**Stanislaus & Tuolumne Rivers Groundwater Basin Association**
**Groundwater Sustainability Agency**
1231 11th Street | Modesto, CA 95354
Email: strgba@mid.org

# AGENDA

Wednesday, May 21, 2025, 2:30 p.m.
https://us02web.zoom.us/j/81927625178
By phone: 1-669-900-9128
Webinar ID: 819 2762 5178

**PUBLIC PARTICIPATION**
**The public may participate in this meeting in the three ways described below.**

Instructions for Participating in the Workshop via Zoom Webinar or Phone

**On your desktop/iPad or tablet/laptop:**

1. To join the webinar, click the link published in the agenda for the current meeting about 5 minutes before the webinar begins.
2. Follow the on-screen instructions to install and/or launch the Zoom application.
3. If prompted, enter the webinar ID published on the agenda.
4. All public attendees will enter the meeting muted.
5. If you wish to speak under Business from the Public, or after the Chairman calls for public comment, click on the "Raise Hand" button to request to speak.

**On your phone:**

1. To attend the meeting by phone, call the number published in the agenda for the meeting.
2. Enter the webinar ID published in the agenda, then hit the # symbol.
3. All public attendees will enter the meeting muted.
4. If you wish to speak under Business from the Public, or after the Chairman calls for public comment, press *9 on your phone to "Raise Hand" or simply request to speak.

**In person:** Oakdale Irrigation District, 1205 East F Street, Oakdale

*To view a physical copy of the agenda, please visit the Oakdale Irrigation District office at 1205 East F Street, Oakdale. A complete copy of the agenda packet is also available on www.strgba.org*

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1. Call to Order/Welcome and Introductions
   (Four agencies are needed for a quorum)

2. Business from the Public
   Who: Public
   Expected Outcome: Interested persons are welcome to introduce any topic within the GSA's jurisdiction. Matters presented under this heading may be discussed but no action will be taken by the GSA at this meeting. It is not required, but speakers may provide their name and address. Public Comments will be limited to five minutes per speaker.

3. Topic: Approve 3/26/2025 Meeting Minutes [Action item]
   Who: Eric Thorburn, Committee
   Expected Outcome: Approval

4. Topic: Modesto Subbasin Fall 2024 Water Level Analysis
   Who: Todd Groundwater, Committee
   Expected Outcome: Discussion

5. Next meeting
   June 11, 2025, at 1:30 p.m.

6. Committee Comments/Reports

**Closed Session**

1. CONFERENCE WITH LEGAL COUNSEL – ANTICIPATED LITIGATION
   Pursuant to Government Code §54956.9(d)(2)
   One (1) case

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# MEETING MINUTES

**March 26, 2025 (1:30 p.m. – 3:00 p.m.)**

The meeting was called to order at 1:31 p.m.

1. **Welcome and Introductions**

   The following members of the Stanislaus and Tuolumne Rivers Groundwater Basin Association Groundwater Sustainability Agency (STRGBA GSA) attended either in-person or via Zoom.

   **In-Person Member Agency Attendees:**

| | |
|---|---|
| Oakdale Irrigation District (OID): | Eric Thorburn |
| Modesto Irrigation District (MID): | Paul Peschel |
| Stanislaus County: | Christy McKinnon |
| City of Oakdale: | Brad Clinkenbeard |
| City of Modesto: | Tim Barahona |
| City of Riverbank: | Darin Smallen |
| City of Waterford: | Mike Pitcock |

   **Other Attendees:**

| | |
|---|---|
| Brandon Herreman | Lincoln Denlinger |
| Alexis Stevens | Julia Berry |
| Liz Elliott | Stacy Henderson |
| Luke Crawford | Dominick Amador |
| Melissa Williams | Larry Byrd |
| Alexandra Duarte | John Brichetto |

2. **Business from the Public**
   N/A

3. **Approve 3/12/2025 Meeting Minutes [Action item]**
   Peschel moved, seconded by Smallen to approve the 3/12/2025 meeting minutes.
   - Motion amended to include John Brichetto in the attendees list for 3/12/2025.

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4. **Approve Water Year 2024 Annual Report**
   Pitcock moved, seconded by Barahona to approve the 2024 Annual Report.

5. **Valley Water Collaborative Update**
   Parry Classen provided a presentation on the Annual Report. The presentation and accompanying comments can be viewed by clicking the following link: https://youtu.be/r754G3dDOkM

6. **Next Meeting**
   April 9, 2025, at 1:30 p.m.

7. **Committee Comments/Reports**
   Thorburn provided an update on the STRGBA website. He also noted a Well Mitigation Plan and Management Actions Workshop, tentatively scheduled for April or May.

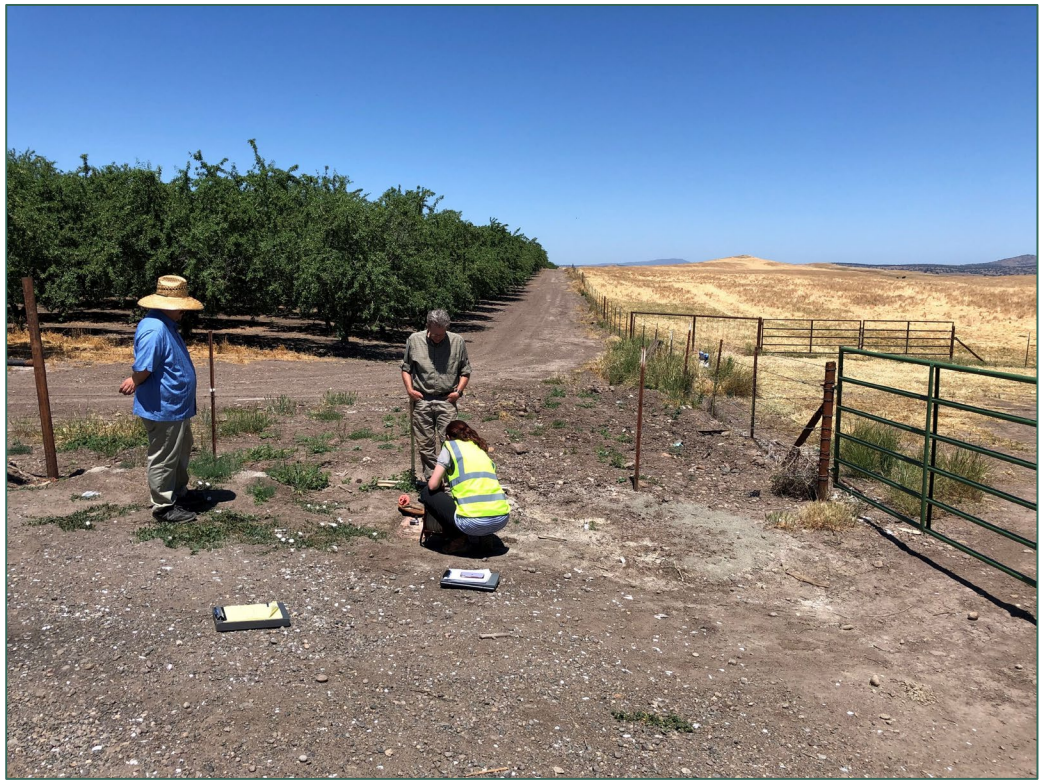
# Modesto Subbasin GSP

## Fall 2024 Water Level Analysis

STRGBA GSA Meeting
May 21, 2025

# Agenda

- Fall 2024 GSP Monitoring Event
- Water Level Analysis – Draft Results
  - Sustainable Management Criteria
  - Hydrographs
- Summary and perspective



*Monitoring Well MW-8*

TODD GROUNDWATER

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# Definition of Undesirable Results

Chronic Lowering of Groundwater Levels 

An undesirable result will occur when at least 33% of representative monitoring wells exceed the MT for a principal aquifer in three (3) consecutive Fall monitoring events.

