Golf Course; since the precise quantity is not known it is assumed to be 50% of total golf course demands.

Based on the information above, the total surface water diversions for these facilities are roughly estimated to be 2,340 AF/yr. It is assumed this water will continue to be available in the future. This information should eventually be improved with actual water delivery data from the County of Kern.

Green Acres Farm

Green Acres is a large agricultural facility owned by the City of Los Angeles (LA Sanitation and Environment). The farm is located about 15 miles southwest of Bakersfield in unincorporated western Kern County (near I-5 and Taft Highway). The farm covers 4,700 acres and is the largest contiguous irrigated farmland within KNDLA. The farm is used to beneficially reuse nutrient-rich Class A biosolids (treated organic material from water reclamation plants) as natural fertilizer to grow non-food crops. These biosolids are trucked continuously from Los Angeles to the farm.

The farm is currently under contract through December 2026 to receive treated wastewater effluent from the City of Bakersfield. In recent years, deliveries have averaged approximately 8,000 AF/yr, meeting most of the farm's water demand. The City of Bakersfield is currently evaluating options for continuing deliveries to the property under a different agreement; however, the outcome of that evaluation has not yet been determined.

Green Acres is located partially within and partially outside of KNDLA. Cropping data indicate that 3,237 of the farm's 4,725 total acres, or approximately 69%, are located within KNDLA. Assuming effluent deliveries are distributed in proportion to irrigated acreage, approximately 5,500 AF/yr (69% of 8,000 AF/yr) would be attributable to the portion of the farm within KNDLA.

Water demands not met by effluent deliveries are supplied through pumped groundwater and occasional purchases of surface water from local agencies, including the Kern Delta Water District and North Kern Water Storage District. Available information indicates that up to 3,000 acres can receive these surface water deliveries. However, information regarding the quantity and timing of those deliveries was not provided.

Webb Lake

Kern County owns and operates the Buena Vista Aquatic Recreational Area, which includes Lake Webb. Lake Webb is primarily filled with groundwater pumped from nearby wells. However, Kern County does purchase some surface water when it is available, especially in wet years, often because it is less expensive to purchase surface water than to pump groundwater. From 2017 to

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2025, Kern County purchased 4,876 AF of water from nearby water districts, or an average of about 540 AF/year. These purchases may or may not continue into the future but could be available in very wet years.

Summary

The following table summarizes recent water deliveries to KNDLA and their anticipated reliability in the future.

Table 4-1: Recent Imported Water Deliveries to KNDLA

Water Supplier	Water Use	Average Annual Deliveries	Future Reliability
Buena Vista Water Storage District	Irrigation in KNDLA lands near BVWSD	370 AF/yr	Unlikely
Produced water from oil companies	Irrigation in EWMA	2,400 AF/yr	Considered likely by EWMA
Kern River Water	Various County Park and Recreational Facilities	2,340 AF/yr	Likely
City of Bakersfield	Wastewater effluent for Green Acres Farm	5,500 AF/yr	Unknown
BVWSD and other Water Districts	Lake Webb replenishment	540 AF/yr	Unknown. Possible in wet years.
	Total	**11,150 AF/yr**	

4.3 EFFECTIVE PRECIPITATION

Effective precipitation is the portion of total rainfall or precipitation that is actually stored in the root zone of the soil and made available for plant growth and crop transpiration, rather than being lost to surface runoff, deep percolation, or direct surface evaporation.

Effective precipitation was estimated using the USBR Method from the 1978 Food and Agriculture Organization Irrigation and Drainage Paper No. 25: *Effective Rainfall in Irrigated Agriculture* (Chapter 3). This method estimates effective precipitation in incremental phases of monthly precipitation, with the percentage of precipitation considered effective generally decreasing as monthly precipitation increases (see Table 4-2).

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Table 4-2: Effective Precipitation Based on USBR Method

Precipitation increment range		Percent	Effective precipitation accumulated - range	
mm	in		mm	in
0.0 - 25.4	0 - 1	90-100	22.9 - 25.4	0.90 - 1.00
25.4 - 50.8	1 - 2	85 - 95	44.4 - 49.5	1.75 - 1.95
50.8 - 76.2	2-3	75 - 90	63.5 - 72.4	2.50 - 2.85
76.2 - 101.6	3-4	50-80	76.2 - 92.7	3.00 - 3.65
101.6 - 127.0	4-5	30-60	83.8 - 107.9	3.30 - 4.25
127.0 - 152.4	5-6	10 - 40	86.4 - 118.1	3.40 - 4.65
Over 152.4	Over 6	0-10	86.4 - 120.6	3.40 - 4.75

For this planning-level analysis, a relatively dry five-year period from 2018 through 2022 was selected from the 2015–2025 PRISM dataset to provide a conservative estimate of effective precipitation. This resulted in effective precipitation values ranging from 5.0 to 8.6 inches per year in KNDLA, with an average of 6.8 inches. These values represent average annual effective precipitation over the selected 2018–2022 period.

These values also vary geographically based on precipitation patterns. Appendix C includes a map showing the locations of 57 different precipitation locations selected for analysis. Monthly precipitation from 2015 to 2025 was determined at each of these locations using data from PRISM (https://prism.oregonstate.edu/calendar/).

Appendix C also includes a table listing the effective precipitation at each location. The following can generally be concluded about the spatial distribution of effective precipitation:

- The eastern margin averages 7 to 8 inches/yr
- Central and southern parts of KNDLA average around 6 inches/yr
- The western margin averages about 5 to 6 inches/yr

A strict comparison of these results to the 2025 GSP water budget would not be applicable, since the 2025 GSP evaluated different cropping patterns, geographic areas, and time periods. The GSP also derived effective precipitation using a different methodology. However, for general comparison purposes, the GSP stated effective precipitation from 1995 to 2023 averaged six inches/yr in KNDLA (excluding EWMA) and eight inches/yr in EWMA, which are generally consistent and of the same order of magnitude with the values estimated with the USBR Method.

The USBR method calculates effective precipitation on a monthly basis and implicitly assumes that effective precipitation occurring during a month can satisfy crop water demand during that period. It is also assumed herein that the water is retained within the root zone for subsequent crop use. Actual effective precipitation will vary depending on crop type, soil characteristics, antecedent soil moisture, rainfall timing and intensity, and other site-specific conditions.

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The USBR method is an empirical formula and does not explicitly account for land slope or site-specific runoff. In sloped areas, effective precipitation may be lower due to runoff and overland flow. However, a more detailed assessment of these effects would require site-specific hydrologic analysis and is beyond the scope of this study.

The 2025 Land IQ data did not account for effective precipitation, so it was subtracted from the crop evapotranspiration demands provided by LandIQ. Within each HCM, the locations evaluated for effective precipitation were averaged and applied to all cropping within that HCM. The effective precipitation data can also be useful to growers for long-term planning of supplies and demands.

For future parcel-level groundwater accounting or fee calculations, effective precipitation and irrigation efficiency could be addressed together within the accounting methodology. A more refined approach should account for crop type, seasonal crop water demand, soil conditions, and longer-term precipitation patterns, and should clearly establish how crop demand is converted to gross groundwater pumping. Development of this methodology can be addressed as part of the future groundwater allocation and accounting platform.

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5 WATER DEMANDS

5.1 ANNUAL KNDLA WATER DEMANDS

The estimated annual water demands in KNDLA, broken out by water use category, are shown in **Table 5-1** below. Water demands in this report are generally reported for the 2025 water year (Oct 2024 to Sept 2025) unless otherwise noted. Values also represent total water demand and not consumptive use. **Appendix B** includes similar tables broken out for each HCM and for EWMA.

Table 5-1: Water Demand by Land-Use Category

No.	Land Use	Area (acres)	Demand (AF/yr)	Area (%)	Demand (%)
1	Ag/Farmland	272	0	0.10%	0.00%
2	Animal Facility	126	126	0.05%	0.33%
3	Commercial Sport - Non-irrigated	153	15	0.05%	0.04%
4	Commercial Sports - Irrigated	218	740	0.08%	1.93%
5	Industrial	2,578	258	0.92%	0.67%
6	Cropped Land Use	13,054	28,656	4.67%	74.76%
7	Oil Field	91,830	0	32.84%	0.00%
8	Public Land	23,556	2,146	8.42%	5.60%
9	Public Water System	1,535	1,220	0.55%	3.18%
10	Rangeland	102,919	206	36.81%	0.54%
11	Roadway	660	0	0.24%	0.00%
12	Rural Residential	3,773	646	1.35%	1.69%
13	Solar Field	239	2	0.09%	0.00%
14	Water Bodies	1,700	4,317	0.61%	11.26%
15	Vacant/Barren Land	36,971	0	13.22%	0.00%
16	Water Treatment	33	0	0.01%	0.00%
	Total	279,617	38,331	100.00%	100.00%

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Section 4 identifies approximately 11,150 AF/yr of known imported supplies. Subtracting these supplies from the estimated total water demand of 38,331 AF/yr results in a residual demand of approximately 27,181 AF/yr that is generally expected to be met by groundwater. This value should not necessarily be interpreted as a direct estimate of measured groundwater pumping because storage changes, seepage, unmeasured inflows or outflows, and other accounting differences may affect individual water users, particularly Lake Webb. Also, some of the imported supplies may not be available in the future, and some other imported supplies may not be documented in this report.

Appendix B includes water supply and demand tables for EWMA and each HCM. These tables also show the native yield groundwater allocation for each land use type and the amount of native yield that was utilized. Note when the land use has no demands, no credit is given for the native yield. When demands exceed the native yield then the full native yield supply is assumed to be used. These tables also show the imported supply available for each land use, and the net water supply deficit. These analyses do not account for the ability of contiguous properties with the same landowner to transfer groundwater allocation, which is a policy KNDLA is considering. The table below gives a summary of tables from Appendix B, including supplies, demands and estimated deficits for each HCM.

Table 5-2: Water Supplies and Demands by HCM (AF/yr)

HCM or Area	Total Demands	Total Native Groundwater Yield	Native Groundwater Yield Utilized	Imported Supplies	Water Supply Deficit
EWMA	13,481	5,633	952	2,400	10,128
East Margin (excl. EWMA)	7,786	14,614	1,211	2,340	4,235
Kern River Fan	4,639	2,055	506	3,825	308
North Basin	4,929	1,529	370	370	4,189
South Basin	6,208	4,640	506	2,215	3,488
Western Fold Belt	1,288	13,472	284	0	1,004
Total	38,331	41,943	3,829	11,150	23,352

The following conclusions and observations can be drawn from the water demands presented above:

1. Oilfields and Rangeland comprise almost 70% of the land but have minimal estimated demand, well below the native yield.
2. Numerous other land uses have relatively small estimated water demands at the planning level and represent a minor portion of total KNDLA demand.
3. Fifty different industrial facilities were identified. Based on the planning-level assumptions used in this study, average estimated demand across the full industrial acreage is below the Subbasin-wide native-yield planning value of 0.15 AF/acre.
4. Rural residential and public water systems (mostly small community systems) cover about 2% of the land. They are estimated to use 1,866 AF/yr over 5,308 acres, which

equates to 0.35 AF/acre, though this may be skewed by some large parcels that have other water uses such as cropping. Nevertheless, estimated demand over these developed areas exceeds the Subbasin-wide native-yield planning value of 0.15 AF/acre.