Interconnected Surface Water 

An undesirable result will occur on one of the rivers when 33% to 50% of the representative monitoring wells for that river exceed the MT in three (3) consecutive Fall monitoring events.
(33% on Stanislaus and Tuolumne rivers, 50% on San Joaquin River)

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# Fall 2024 GSP Monitoring Event

- Sixth GSP Monitoring Event
- Groundwater elevations measured in early November 2024 in 59 representative monitoring wells (RMWs)
- 2 RMWs not measured due to casing obstructions (Wood and Quesenberry)

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# Fall 2024 Minimum Thresholds (MTs)

## Chronic Lowering of Water Levels

| | Fall 2024 |
|---|---|
| **Western Upper Principal Aquifer** | |
| Above MT | 17 |
| Below MT | 0 |
| Not Measured | 0 |
| % Below (includes measured wells) | **0%** |
| **Western Lower Principal Aquifer** | |
| Above MT | 5 |
| Below MT | 0 |
| Not Measured | 0 |
| % Below (includes measured wells) | **0%** |
| **Eastern Principal Aquifer** | |
| Above MT | 27 |
| Below MT | 10 |
| Not Measured | 2 |
| % Below (includes measured wells) | **27%** |

## Interconnected Surface Water

| | Fall 2024 |
|---|---|
| **San Joaquin River** | |
| Above MT | 2 |
| Below MT | 0 |
| Not Measured | 0 |
| % Below (includes measured wells) | **0%** |
| **Stanislaus River** | |
| Above MT | 6 |
| Below MT | 2 |
| Not Measured | 0 |
| % Below (includes measured wells) | **25%** |
| **Tuolumne River** | |
| Above MT | 8 |
| Below MT | 1 |
| Not Measured | 1 |
| % Below (includes measured wells) | **11%** |

# Summary of GSP Monitoring Events

| Undesirable Results Definition | Principal Aquifer/River | Percent of Measured RMWs Below MT | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | WY 2022 | WY 2023 | | WY 2024 | | WY 2025 | |
| | | Spring 2022 | Fall 2022 | Spring 2023 | Fall 2023 | Spring 2024 | Fall 2024 | Spring 2025 |
| **Chronic Lowering of Groundwater Levels** | | | | | | | | |
| At least **33%** of RMWs exceed the MT for that Principal Aquifer in **three (3)** consecutive **Fall** monitoring events. | **Western Upper** | 0% | **6%** | 0% | **0%** | 0% | **0%** | |
| | **Western Lower** | 20% | **20%** | 0% | **20%** | 0% | **0%** | |
| | **Eastern** | 28% | **57%** | 32% | **30%** | 19% | **27%** | |
| **Interconnected Surface Waters** | | | | | | | | |
| At least **33%** (Stanislaus and Tuolumne) or **50%** (San Joaquin) of RMWs for a river exceed the MT in **three (3)** consecutive **Fall** monitoring events | **San Joaquin River** | 0% | **50%** | 0% | **0%** | 0% | **0%** | |
| | **Stanislaus River** | 25% | **75%** | 25% | **25%** | 13% | **25%** | |
| | **Tuolumne River** | 11% | **56%** | 22% | **11%** | 0% | **11%** | |

**Fall GSP Monitoring Event - below threshold**

**Fall GSP Monitoring Event - above threshold**

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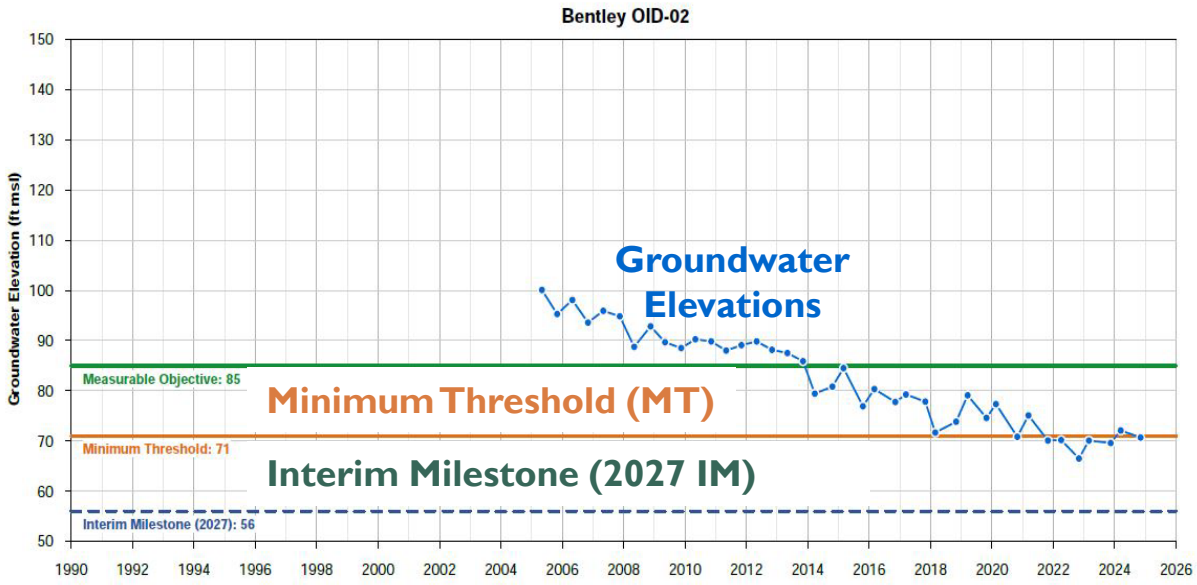
# Interim Milestones (IMs)

- Chronic Lowering of Water Levels
  - 14 wells with IMs
  - No wells exceeded their IM during Fall 2024
  - 1 well with IM (Quesenberry) had no measurement
- Interconnected Surface Water
  - 5 wells with IMs
  - No wells exceeded their IM during Fall 2024

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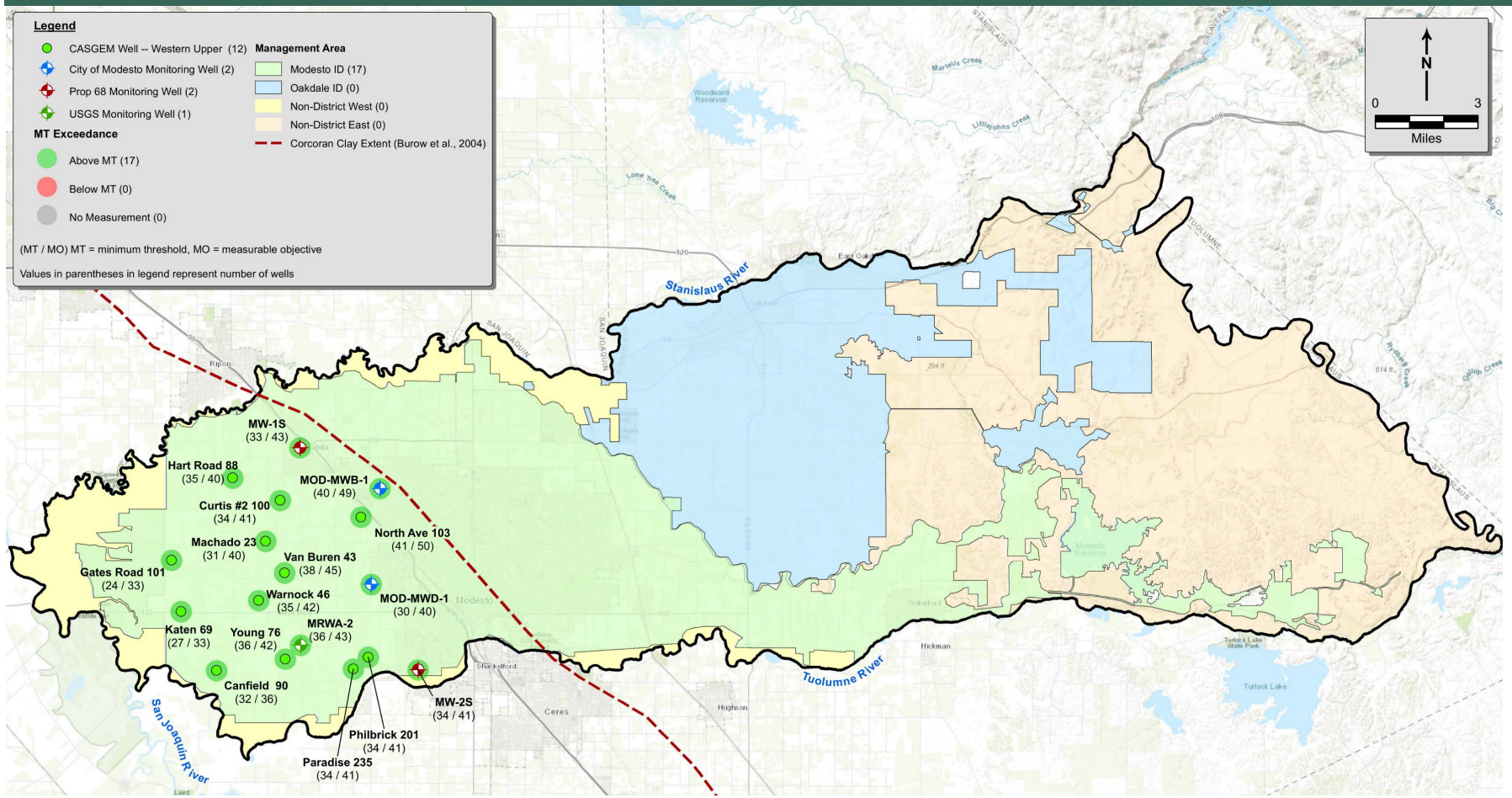
# Fall 2024
# Western Upper Principal Aquifer