5. The primary land uses of concern are cropping, public water systems, rural residential, surface water bodies, animal facilities, public lands (specifically municipal parks and recreational facilities), and irrigated sports fields. Estimated demand for these land uses exceeds the Subbasin-wide native-yield planning value of 0.15 AF/acre over the developed or water-use footprint, although some of these uses also receive imported water supplies.

5.2 WATER DEMAND ESTIMATE LIMITATIONS

The water demand estimates represent an improvement over those developed for the GSP; however, they should still be considered preliminary. The estimates rely on numerous assumptions, data sources, and simplifying methodologies. As with any water demand analysis, uncertainty is unavoidable because certain variables cannot be directly measured and others are subject to data limitations or measurement inaccuracies.

Although the analysis provides a higher level of detail than the GSP water budget, its primary objective was not to develop parcel-by-parcel water demand estimates. Instead, the analysis was intended to validate and refine the GSP water budget by disaggregating water use into more specific categories and improving the understanding of demand across different land uses. In some cases, parcel-level information was incorporated where data were available and appropriate; however, a comprehensive parcel-scale assessment was beyond the scope of this effort.

The primary purpose of this analysis is to estimate the general magnitude of water demands associated with various land uses and to identify categories that may warrant additional monitoring, data collection, or management consideration. Users of these results should therefore view the estimates as on-going planning-level values intended to inform policy development and program design rather than precise measurements of water use. Additional discussion of data limitations and information gaps is provided in the Water Demand Data Gaps section below.

5.3 WATER DEMAND DATA GAPS

Following are the major data gaps identified in the water demand analysis. These may merit further investigations in later phases of the groundwater allocation program.

Animal Facility. One animal facility was identified within the East Margin HCM area that appears to operate as a low-density feedlot. Additional information, including animal counts and detailed land use data, could improve the accuracy of the water demand estimate.

Aggregate Mine. An aggregate mine was identified in the South Basin HCM Area. This operation appears to include mining, washing and processing of rock, sand and gravel. Several ponds are present on the site. Some areas have green vegetation year-round; it is unknown if these are

reclaimed areas that are watered, or if it is native vegetation fed with drainage water. The facility covers 733 acres with about 500 acres developed. This facility may have a significant water demand. Lacking specific data it was assumed to use 0.1 AF/acre over the entire parcel, or 73 AF/yr

Industrial/Commercial Facilities. Fifty different commercial and industrial facilities were identified. The aggregate mine was the only facility initially identified as having the potential for substantial water demand; however, a parcel-level analysis may identify additional high-water-use facilities. Further investigation is recommended to understand the water use across the various type of facilities, including if those with transient water users, such as truck stops, have a higher water demand.

Public Water Systems. Twelve small water systems were identified within KNDLA, although some are only partially located within the area. Because groundwater pumping data were not readily available, water demands were estimated based on population. The use of metered water records could improve the accuracy of these demand estimates.

Kern County Parks and Recreation Facilities. Numerous park and recreational facilities are located along the Kern River in the East Margin HCM Area. Information on water demands and the relative use of surface water versus groundwater was not readily available. Consequently, water demands were estimated and should be refined using official records from the County of Kern.

Lake Webb. Lake Webb has annual losses of about 7,000 to 8,000 AF/year, but the evaporation losses are only about 4,000 AF/year. More analysis is needed to determine the type and magnitude of the losses, and how much may be seepage, which would offset groundwater pumping by Kern County. Some losses may be discrepancies due to metering errors (on inflows and outflows) or unmetered withdrawals. No specific data is available on seepage or seepage potential.

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6 COMPARISON TO PREVIOUS WATER DEMAND ESTIMATES

Table 6-1 compares assumptions and water demands by category between the 2025 GSP water budget and the new water demand estimates in this report.

Table 6-1: Comparison of Water Demand Estimates

No.	Land Use	2025 GSP (AF/yr)			Recent Estimates – WY 2025 (AF/yr)[1]
		KNDLA (w/o EWMA)	EWMA	Total	
1	Ag/Farmland	-	-	-	0
2	Animal Facility	-	-	-	126
3	Commercial Sport - Non-irrigated	-	-	-	15
4	Commercial Sports - Irrigated	-	-	-	740
5	Industrial	90	0	90	258
6	Cropped Land Use	16,144	7,195	23,339	28,656
7	Oil Field	-	-	-	0
8	Public Land	-	-	-	2,146
9	Public Water System	950	0	950	1,220
10	Rangeland	-	-	-	206
11	Roadway	-	-	-	0
12	Rural Residential	2,361	117	2,478	646
13	Solar Field	-	-	-	2
14	Water Bodies (Evap.)	7,195	0	7,195	4,317
15	Vacant/Barren Land	-	-	-	0
16	Water Treatment	-	-	-	0
	Total Demands	26,740	7,312	34,052	38,331
	Irrigated Area	7,994	5,558	13,552	13,054
	Imported Water Supplies	18	879	897	11,150

Note:

1) GSP values based on average values from 2020 to 2023. Recent estimates based on recent data, generally for 2025 or within the last 5 years.
2) "–" indicates the item was not specifically addressed and may be included in another category.

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The 2025 GSP values represent average conditions for the 2020 to 2023 period, which is the most recent data available in the 2025 GSP. Recent water demand data, however, are reported for Water Year 2025. Because the reporting periods do not align, the comparison should be considered approximate and intended for general comparison and reference only.

Imported water supplies were reported as 897 AF/yr in the GSP but were estimated at 11,150 AF/yr in 2025. The reasons for this discrepancy are not fully understood. A portion of the difference is attributable to the recent use of approximately 2,400 AF/yr of produced water in the EWMA, which is not reflected in the GSP demand estimates. However, the remaining imported supplies were also available during the 2020-2023 period and do not represent new sources. One possible explanation is that the GSP analyses assumed that these supplies were delivered to neighboring GSAs rather than the KNDLA service area.

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7 PRELIMINARY ACCOUNTING METHODS

This section summarizes preliminary accounting methods and assumptions used in the study. These methods and assumptions may be appropriate for use during implementation of the groundwater allocation policy, especially if groundwater use is not metered, or more specific information on the water user is not available. These assumptions and criteria could also be refined if deemed appropriate, or if additional information is collected. A list of water demand criteria by land use is presented in Table 7-1 below.

Table 7-1: Preliminary Water Demand Accounting Methods

Land Use Category	Description	Criteria
Ag/Farmland (uncultivated), Oil Field, Roadway, Vacant / Barren Land, Water Treatment	-	No water demand
Animal Facility	Daries, feedlots, poultry farms, etc.	0.5 – 2.0 AF/acre/yr
Turfgrass Irrigation	Park and recreational facilities with primarily turf grass	41 inches/acre/yr
Industrial / Commercial	-	1.0 AF/acre/yr over developed areas
Public Lands – State lands, wildlife preserves	-	0.01 AF/acre/yr
Public Water Systems	-	200 gal/capita/day
Rangeland	Cattle rangeland with no irrigation	0.002 AF/acre/yr
Rural Residential	Rural homes outside of public water systems	2.0 AF/yr/home
Solar Field	-	0.007 AF/acre/yr, 0.15 AF/acre/yr during construction
Water Bodies	Open water body evaporation	50 inches/year

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APPENDIX A

Land Use Mapping

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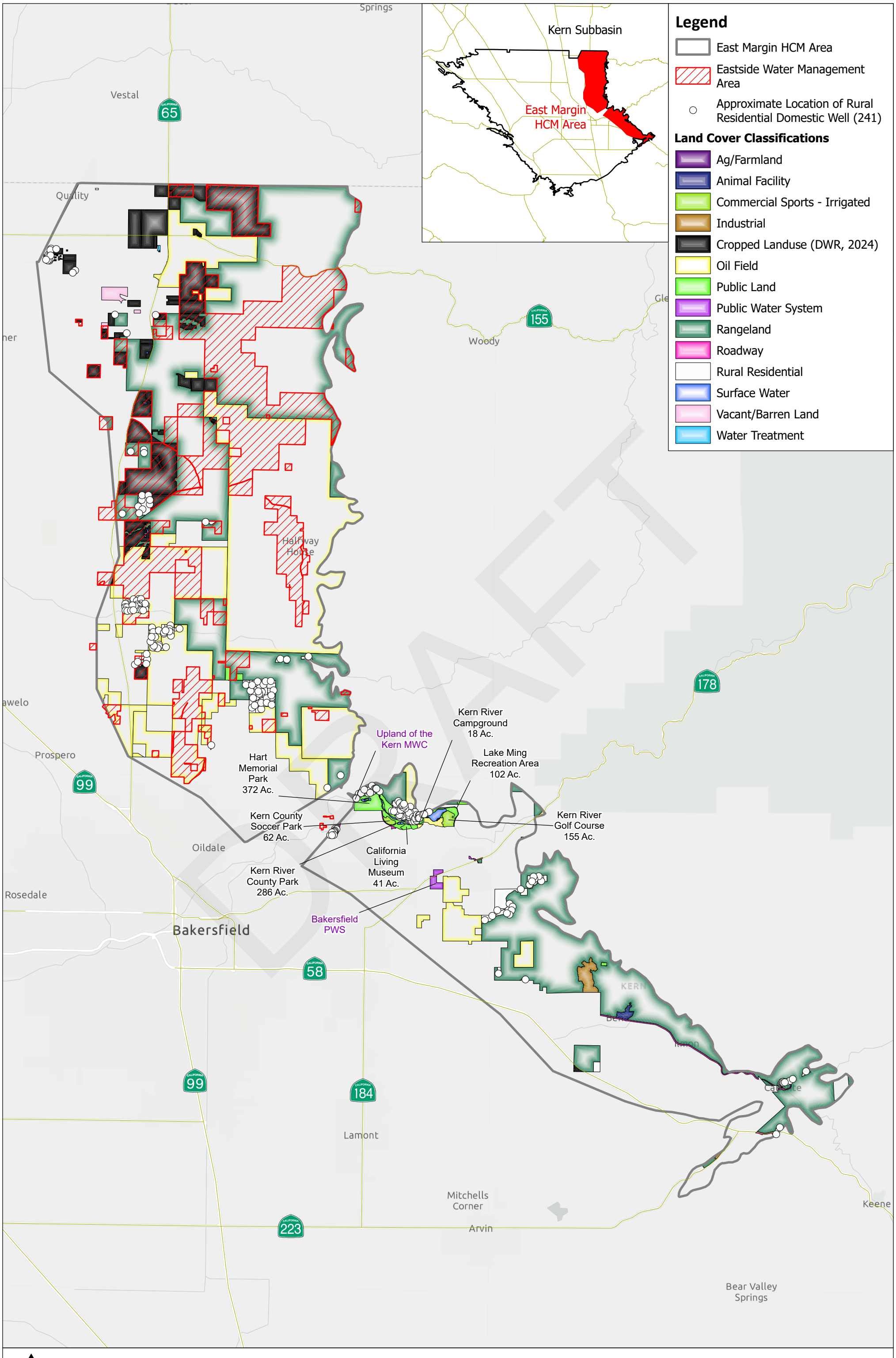

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Miles

Land Use Map - East Margin Hydrogeologic Conceptual Model Area

Kern Non-Districted Land Authority

PROVOST& PRITCHARD

Western Acres MWC
Vaughn WC INC
Upland of the Kern MWC
Riverview Homeowners Association
Round Mountain
Stoco MWC
Lokern Ecological Reserve 238 Ac.
Tule Elk State Reserve 702 Ac.
Kern County Raceway Park 153 Ac.
Kern River
City of Los Angeles Green Acres Farm 2,427 Cropped Ac. 4,725 Total Ac.
Bowerbank
Rio Bravo
Hights Corner
Una
Prospero
Calloway Canal
Meadows Field
Oildale
Oil City
Rosedale
Calders Corner
Greenacres
Bakersfield
Stevens
Tupman
Dustin Acres
Main Canal
Kern River
Kern Subbasin
Kern River Fan HCM Area

Legend

- Kern River Fan HCM Area
- Approximate Location of Rural Residential Domestic Well (61)

Land Cover Classifications

- Commercial Sport - Non-irrigated
- Industrial
- Cropped Landuse (DWR, 2024)
- Oil Field
- Public Land
- Public Water System
- Rangeland
- Roadway
- Rural Residential
- Surface Water
- Vacant/Barren Land

0 2 4
Miles

Land Use Map - Kern River Fan Hydrogeologic Conceptual Model Area

Kern Non-Districted Land Authority

PROVOST& PRITCHARD

Legend

- North Basin HCM Area
- Approximate Location of Rural Residential Domestic Well (14)

Land Cover Classifications

- Ag/Farmland
- Industrial
- Cropped Landuse (DWR, 2024)
- Oil Field
- Public Land
- Public Water System
- Rangeland
- Roadway
- Rural Residential
- Surface Water
- Vacant/Barren Land
- Water Treatment

Kern National Wildlife Refuge
Quality
Delano
Kernell
Pond
Zentner
McFarland
Hollis
Lost Hills
Neufeld
Semitropic
Wasco
North Belridge
Spicer City
Cawelo
Prospero
Shafter
Hights Corner
Lokern Ecological Reserve 2,818 Ac.
Western Acres MWC
Una
Oildale
Bowerbank
Rio Bravo
Rosedale
Buttonwillow CWD
Bakersfield
Stevens
McKittrick
Tupman

Kern Subbasin
North Basin HCM Area

0 2 4
Miles

Land Use Map - North Basin Hydrogeologic Conceptual Model Area

Kern Non-Districted Land Authority

PROVOST& PRITCHARD

Stevens
Tupman
Ilmon
Calient
City of Los Angeles
Green Acres Farm
810 Cropped Ac.
4,725 Total Ac..
119
Lamont
184
Dustin
Acres
Lake
Webb
Mitchells
Corner
223
Arvin
Millux
Bear Valley
Springs
5
San Emidio
Stallion
Springs
166
Mettler
99
Wind
Wolves
Preserve
Bitter Creek
National
Wildlife
Refuge
Grapevine
Kern Subbasin
South Basin
HCM Area

Legend

- South Basin HMC Area
- Approximate Location of Rural Residential Domestic Well (3)

Land Cover Classifications

- Ag/Farmland
- Industrial
- Cropped Landuse (DWR, 2024)
- Oil Field
- Public Land
- Rangeland
- Roadway
- Rural Residential
- Surface Water
- Vacant/Barren Land

0 2 4
Miles

Land Use Map - South Basin Hydrogeologic Conceptual Model Area

Kern Non-Districted Land Authority

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Pixley

Pixley National Wildlife Refuge

Semitropic Ecological Reserve 49 Ac.

Lost Hills Utility District

Lost Hills

Wasco

Lokern Ecological Reserve 1,732 Ac.

Derby Acres

Dustin Acres

Taft

Carrizo Plain National Monument

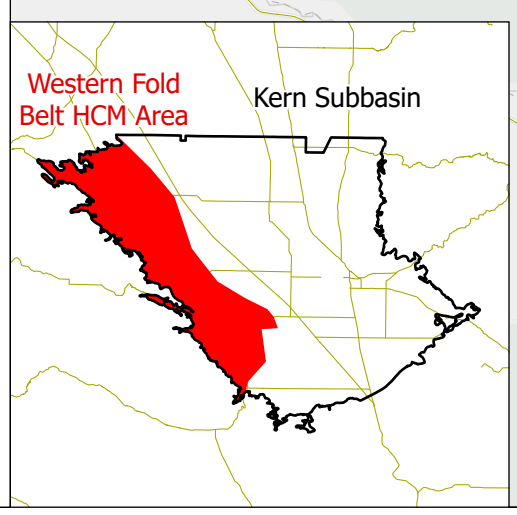
Bitter Creek National Wildlife Refuge

Legend

- Western Fold Belt HCM Area
- Approximate Location of Rural Residential Domestic Well (4)

Land Cover Classifications

- Ag/Farmland
- Industrial
- Cropped Landuse (DWR, 2024)
- Oil Field
- Public Land
- Public Water System
- Rangeland
- Roadway
- Rural Residential
- Solar Field
- Surface Water
- Vacant/Barren Land



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Land Use Map - Western Fold Belt Hydrogeologic Conceptual Model Area

Kern Non-Districted Land Authority

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APPENDIX B

Water Demands by Hydrogeologic Conceptual Model Areas

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Kern Non-Districted Lands Authority

Eastside Water Management Area

Land Classification	Area (acres)	Demands		Supplies			Water Supply Deficit (AF/yr)
		Unit Demand (AF/acre)	Total Demand (AF/yr)	Native Yield (0.15 AF/acre)	Native Yield Used (AF/yr)	Imported Water (AF/yr)	
Ag/Farmland	22	0.0	0	3	0	0	0
Animal Facility	0	1.0	0	0	0	0	0
Commercial Sport - Non-irrigated	0	0.1	0	0	0	0	0
Commercial Sports - Irrigated	0	3.4	0	0	0	0	0
Industrial	0	0.1	0	0	0	0	0
Cropped Land Use	5,952	Land IQ Estimates	13,337	893	893	2,400	10,044
Oil Field	13,619	0.0	0	2,043	0	0	0
Public Land	1	0.01	0	0	0	0	0
Public Water System	2	0.0	0	0	0	0	0
Rangeland	15,209	0.002	30	2,281	30	0	0
Roadway	1	0.0	0	0	0	0	0
Rural Residential	231	13 wells @ 2 AF/well	26	35	26	0	0
Solar Field	0	0.007	0	0	0	0	0
Water Bodies (evaporation)	21	50 in/yr x 21 acres	88	3	3	0	84
Vacant/Barren Land	2,499	0.0	0	375	0	0	0
Water Treatment	0	0.0	0	0	0	0	0
Grand Total	**37,556**	**-**	**13,481**	**5,633**	**952**	**2,400**	**10,128**

Notes: 1) Deficit is current overpumping of groundwater
2) Analysis does not account for groundwater transfers to contiguous properties with the same landowner

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Kern Non-Districted Lands Authority

East Margin HCM Area (excluding EWMA)

Land Classification	Area (acres)	Demands		Supplies			Water Supply Deficit (AF/yr)
		Unit Demand (AF/acre)	Total Demand (AF/yr)	Native Yield (0.15 AF/acre)	Native Yield Used (AF/yr)	Imported Water (AF/yr)	
Ag/Farmland	0	0.0	0	0	0	0	0
Animal Facility	126	1.0	126	19	19	0	107
Commercial Sport - Non-irrigated	0	0.1	0	0	0	0	0
Commercial Sports - Irrigated	218	3.4	740	33	33	0	707
Industrial	442	0.1	44	66	44	0	0
Cropped Land Use	2,340	Land IQ Estimates	3,548	351	351	0	3,197
Oil Field	37,493	0.0	0	5,624	0	0	0
Public Land	960	2.0	1,920	144	144	1,776	0
Public Water System	178	1,062 population x 200 gpcpd	238	27	27	0	211
Rangeland	50,481	0.002	101	7,572	101	0	0
Roadway	387	0.0	0	58	0	0	0
Rural Residential	3,085	228 wells @ 2 AF/well	456	463	456	0	0
Solar Field	0	0.007	0	0	0	0	0
Water Bodies (evaporation)	244	50 in/yr x 147 acres	613	37	37	564	12
Vacant/Barren Land	1,459	0.0	0	219	0	0	0
Water Treatment	13	0.0	0	2	0	0	0
Grand Total	**97,426**	**-**	**7,786**	**14,614**	**1,211**	**2,340**	**4,235**

Notes: 1) Deficit is current overpumping of groundwater
2) Analysis does not account for groundwater transfers to contiguous properties with the same landowner

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Kern Non-Districted Lands Authority

Kern River Fan HCM Area

Land Classification	Area (acres)	Demands		Supplies			Water Supply Deficit (AF/yr)
		Unit Demand (AF/acre)	Total Demand (AF/yr)	Native Yield (0.15 AF/acre)	Native Yield Used (AF/yr)	Imported Water (AF/yr)	
Ag/Farmland	0	0.0	0	0	0	0	0
Animal Facility	0	1.0	0	0	0	0	0
Commercial Sport - Non-irrigated	153	0.1	15	23	15	0	0
Commercial Sports - Irrigated	0	3.4	0	0	0	0	0
Industrial	259	0.1	26	39	26	0	0
Cropped Land Use	2,069	Land IQ Estimates	4,272	310	310	3,825	137
Oil Field	6,949	0	0	1,042	0	0	0
Public Land	940	0.01	9	141	9	0	0
Public Water System	570	775 population x 200 gpcpd	174	86	86	0	88
Rangeland	141	0.002	0	21	0	0	0
Roadway	158	0	0	24	0	0	0
Rural Residential	258	61 wells @ 2AF/well	122	39	39	0	83
Solar Field	0	0.007	0	0	0	0	0
Water Bodies (evaporation)	238	50 in/yr x 5 acres	21	36	21	0	0
Vacant/Barren Land	1,963	0	0	294	0	0	0
Water Treatment	0	0	0	0	0	0	0
Grand Total	**13,698**	**-**	**4,639**	**2,055**	**506**	**3,825**	**308**

Notes: 1) Deficit is current overpumping of groundwater
2) Analysis does not account for groundwater transfers to contiguous properties with the same landowner