- No RMWs below MT
- Many wells over MOs
- Fall 2023:
  No RMWs below MT

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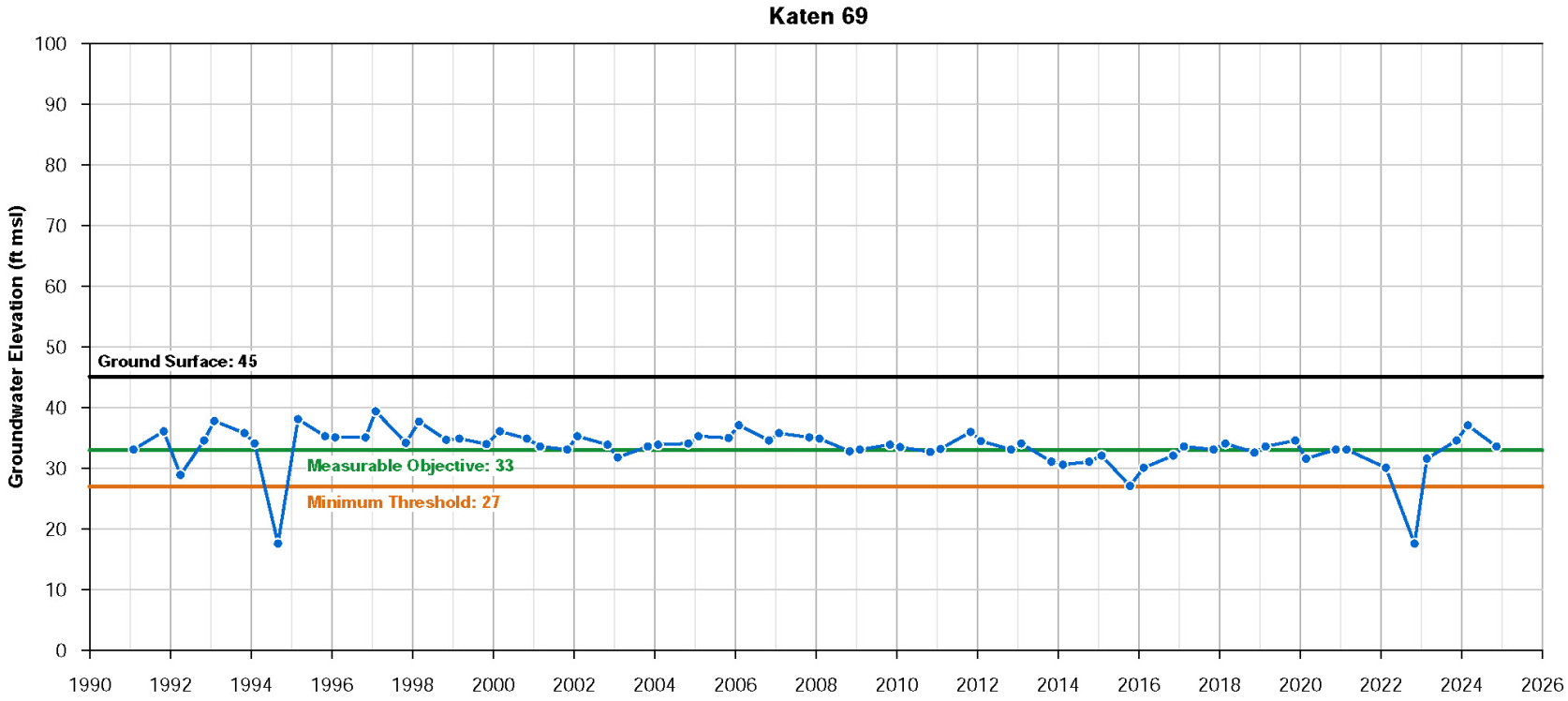
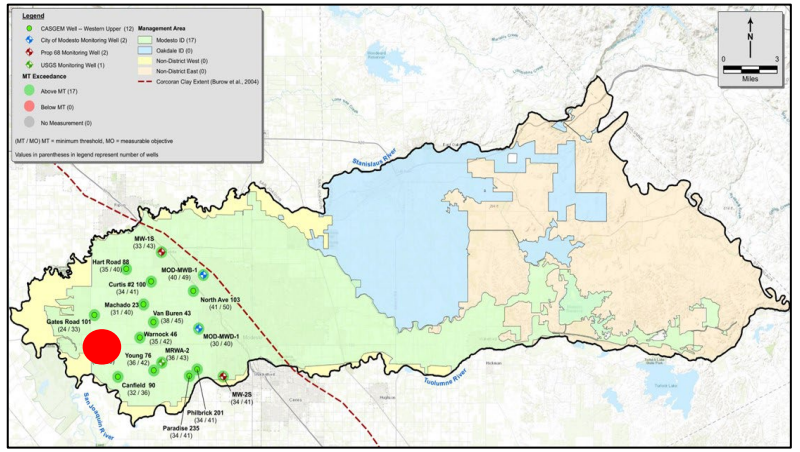
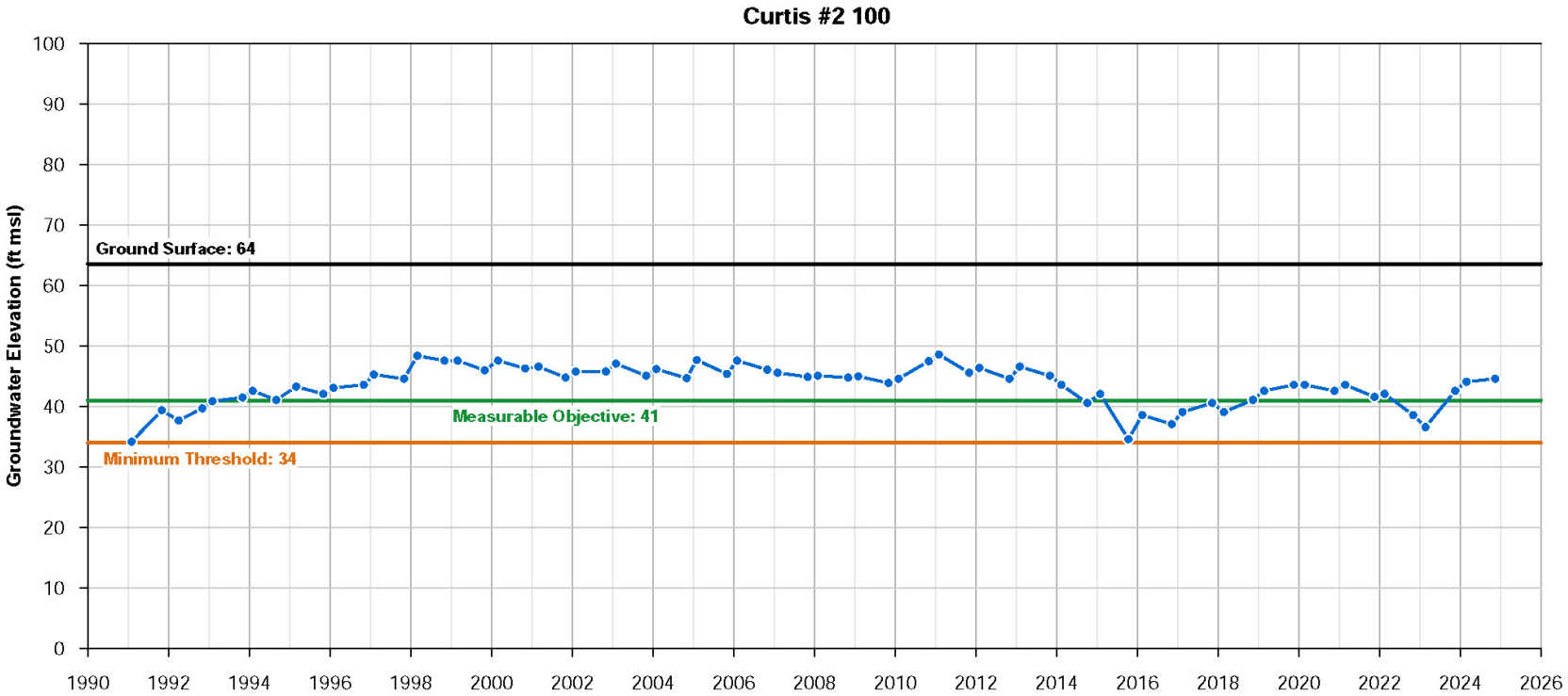
# Hydrographs
# Western Upper Principal Aquifer