DRAFT

Kern Non-Districted Lands Authority

North Basin HCM Area

Land Classification	Area (acres)	Demands		Supplies			Water Supply Deficit (AF/yr)
		Unit Demand (AF/acre)	Total Demand (AF/yr)	Native Yield (0.15 AF/acre)	Native Yield Used (AF/yr)	Imported Water (AF/yr)	
Ag/Farmland	14	0.0	0	2	0	0	0
Animal Facility	0	1.0	0	0	0	0	0
Commercial Sport - Non-irrigated	0	0.1	0	0	0	0	0
Commercial Sports - Irrigated	0	3.4	0	0	0	0	0
Industrial	130	0.1	13	20	13	0	0
Cropped Land Use	1,652	Land IQ Estimates	4,503	248	248	370	3,885
Oil Field	652	0	0	98	0	0	0
Public Land	847	0.01	8	127	8	0	0
Public Water System	560	1,683 population x 200 gpcpd	377	84	84	0	293
Rangeland	3	0.002	0	0	0	0	0
Roadway	57	0	0	9	0	0	0
Rural Residential	113	14 wells @ 2 AF/well	28	17	17	0	11
Solar Field	0	0.007	0	0	0	0	0
Water Bodies (evaporation)	123	0 acres	0	18	0	0	0
Vacant/Barren Land	6,019	0	0	903	0	0	0
Water Treatment	19	0	0	3	0	0	0
Grand Total	**10,191**	**-**	**4,929**	**1,529**	**370**	**370**	**4,189**

Notes: 1) Deficit is current overpumping of groundwater
2) Analysis does not account for groundwater transfers to contiguous properties with the same landowner

DRAFT

Kern Non-Districted Lands Authority

South Basin HCM Area

Land Classification	Area (acres)	Demands		Supplies			Water Supply Deficit (AF/yr)
		Unit Demand (AF/acre)	Total Demand (AF/yr)	Native Yield (0.15 AF/acre)	Native Yield Used (AF/yr)	Imported Water (AF/yr)	
Ag/Farmland	43	0.0	0	6	0	0	0
Animal Facility	0	1.0	0	0	0	0	0
Commercial Sport - Non-irrigated	0	0.1	0	0	0	0	0
Commercial Sports - Irrigated	0	3.4	0	0	0	0	0
Industrial	857	0.1	86	129	86	0	0
Cropped Land use	845	Land IQ Estimates	2,361	127	127	1,675	559
Oil Field	6,552	0	0	983	0	0	0
Public Land	15,444	0.01	154	2,317	154	0	0
Public Water System	0	0	0	0	0	0	0
Rangeland	2,653	0.002	5	398	5	0	0
Roadway	4	0	0	1	0	0	0
Rural Residential	27	3 wells @ 2 AF/well	6	4	4	0	2
Solar Field	0	0.007	0	0	0	0	0
Water Bodies (evaporation)	863	50 inch/yr x 863 acres	3,596	129	129	540	2,926
Vacant/Barren Land	3,643	0	0	546	0	0	0
Water Treatment	0	0	0	0	0	0	0
Grand Total	**30,931**	**-**	**6,208**	**4,640**	**506**	**2,215**	**3,488**

Notes: 1) Deficit is current overpumping of groundwater

2) Analysis does not account for groundwater transfers to contiguous properties with the same landowner

DRAFT

Kern Non-Districted Lands Authority

Western Fold Belt HCM Area

Land Classification	Area (acres)	Demands		Supplies			Water Supply Deficit (AF/yr)
		Unit Demand (AF/acre)	Total Demand (AF/yr)	Native Yield (0.15 AF/acre)	Native Yield Used (AF/yr)	Imported Water (AF/yr)	
Ag/Farmland	193	0.0	0	29	0	0	0
Animal Facility	0	1.0	0	0	0	0	0
Commercial Sport - Non-irrigated	0	0.1	0	0	0	0	0
Commercial Sports - Irrigated	0	3.4	0	0	0	0	0
Industrial	889	0.1	89	133	89	0	0
Cropped Land Use	196	Land IQ Estimates	635	29	29	0	606
Oil Field	26,565	0	0	3,985	0	0	0
Public Land	5,364	0.01	54	805	54	0	0
Public Water System	224	1,926 population x 200 gpcd	432	34	34	0	398
Rangeland	34,432	0.002	69	5,165	69	0	0
Roadway	54	0	0	8	0	0	0
Rural Residential	60	4 wells @ 2AF/well	8	9	8	0	0
Solar Field	239	0.007	2	36	2	0	0
Water Bodies (evaporation)	211	0	0	32	0	0	0
Vacant/Barren Land	21,388	0	0	3,208	0	0	0
Water Treatment	0	0	0	0	0	0	0
Grand Total	**89,815**	**-**	**1,288**	**13,472**	**284**	**0**	**1,004**

Notes: 1) Deficit is current overpumping of groundwater

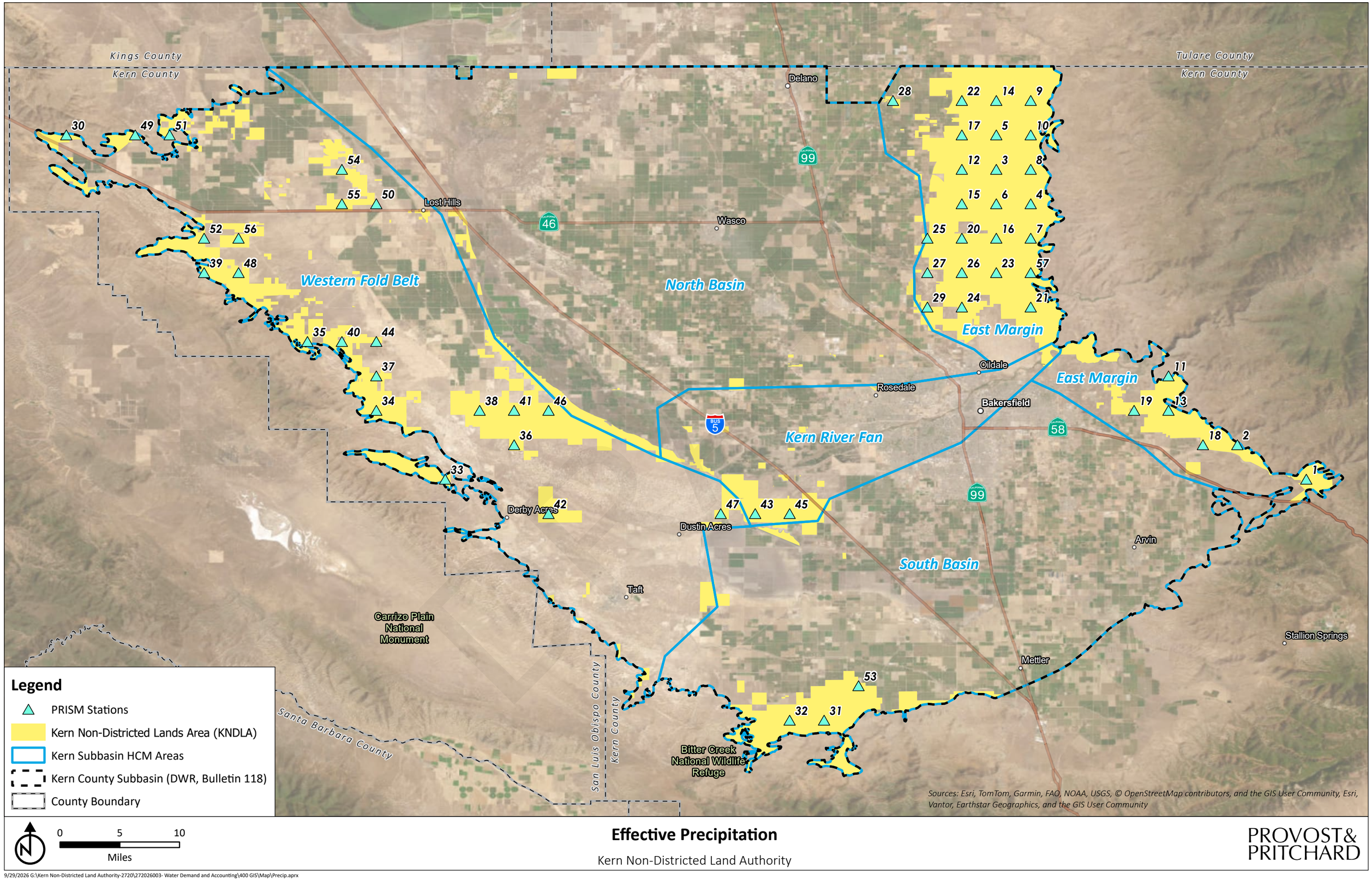
2) Analysis does not account for groundwater transfers to contiguous properties with the same landowner

DRAFT

APPENDIX C

Effective Precipitation Calculations

DRAFT



0 5 10
Miles

Effective Precipitation

Kern Non-Districted Land Authority

PROVOST& PRITCHARD

Kern Non-Districted Lands Authority
Estimated Effective Precipitation

Location	Effective Precip. (in/yr)
1	8.2
2	7.8
3	8.2
4	8.0
5	8.3
6	7.9
7	7.7
8	8.2
9	8.6
10	8.5
11	7.5
12	8.0
13	7.5
14	8.2
15	7.8
16	7.6
17	8.0
18	7.4
19	7.2
20	7.5
21	7.2
22	7.8
23	7.1
24	7.1
25	7.2
26	7.1
27	6.8
28	7.1
29	6.7
30	8.0

Location	Effective Precip. (in/yr)
31	6.4
32	6.3
33	6.7
34	6.5
35	5.9
36	6.0
37	5.8
38	5.6
39	6.7
40	5.5
41	5.6
42	6.2
43	5.9
44	5.2
45	6.1
46	5.5
47	5.8
48	5.6
49	6.0
50	5.2
51	5.4
52	5.5
53	6.1
54	5.2
55	5.0
56	5.0
57	7.3

DRAFT

Notes:
1) Effective precipitation estimated using the USBR Method
2) Refer to map of KNDLA with precipitation locations evaluated with PRISM precipitation data

To: Kern Delta Water District Board of Directors

From: Steven Teglia – General Manager

Date: November 17, 2026

Re: Agenda Item VI B. – External Agency Report

RECOMMENDATION:

Receive report, informational item only.

DISCUSSION:

Staff participates in / monitors multiple external agency meetings monthly. Below is a summary including items of note from the various meetings:

Kern County Water Agency:

- The KCWA Board met October 22, 2026.
- Next regular meeting will be November 18, 2026.
- Golden mussel update: KCWA Emergency Action Resolution.
- Update on Water Transfers, Exchanges, and Purchases.
- Update on Delta Conveyance Activities (see schedule attached).
- Update on CVC and Pioneer Operations.
- Approval of amended Pioneer Project Recovery Plan.
- 2026 allocation for SWP – 45%.
- Public Hearing on FY 2027-28 Zones of Benefit Report.
- Update on construction/maintenance projects.
- Summary of groundwater and overdraft correction accounts (attached).

Member Unit Manager Meeting:

- The Member Unit Mangers met October 8, 2026.
- Update regarding golden mussels.
- Update on Healthy Rivers and Landscapes.
- Update on SWP Subsidence.
- Update DWR Debt Service Billing Project.
- SWP Contractor Dry Year Program / HHS modification effort.

Kern Fan Authority:

- The KFA did not meet in October.

- 2026 Water Supply.
- Review of KCWA Board agenda.
- Pioneer Project.
- CVC – Nord Turnout Construction Project.
- Local SGMA activities.
- Other activities (IRWMP/CVSALTS).

Kern River Groundwater Sustainability Agency (KRGSA):

- The KRGSA November 5, 2026 Meeting was Canceled (agenda attached). Special meeting to be held November 19, 2026 at 9:00AM.
- Basin Coordination Committee update.
- Approval of KRGSA cash call.
- Approval of Subbasin Well Mitigation Program Version 3.0.
- Approval of Subbasin Cost Share Agreements 27-01 & 27-02.
- Approval of Subbasin Scopes of work with Todd GW for Subbasin Annual Report and Subbasin Model refinements.

Kern Non-District Land Authority (KNDLA):

- The KNDLA met November 9, 2026 (agenda attached).
- Financial reports.
- Demand Management Update.
- 2026 meeting date changes.
- Approval of 2027 KNDLA Budget.
- Approval of Subbasin Well Mitigation Program Version 3.0.
- Approval of Subbasin Exceedance Policy, Action Plan, and Degraded Water Quality Implementation Provisions.
- Approval of Subbasin Cost Shate Agreements 27-01 & 27-02.
- KNDLA meeting scheduled for 4th Monday of the month.

Kern River Watershed Coalition Authority (KRWCA)(ILRP):

- The KRWCA met November 5, 2026 (agenda attached).
- Kern Water Collaborative Update – Nitrate Control Program Management Zone.
- Membership Update.
- SGMA Coordination.
- Kern Water Collaborative Update.
- Outreach and education update.
- On Farm Drinking Water Well reports due Dec. 31, 2026.
- Updates regarding the status of various reports.

South Valley Water Resources Authority:

- The SVWRA met October 22, 2026.
- Fish Friendly Diversion Demonstration Project update – preliminary construction budget.
- 2027 Budget Approval
- FFD Yield Study Request.
- Blueprint activity update.
- Authority logo development.

Integrated Regional Water Management Plan (IRWMP):

- No recent meetings.

Water Association of Kern County (WAKC):

- WAKC met October 27, 2026.
- WAKC Annual Dinner – November 4, 2026 (Budak and Parker).
- Edmonston Tour – possibly in January.
- California Water Plan Regional Workshop – possibly in spring.

Kern County Water Agency
Estimated Summary of Groundwater Bank Accounts
As of September 30, 2026

Preliminary - Subject to Revision

Quantities in acre-feet

District	Estimated Balance as of December 31, 2025	Estimated Balance as of September 30, 2026					
		Pioneer Property	2800 Acres	Pioneer Project Subtotal	Berrenda Mesa	Kern Water Bank	Total
Belridge WSD	103,767	92,262	9,805	102,067	5,007	0	107,074
Berrenda Mesa WD	112,167	71,275	6,233	77,508	38,449	0	115,957
Buena Vista WSD	44,696	42,879	2,648	45,527	0	12	45,539
Cawelo WD	0	0	0	0	0	0	0
Dudley Ridge WD	74,587	0	0	0	0	93,628	93,628
Henry Miller WD	18,181	19,545	746	20,291	0	0	20,291
Improvement District No. 4	243,891	46,116	9,253	55,369	0	180,315	235,684
Kern County Water Agency	195,912	112,421	62,475	174,896	3,499	17,958	196,353
Kern Delta WD	32,017	37,131	0	37,131	0	0	37,131
Lost Hills WD	97,397	70,539	23,929	94,468	6,345	0	100,813
Rosedale-Rio Bravo WSD	42,313	42,313	0	42,313	0	0	42,313
Semitropic WSD	281,415	26,473	2,503	28,976	0	241,150	270,126
Tehachapi-Cummings CWD	5,820	0	0	0	0	5,820	5,820
Tejon-Castac WD	65,781	2,552	1,289	3,841	0	57,757	61,598
Westside Mutual Water Co.	500,639	0	0	0	0	515,829	515,829
Wheeler Ridge-Maricopa WSD	273,579	27,911	11,303	39,214	5,743	228,091	273,048
Total	2,092,162	591,417	130,184	721,601	59,043	1,340,560	2,121,204

Kern County Water Agency
Estimated Summary of Overdraft Correction Accounts
As of September 30, 2026

Preliminary - Subject to Revision

Quantities in acre-feet

District	Estimated Balance as of December 31, 2025	Estimated Balance as of September 30, 2026					
		Pioneer Property	2800 Acres	Pioneer Project Subtotal	Berrenda Mesa	Kern Water Bank [1]	Total
Buena Vista WSD	72,219	60,864	0	60,864	0	11,355	72,219
Henry Miller WD	90,206	63,106	375	63,481	2,584	24,141	90,206
Kern County Water Agency	55,030	35,356	7,121	42,477	0	12,553	55,030
Kern Delta WD	99,581	73,102	587	73,689	2,456	32,887	109,032
Rosedale-Rio Bravo WSD	236,702	179,998	5,298	185,296	4,471	57,208	246,975
Total	553,738	412,426	13,381	425,807	9,511	138,144	573,462

[1] Does not include purchase of 2011 4% reserve water.

NOTICE OF CANCELLATION

OF THE REGULAR MEETING

AND NOTICE OF A SPECIAL MEETING

OF THE

KERN RIVER GROUNDWATER SUSTAINABILITY AGENCY MEETING

NOTICE IS HEREBY GIVEN that the Kern River Groundwater Sustainability Agency Regular Meeting to be held on November 5, 2026 at 10:00 a.m. in the Large Conference Room at Bakersfield City Water Resources Department, 1000 Buena Vista Road, Bakersfield California 93311 has been canceled.

NOTICE IS HEREBY FURTHER GIVEN that the Kern River Groundwater Sustainability Agency will hold a **Special Meeting on November 19, 2026, at 9:00 a.m.** in the Large Conference Room at Bakersfield City Water Resources Department, 1000 Buena Vista Road, Bakersfield California 93311.

/s/ RODNEY PALLA

CHAIR
KERN RIVER GROUNDWATER SUSTAINABILITY AGENCY

Dated: October 29, 2026

KERN NON-DISTRICTED LAND AUTHORITY

(FORMERLY KERN GROUNDWATER AUTHORITY)

3200 Rio Mirada Drive, Bakersfield, CA 93308
Special Meeting of the Board of Directors
November 9, 2026, 2:00 p.m.

To virtually attend the meeting and to be able to view any presentations or additional materials provided at the meeting, please join online using the link and information below:
https://us02web.zoom.us/j/87916828311?pwd=MXovFd9w4IFdX8AnOTJBUbbKBagIaC.1
Telephone Dial-in: (669) 900-6833
Meeting ID: 879 1682 8311
Password: 795650

KERN NON-DISTRICTED LAND AUTHORITY BOARD OF DIRECTORS AGENDA

This meeting is held in accordance with the Brown Act pursuant to Section 54956 of the California Government Code and the Kern Non-Districted Land Authority Joint Powers Agreement.

1. **Roll Call- Quorum Determination.**
   In the absence of a quorum, the Board will handle only those items not needing a quorum.

2. **Flag Salute**

3. **Public Input**
   This portion of the meeting is set aside to provide the public with an opportunity to bring to the attention of the Board matters of which the Board may not be aware and which are not on the current agenda. No action can be taken on any matter raised during this portion of the meeting; however, a Board member may request that the matter be placed on any future agenda for further review and possible action. Members of the public may directly address the Board of Directors on any item of interest within the Board's subject matter jurisdiction, before or during the Board's consideration of the item. The Chair may limit the time allowed for comment

4. **Approval of Minutes**
   a. *September 28, 2026

5. **Financial Report**
   a. *Financial Reports and Accounts Payables
   b. * Consideration and Approval of Cost Sharing Agreements 27-01 and 27-02
   c. *2027 Budget

6. **Administration**
   a. Executive Director Report

7. **Technical Update**
   a. *Review, Accept and Authorize Subsidence Exceedance Investigation Report sent to DWR

8. **Subbasin Mitigation and Exceedance Policy Program Updates**
   a. *Consideration and Approval of the Kern County Subbasin Well Mitigation Program Version 3.0
   b. *Consideration and Approval of Exceedance Policy and Action Plans Version 3.0 and Degraded Water Quality Implementation Provisions Version 2.0

9. **Legal (Valerie)**
   a. Statewide Update

10. **New Business**

11. **Correspondence**

12. **Closed Session**
   a. **Conference with legal counsel – anticipated litigation**
   Significant exposure to litigation pursuant to subdivision (d)(2) of Government Code Section 54956.9. Two matters; Development groundwater demand management program; FHE agreement

13. **Adjournment**

A person with a qualifying disability under the Americans with Disabilities Act of 1990 may request the Authority provide disability-related modification or accommodation in order to participate in any public meeting of the Authority. Such assistance includes appropriate alternative formats for the agendas and agenda packets. Requests should be made in person, by telephone, facsimile and/or written correspondence to the Authority office, at least 48 hours before a public Authority meeting. Written materials related to an item on this agenda to be considered in open session that are public documents and that are distributed to board members after the posting of the agenda, will be made available for public inspection when they are so distributed at the location of the KNDLA meeting during normal business hours. Documents that are public documents provided by others during a meeting will be available at the same location during business hours after the meeting.

To: Kern Delta Water District Board of Directors

From: Steven Teglia – General Manager

Date: November 17, 2026

Re: Agenda Item VI C. – Water Banking Projects Report

RECOMMENDATION:
Receive report, informational item only.

DISCUSSION:
Below is a summary of activities of note related to various water baking projects/activities of interest to the District.

Kern Fan Recovery Activity:

- As of November 10, 2026, there was 151cfs of recharge activity occurring on the Kern Fan as reported via KCWA weekly call.
- See attached graphs provided by KCWA for Kern Fan banking information as of September 30, 2026.

Pioneer Participant Meeting:

- The Pioneer Project Participants met November 12, 2026.
- Approval of 2027 Pioneer Project Budget.
- Update on current operations.
- Update on Pioneer Improvement Projects.
- Discussion regarding Pioneer GSA.
- Discussion regarding Pioneer Project Agreement Renewal.

Kern Fan Monitoring Committee:

- The Kern Fan Monitoring Committee met September 16, 2026.
- Chair: Tom Suggs/Vice Chair Isela Medina.
- Update on reports.
- Review of water level monitoring hydrographs.
- Update regarding Fiscal Agent.
- Next meeting January 20, 2027.