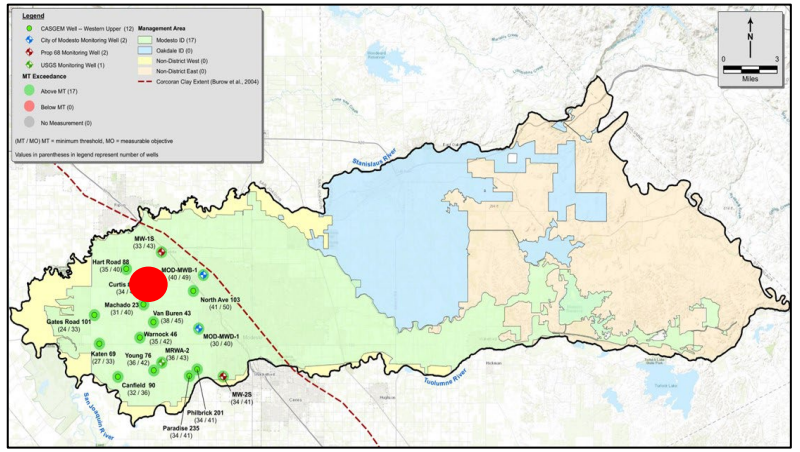

- Water level has recovered since Fall 2022 and is relatively stable over the last two years.



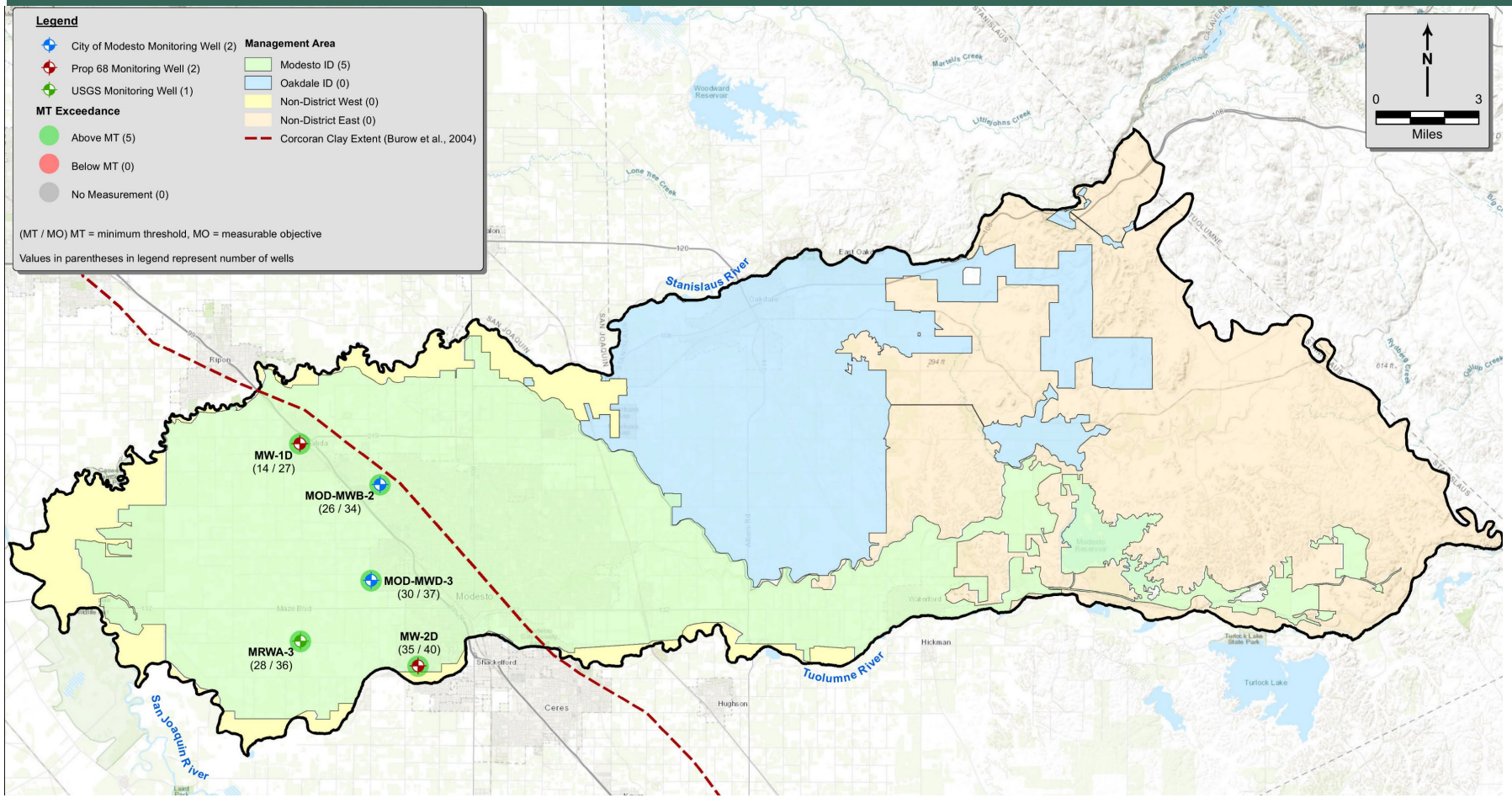
# Hydrographs
# Western Upper Principal Aquifer




- Water levels are above the MO
- Water level recovered and is stable during 2024



# Fall 2024
# Western Lower Principal Aquifer




- No RMWs below MT
- Fall 2023: one RMW was below MT (MW-2D)

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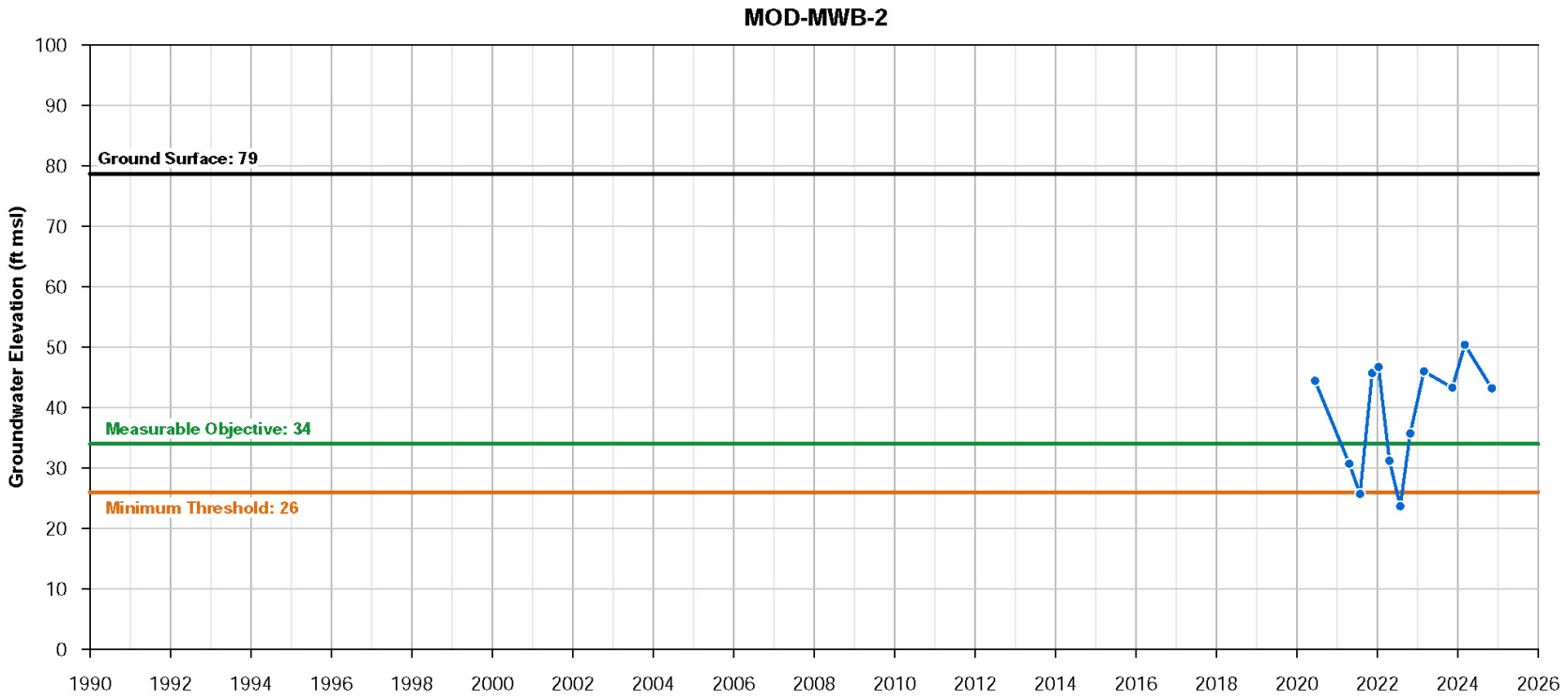
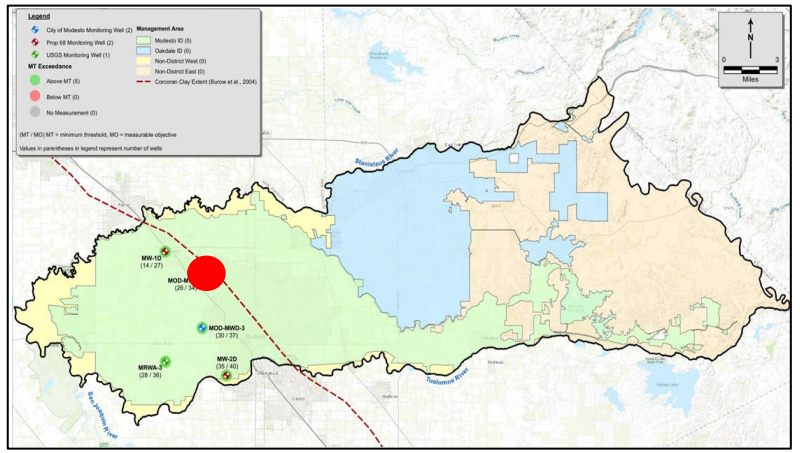
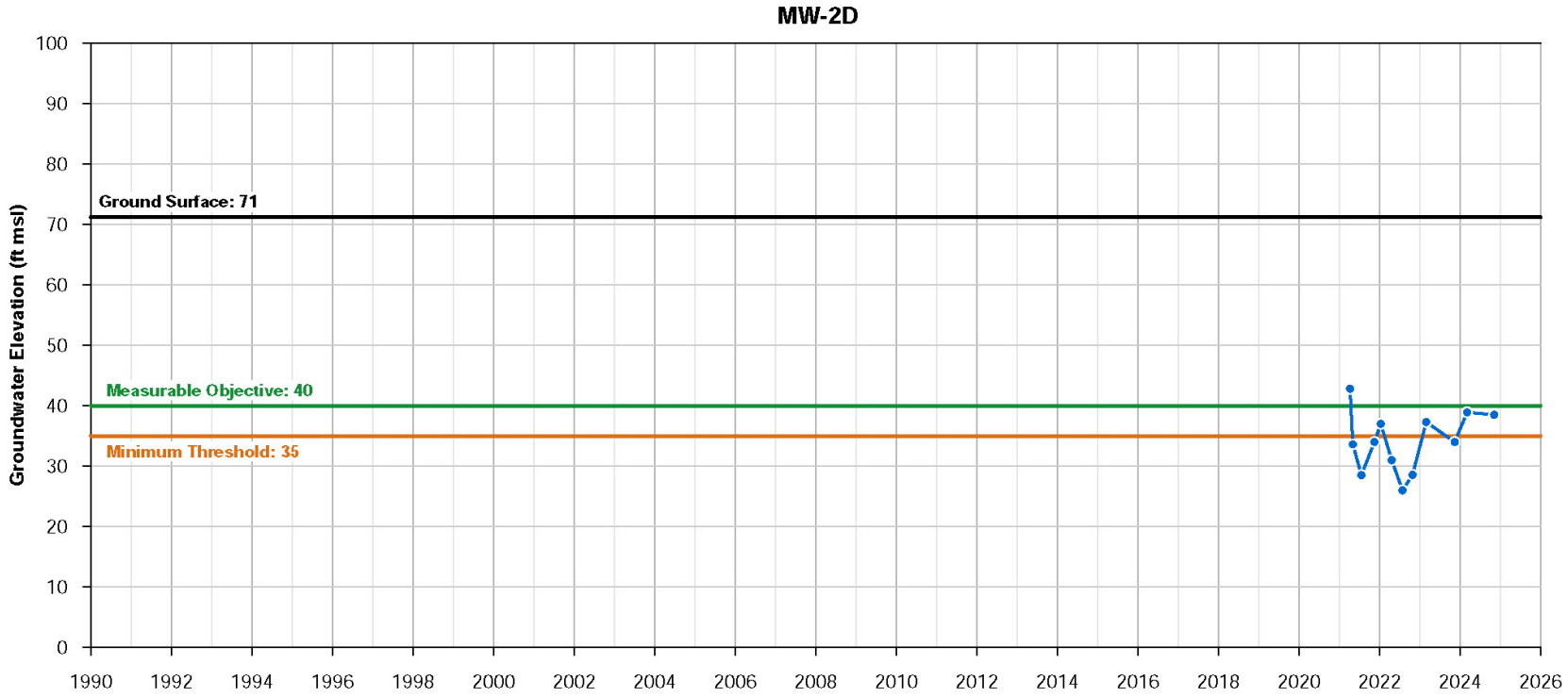
# Hydrographs
# Western Lower Principal Aquifer



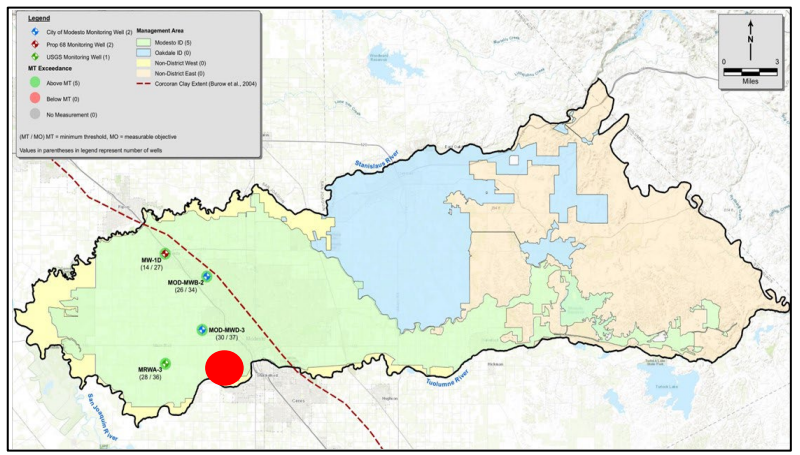

- Water levels are above the MO
- Seasonal fluctuations less pronounced during last two years



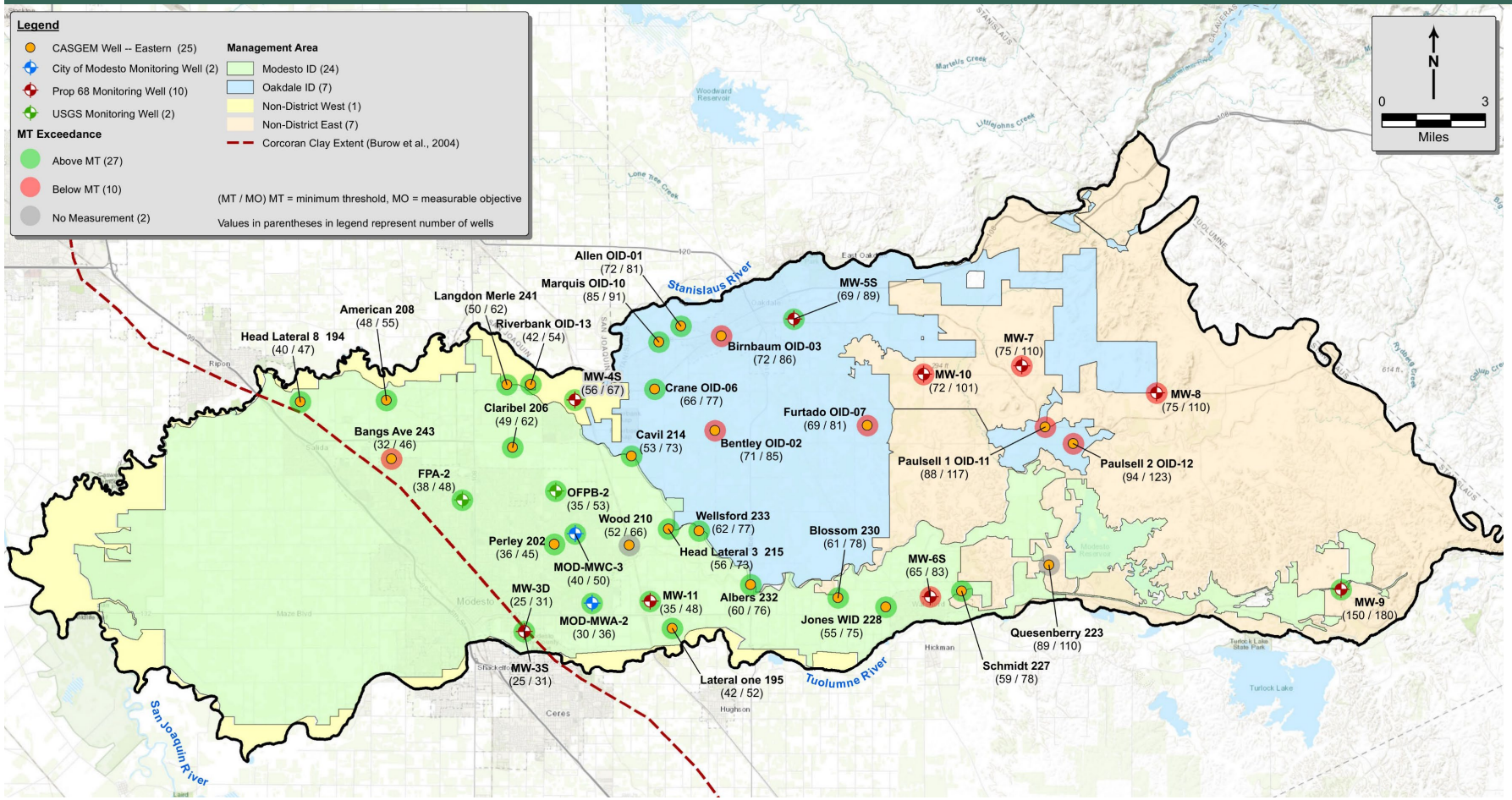
# Hydrographs
# Western Lower Principal Aquifer