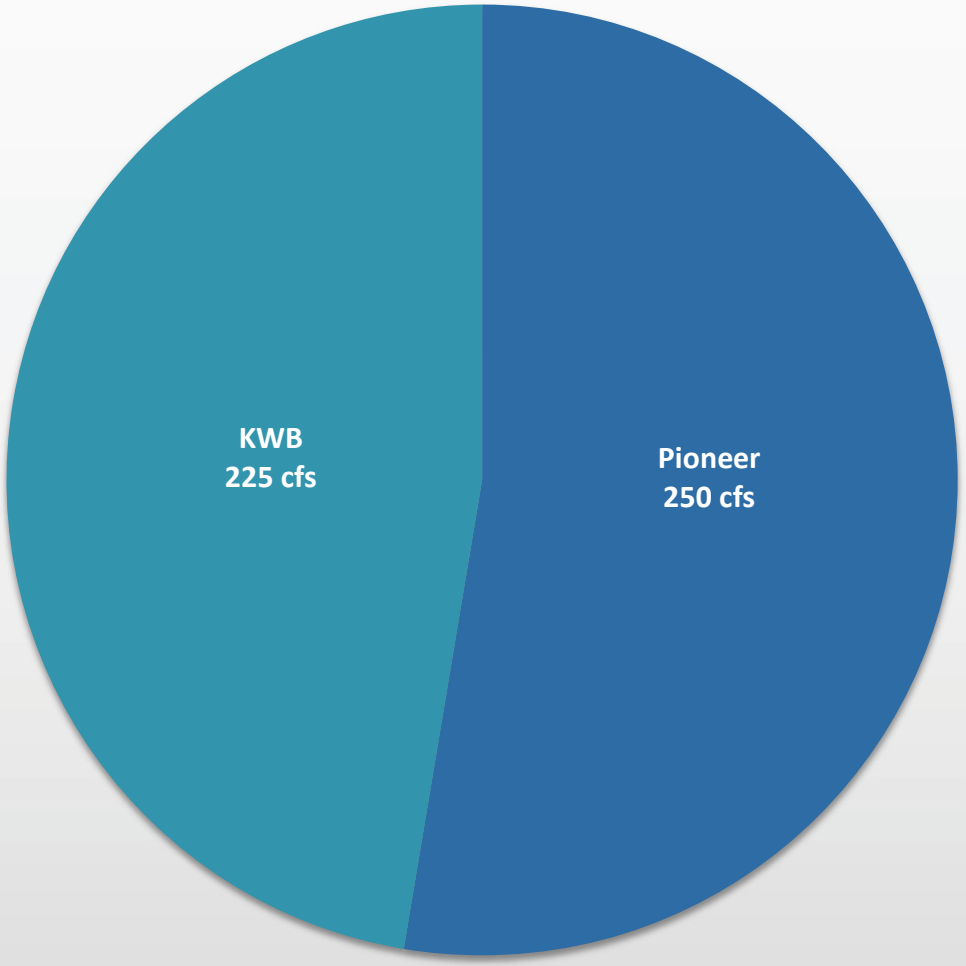
KDWD Water Banking Project:

- No current third-party banking activity.

Cross Valley Canal Advisory Committee:

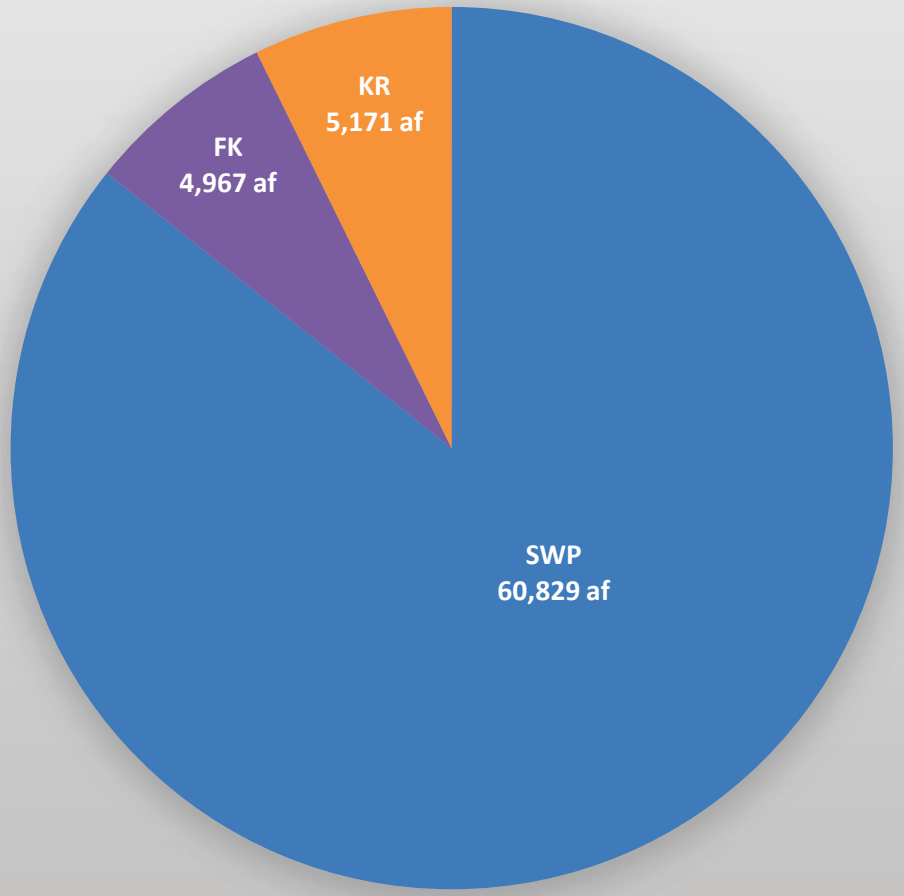
- The CVC Advisory Committee did not meet in October.
- Report on CVC operations.
- CVC Construction and Maintenance Projects.
- Update on golden mussel task force.
- Update on Power Reconciliation Procedure.
- See attached graphs provided by KCWA regarding CVC utilization.

Kern Fan Banking Projects
2026 Current Recharge Operations by Project
Through October 20, 2026

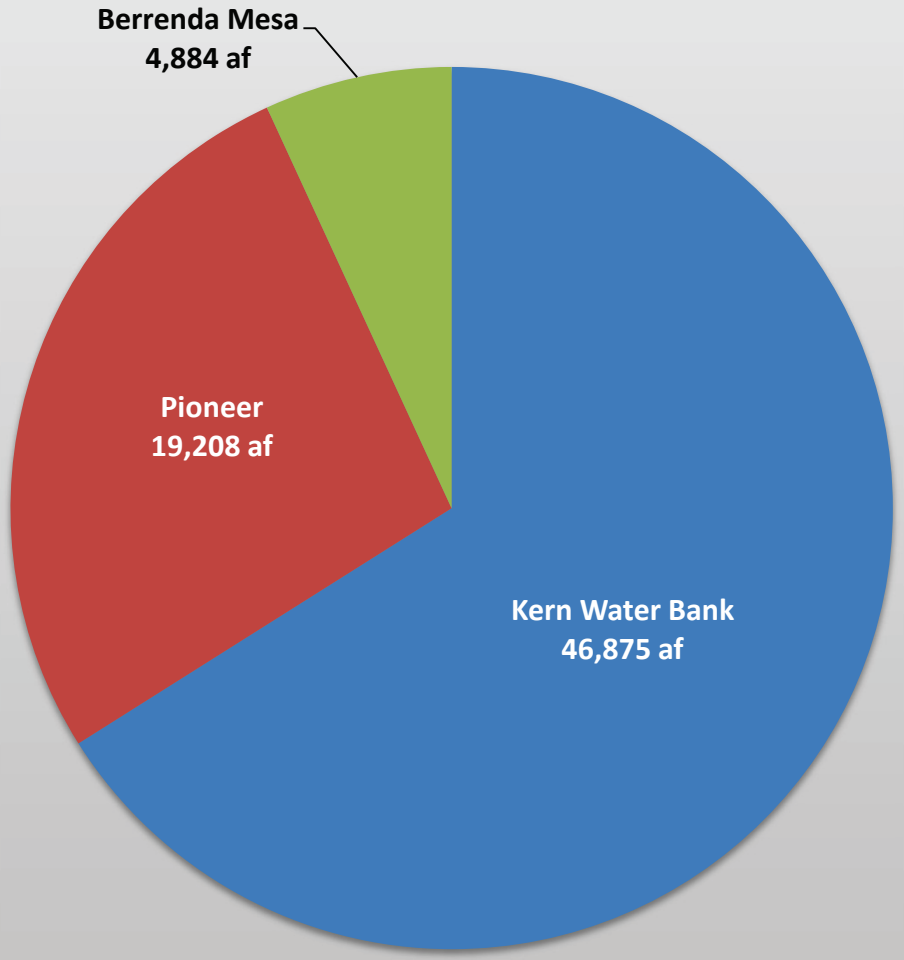


Current Recharge Operations 475 cfs

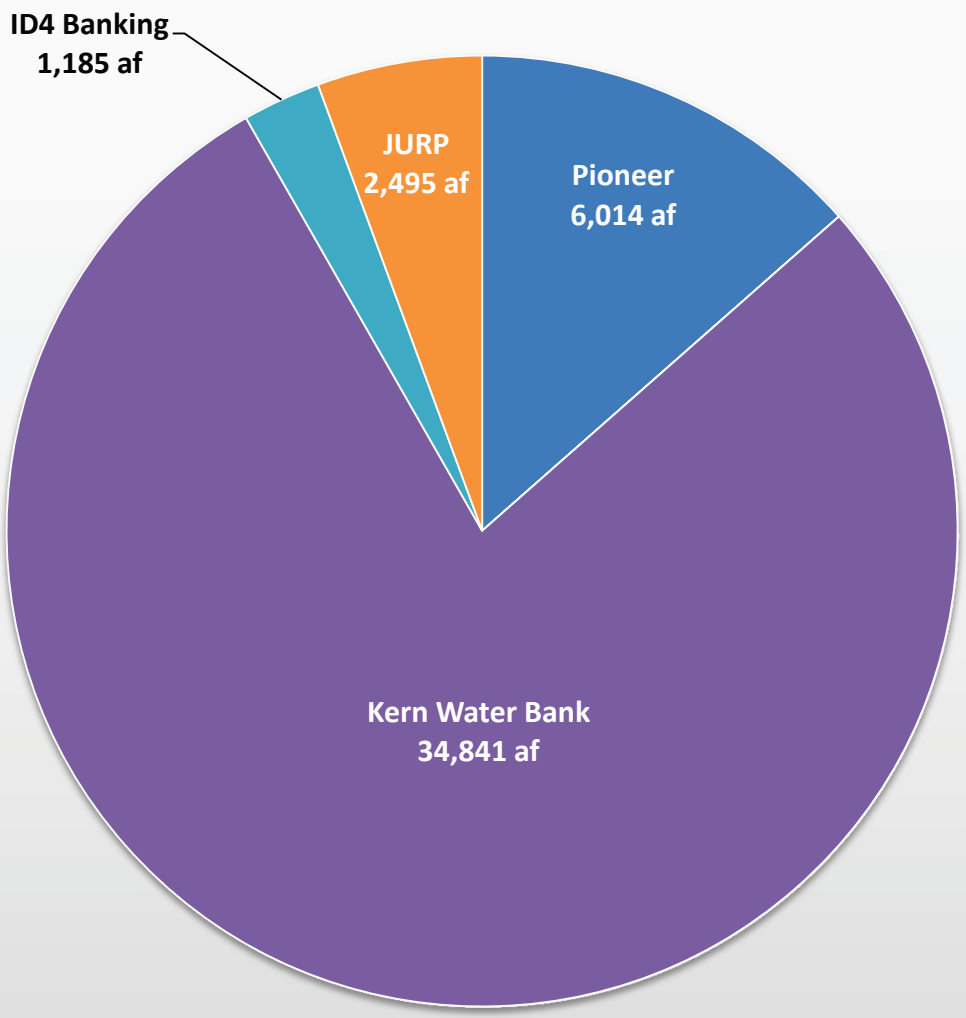
2026 Estimated Kern Fan Banking Project Deliveries
(by Water Type)
Deliveries through September 30, 2026
Total Deliveries 70,967 af



2026 Estimated Kern Fan Banking Project Deliveries
(by Project)
Deliveries through September 30, 2026
Total Deliveries 70,967 af

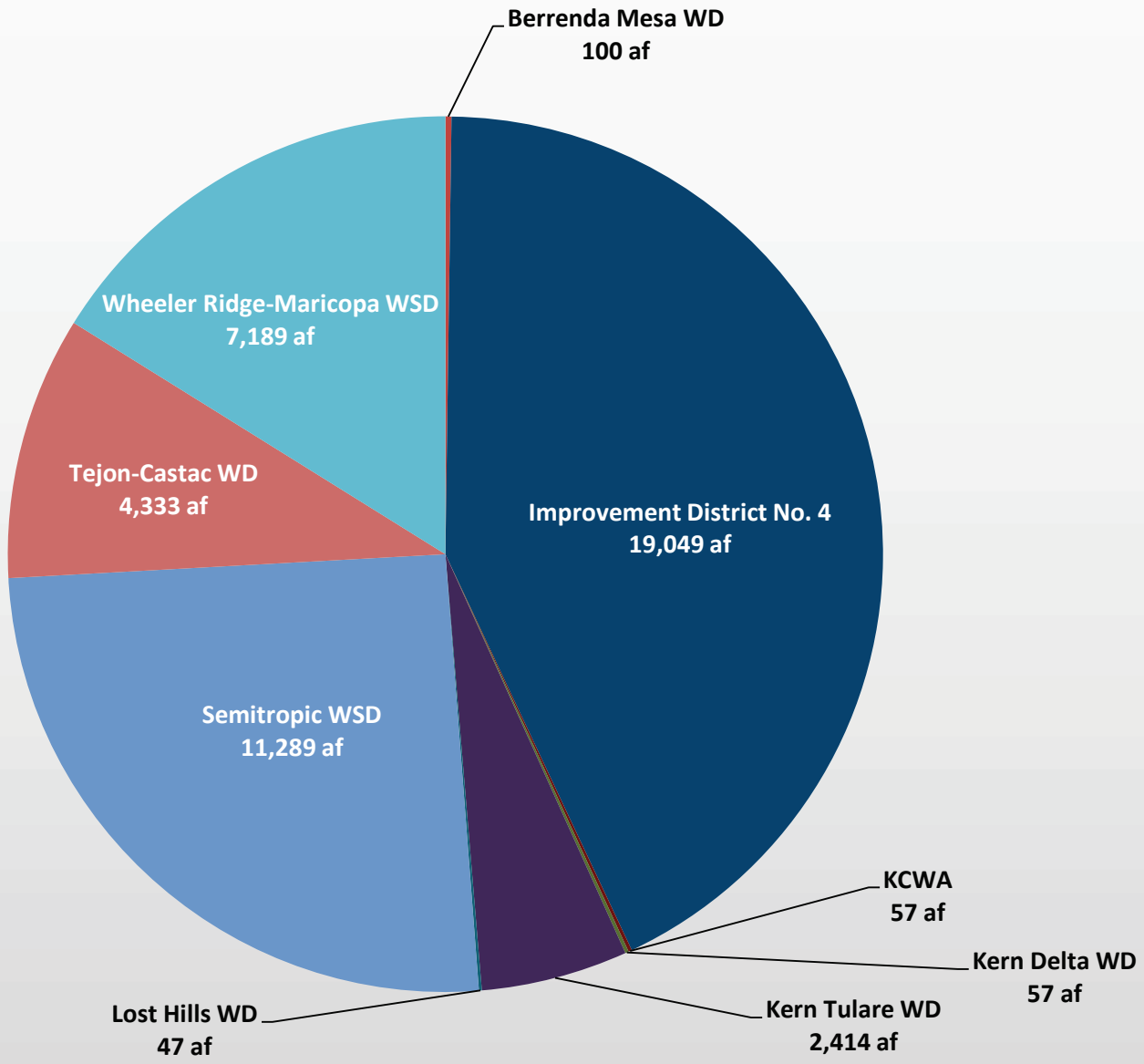


Kern Fan Banking Projects
2026 Estimated Gross Recovery by Project
Through September 30, 2026



Total Gross Recovery 44,535 af

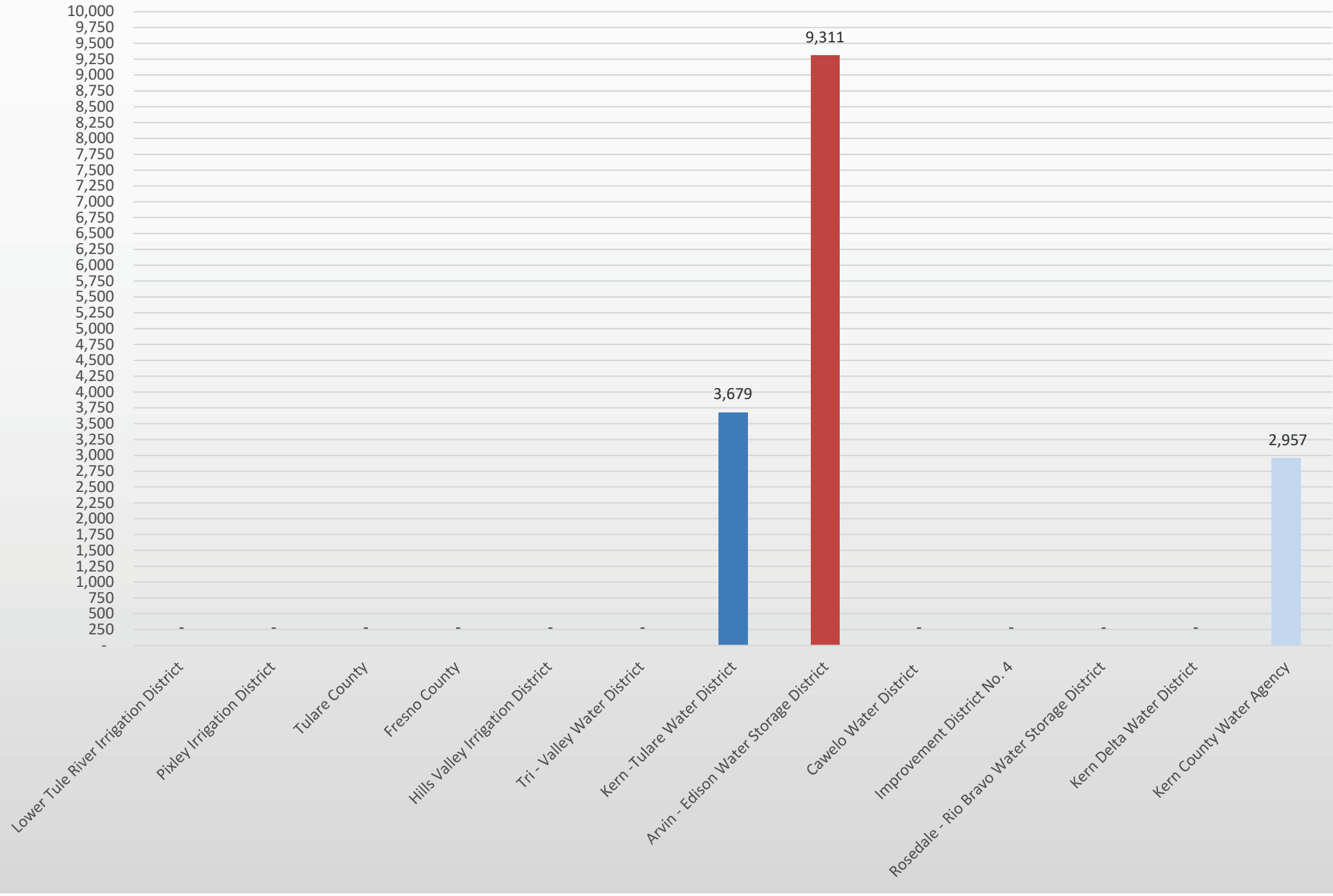
Kern Fan Banking Projects
2026 Estimated Recovery by Participant
Through September 30, 2026