- Water level is above the MT during the first Fall event since well was constructed
- Seasonal fluctuations less pronounced during last two years

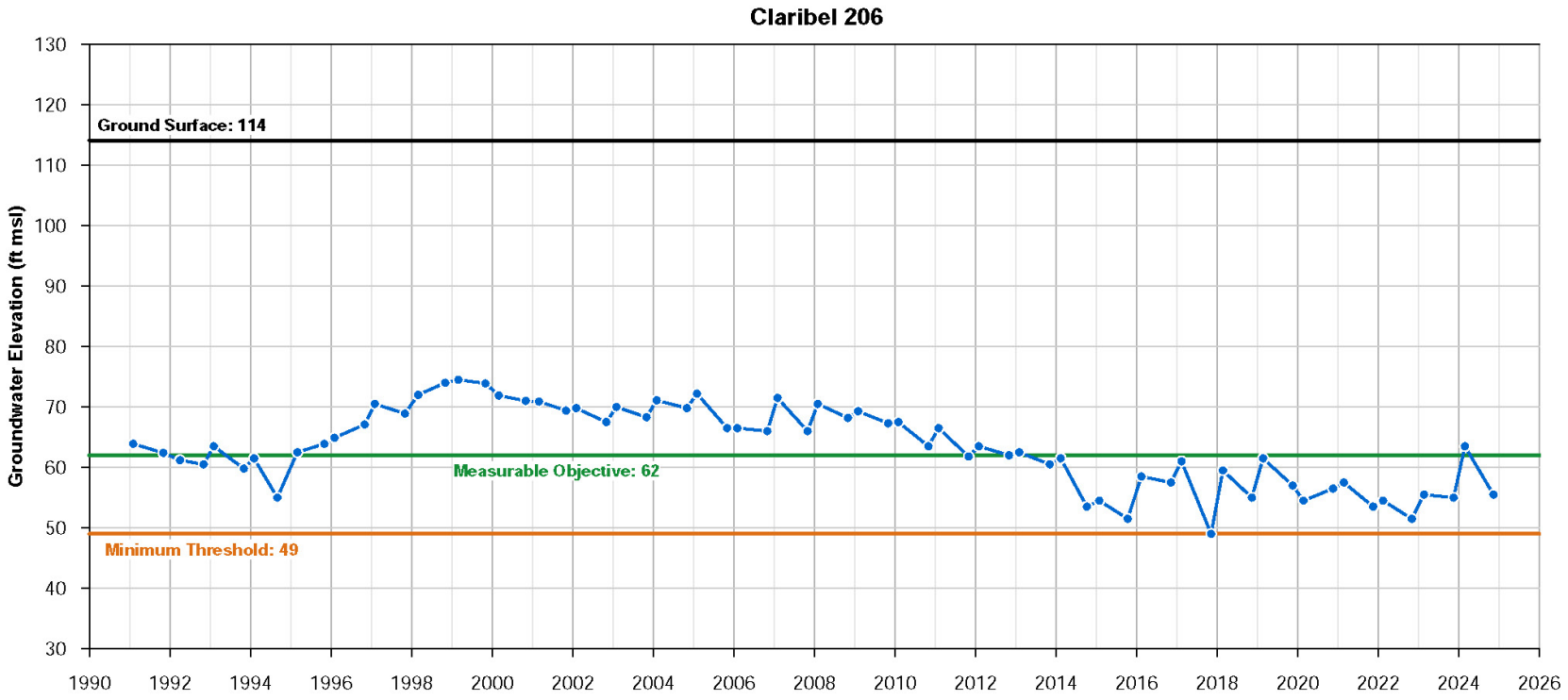


# Fall 2024
# Eastern Principal Aquifer

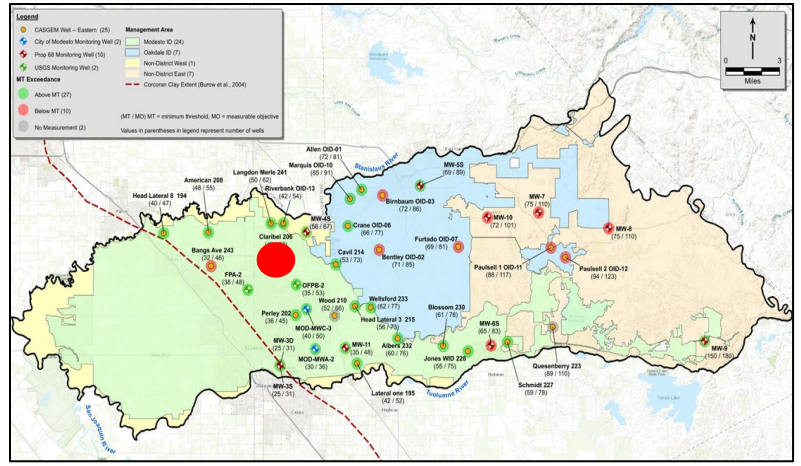



- 27% of RMWs below MT
  - 27 wells > MT
  - 10 wells < MT
  - 2 wells not measured
- 14 RMWs have IMs (13 above and 1 NM)
- Fall 2023: 11 wells (30%) were below MT