Total Gross Recovery 44,535 af

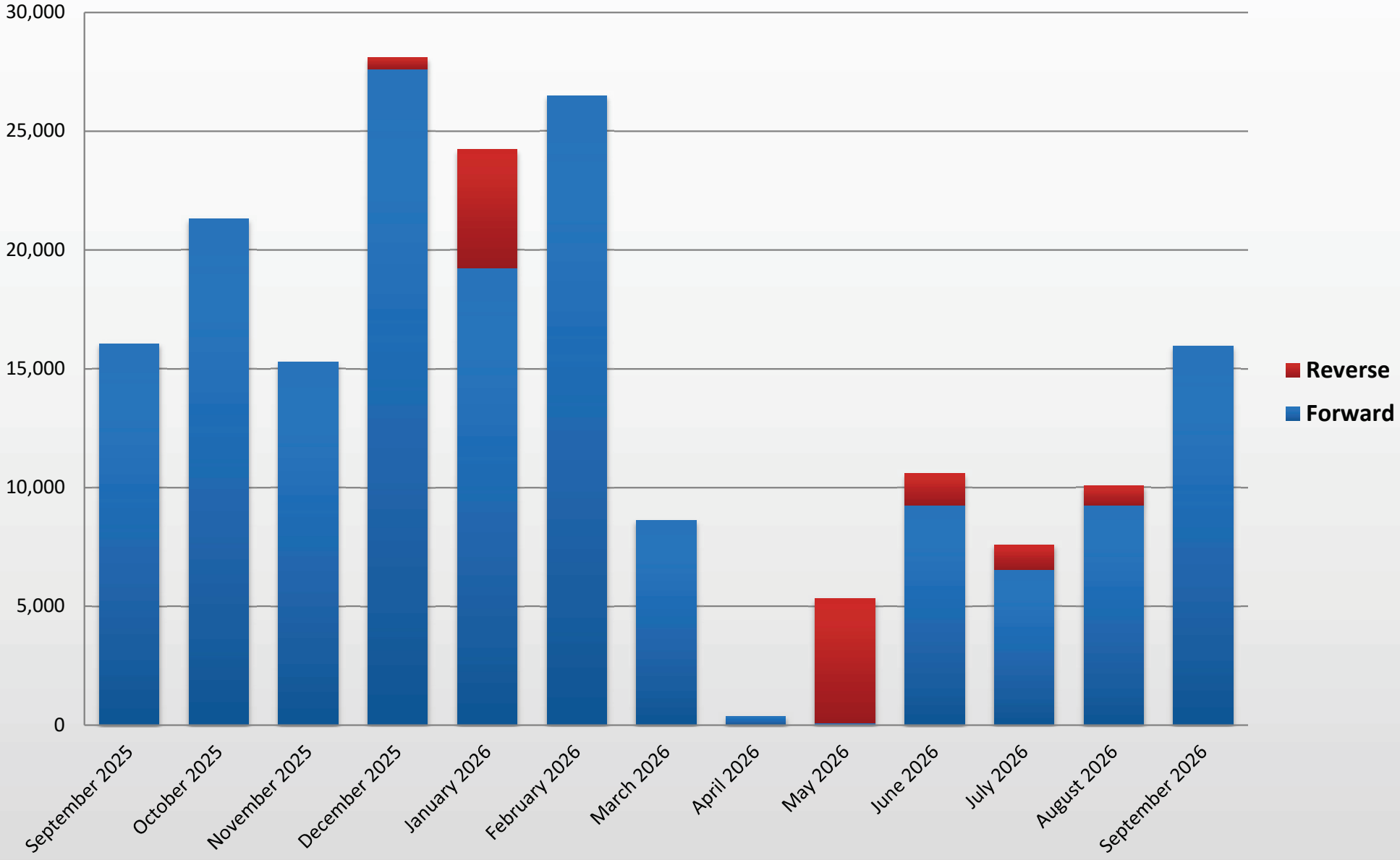
Attachment 2

Cross Valley Canal
September 2026 Deliveries
Total Deliveries 15,947 af



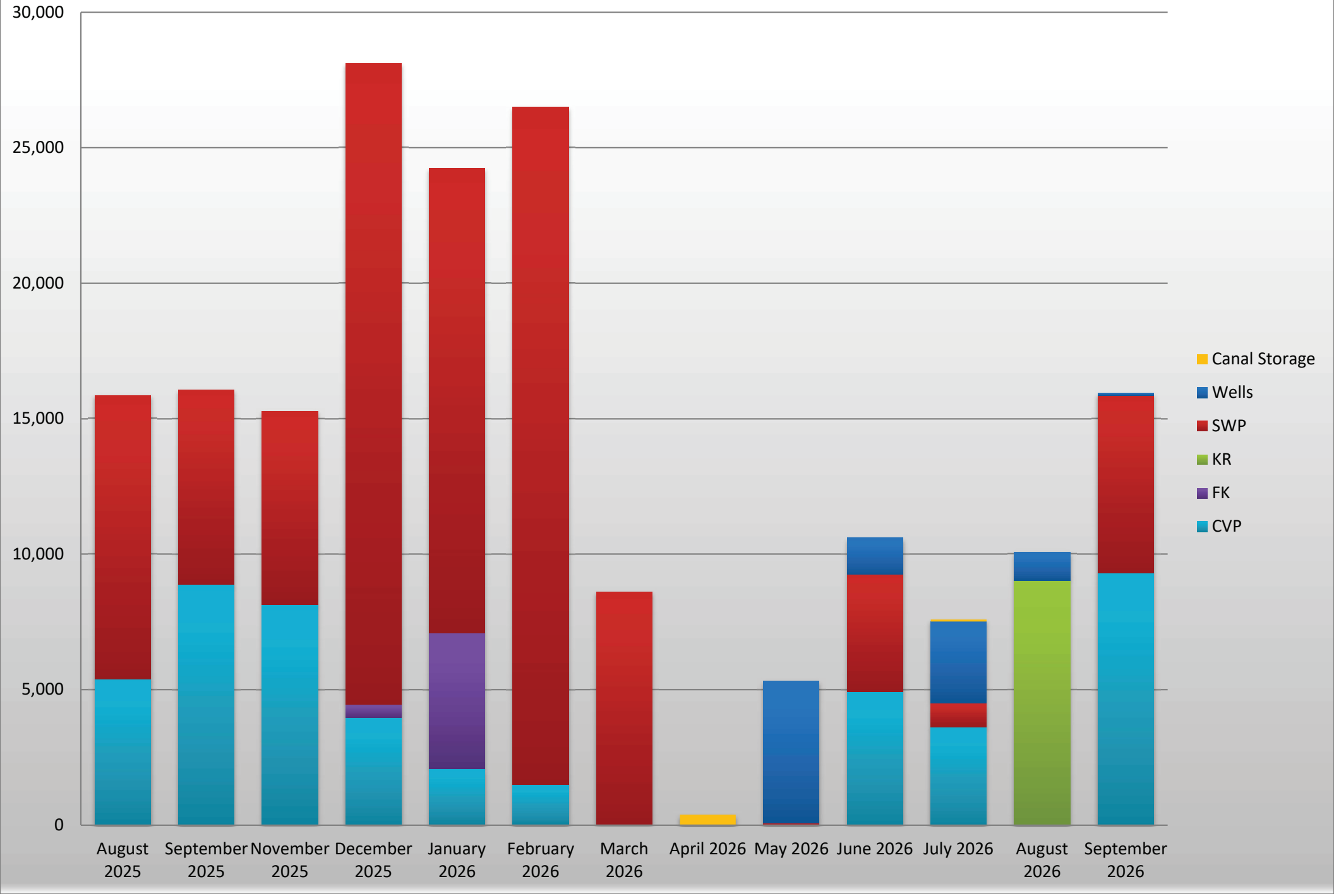
Cross Valley Canal

Twelve Month Delivery by Direction

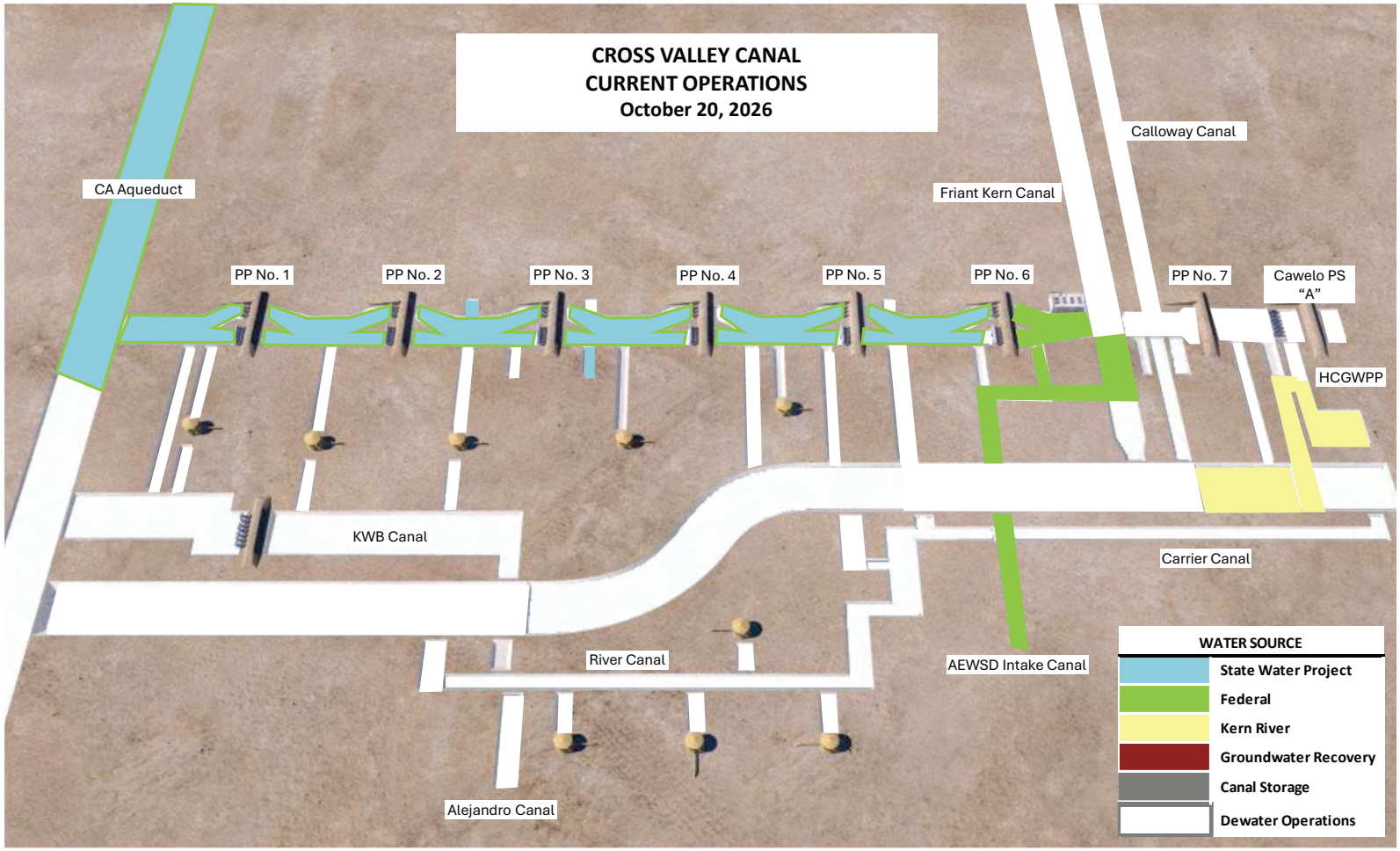


Attachment 3

Cross Valley Canal
Twelve Month Delivery by Source



Attachment 4



Cross Valley Canal

Pump and Flow Configuration

Last Updated on October 7, 2026

		'A' Pumping Plants										'B' Pumping Plants					
		A	**B**	**C**	**D**	**E**	**F**	**G**	**H**	**J**	**Total cfs**	**K**	**L**	**M**	**N**	**Total cfs**	**Total cfs**
Pumping Plant No. 1	Estimated Horsepower	100	250	565	565	565	565	250	100			800	800	800			
	Estimated Flow Rate (cfs)	31	70	180	180	180	180	70	31		**922**	167	167	167		**500**	**1,422**
Pumping Plant No. 2	Estimated Horsepower	100	250	565	565	565	565	250	100			700	700	700			
	Estimated Flow Rate (cfs)	31	70	180	180	180	180	70	31		**922**	167	167	167		**500**	**1,422**
Pumping Plant No. 3	Estimated Horsepower	100	250	565	565	565	250	100	250	100		700	700	700			
	Estimated Flow Rate (cfs)	31	70	180	180	180	70	31	70	31	**843**	167	167	167		**500**	**1,343**
Pumping Plant No. 4	Estimated Horsepower	100	250	565	565	565	250	100	250	100		700	700	700			
	Estimated Flow Rate (cfs)	31	1/1/27	180	180	180	70	31	70	31	**773**	167	167	167		**500**	**1,273**
Pumping Plant No. 5	Estimated Horsepower	100	250	565	565	565	250	100	250	100		700	700	700			
	Estimated Flow Rate (cfs)	31	70	180	180	180	70	31	70	31	**843**	167	167	167		**500**	**1,343**
Pumping Plant No. 6	Estimated Horsepower	100	250	565	565	565	250	250	100			200	600	600	350		
	Estimated Flow Rate (cfs)	31	70	180	180	180	70	70	31		**812**	40	185	185	11/1/26	**410**	**1,222**
Pumping Plant No. 7	Estimated Horsepower	100	250	250	250	250	100										
	Estimated Flow Rate (cfs)	31	70	70	70	70	31				**342**						**342**

Note: Return to service dates are subject to change.

Current spares:

- Bell/Bowl/Impeller sets: 100 hp (31cfs), 250 hp (70cfs) and 400 hp (140 cfs);
- Pump/Appurtenances: 600 hp (200 cfs), 700 hp (167 cfs) and 800 hp (167 cfs); and
- Motors: 100 hp, 200 hp, 250 hp, 350 hp, 400 hp, 600 hp, 700 hp and 800 hp.

Pump out for service

Motor out for service