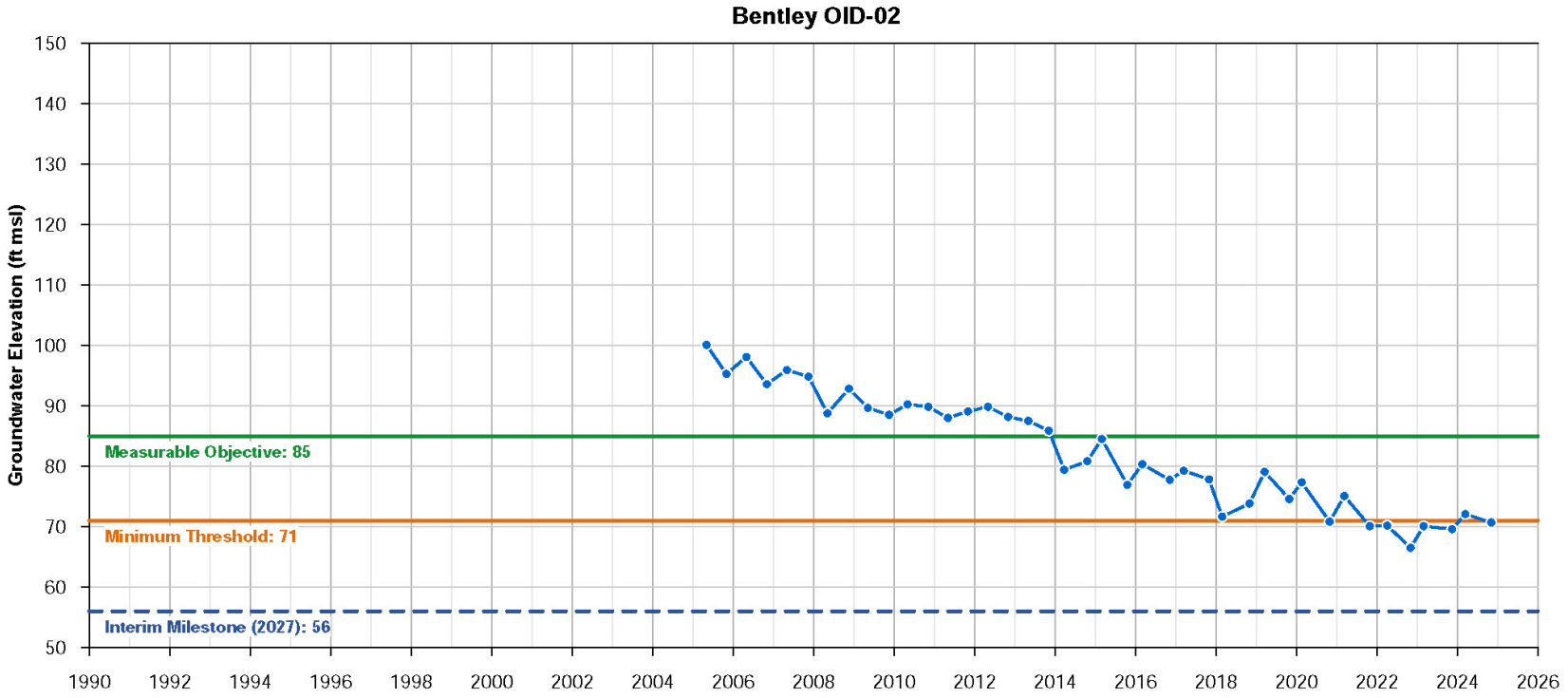
# Hydrographs
# Eastern Principal Aquifer



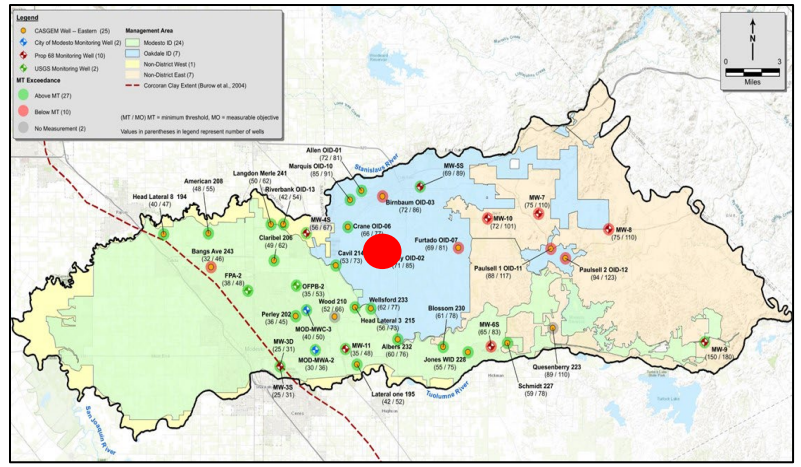

- Water levels are above the MT
- Seasonal fluctuations, but relatively stable since Fall 2014



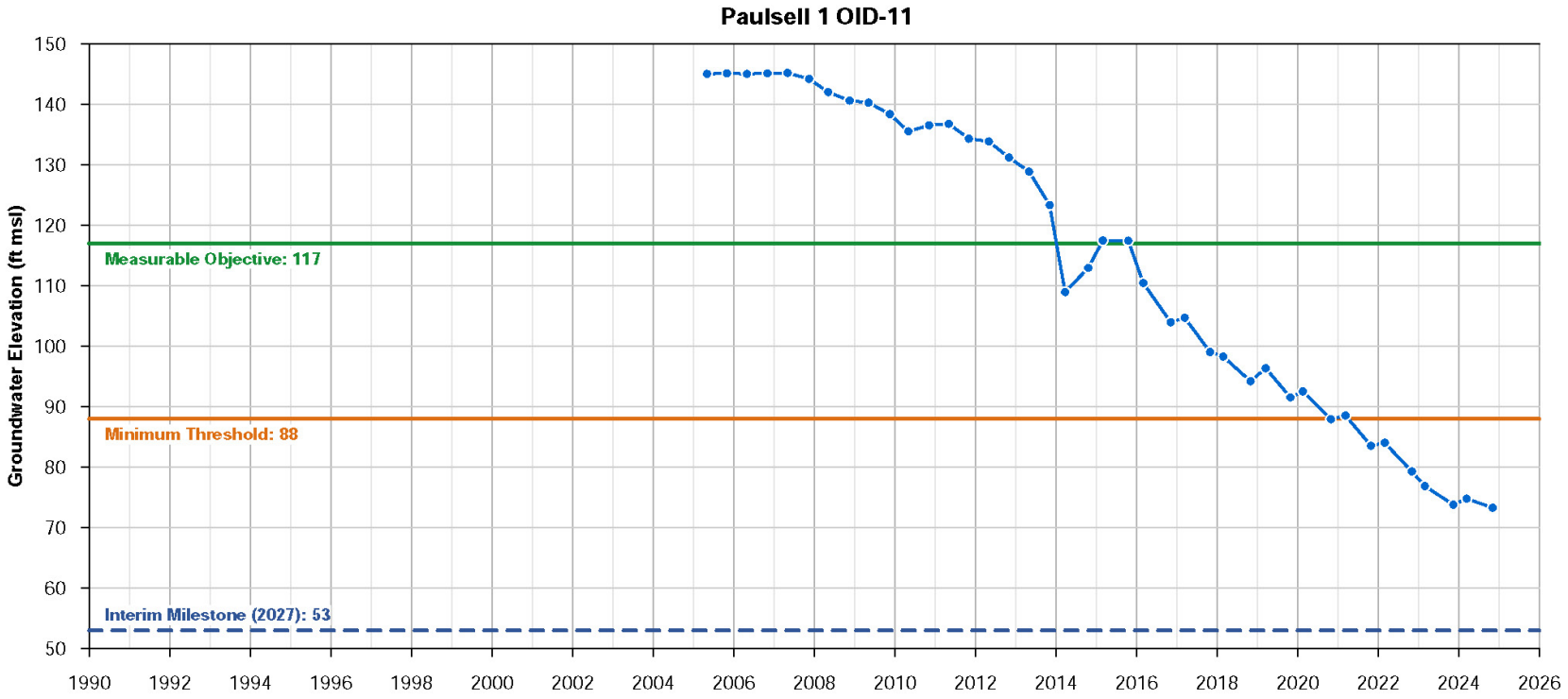
# Hydrographs
# Eastern Principal Aquifer



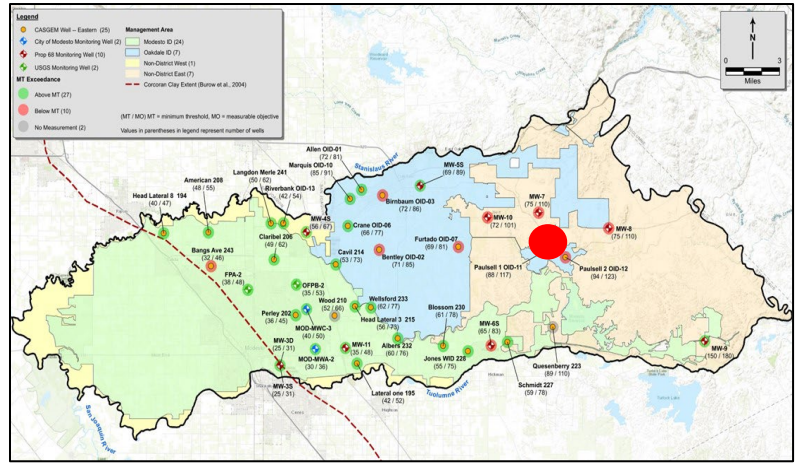

- Water level in Fall 2024 was slightly below the MT
- Overall declining trend, but relatively stable over the last two years.



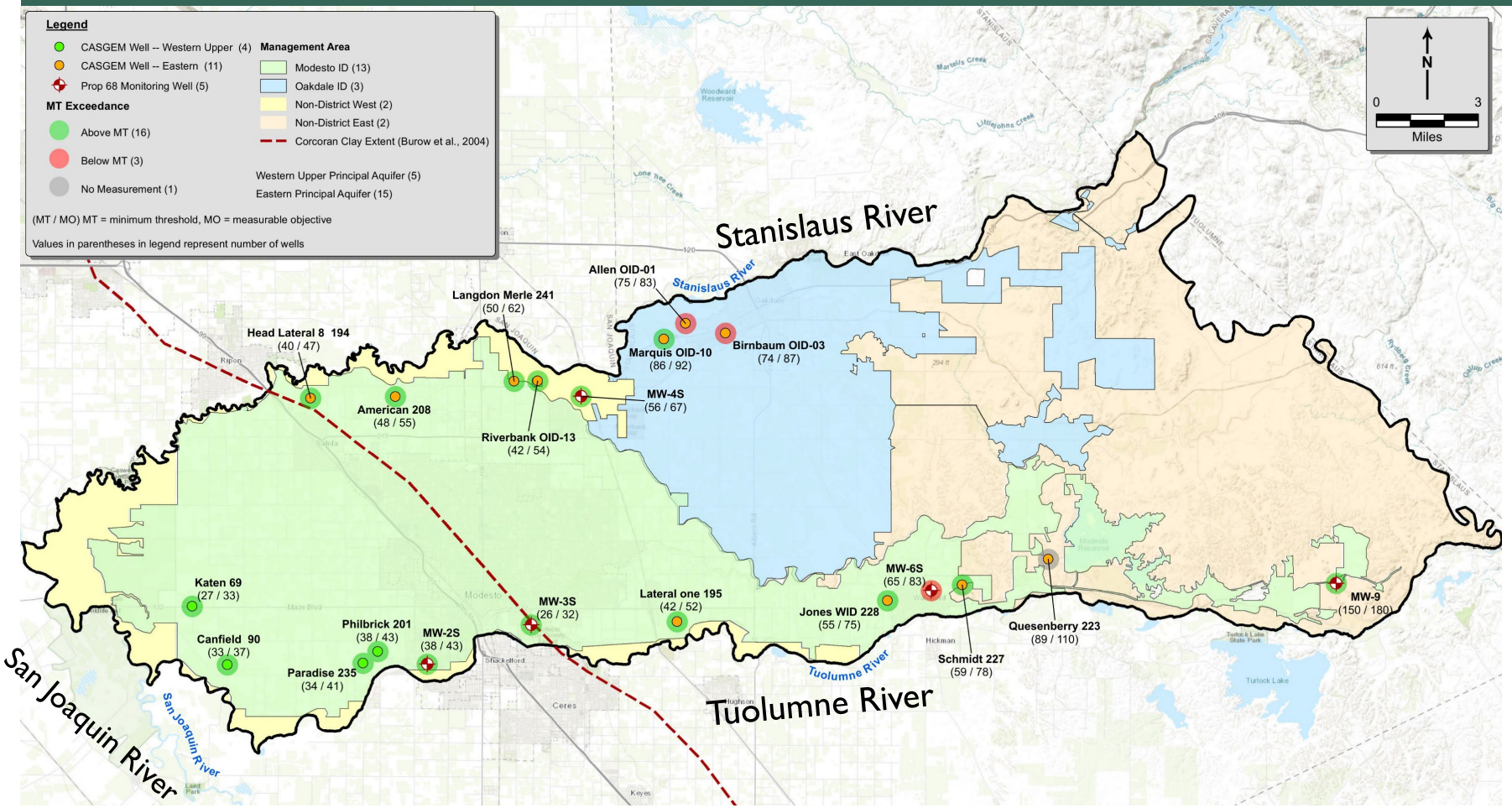
# Hydrographs
# Eastern Principal Aquifer




- Water level is below the MT in Fall 2024
- Eastern wells have highest rates of water level declines



# Fall 2024 Interconnected Surface Water




San Joaquin River

- 0 of 2 below MT (0% below MT)

Stanislaus River

- 2 of 8 below MT (25% below MT)

Tuolumne River

- 1 of 8 below MT, 1 NM (11% below MT)
- Same as Fall 2023

TODD GROUNDWATER

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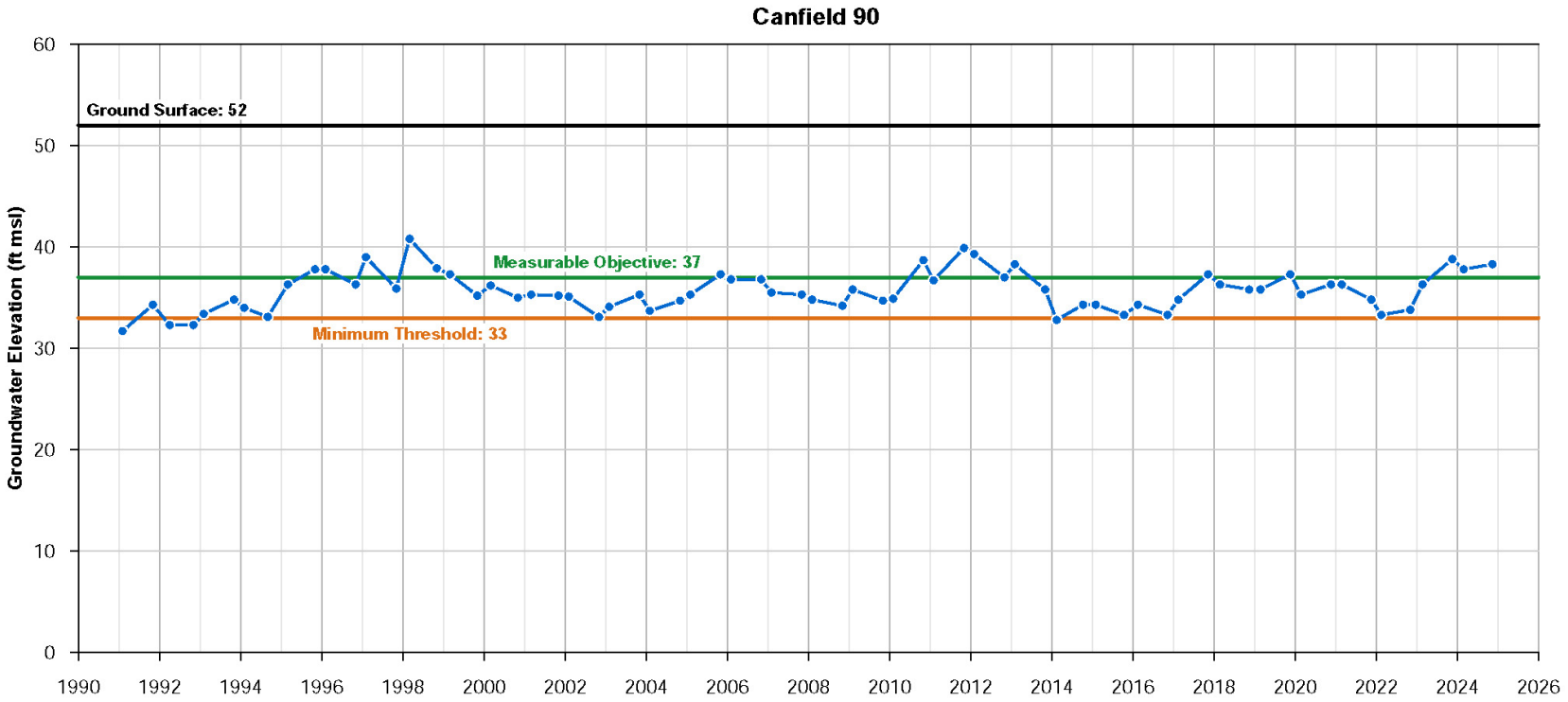
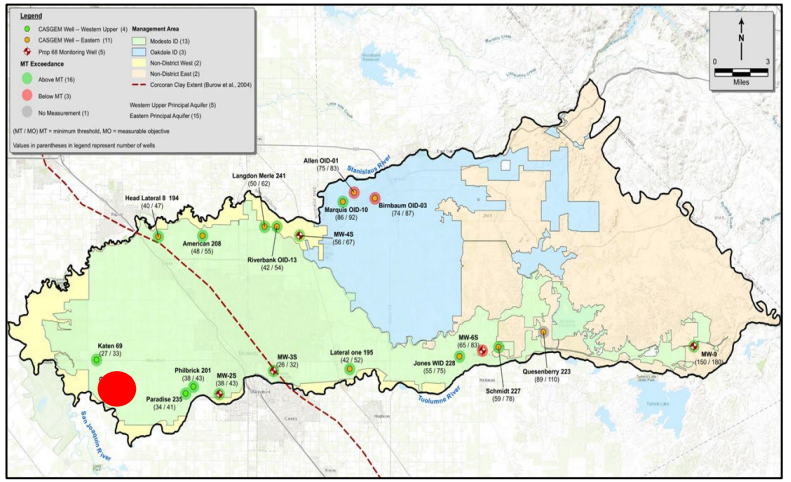
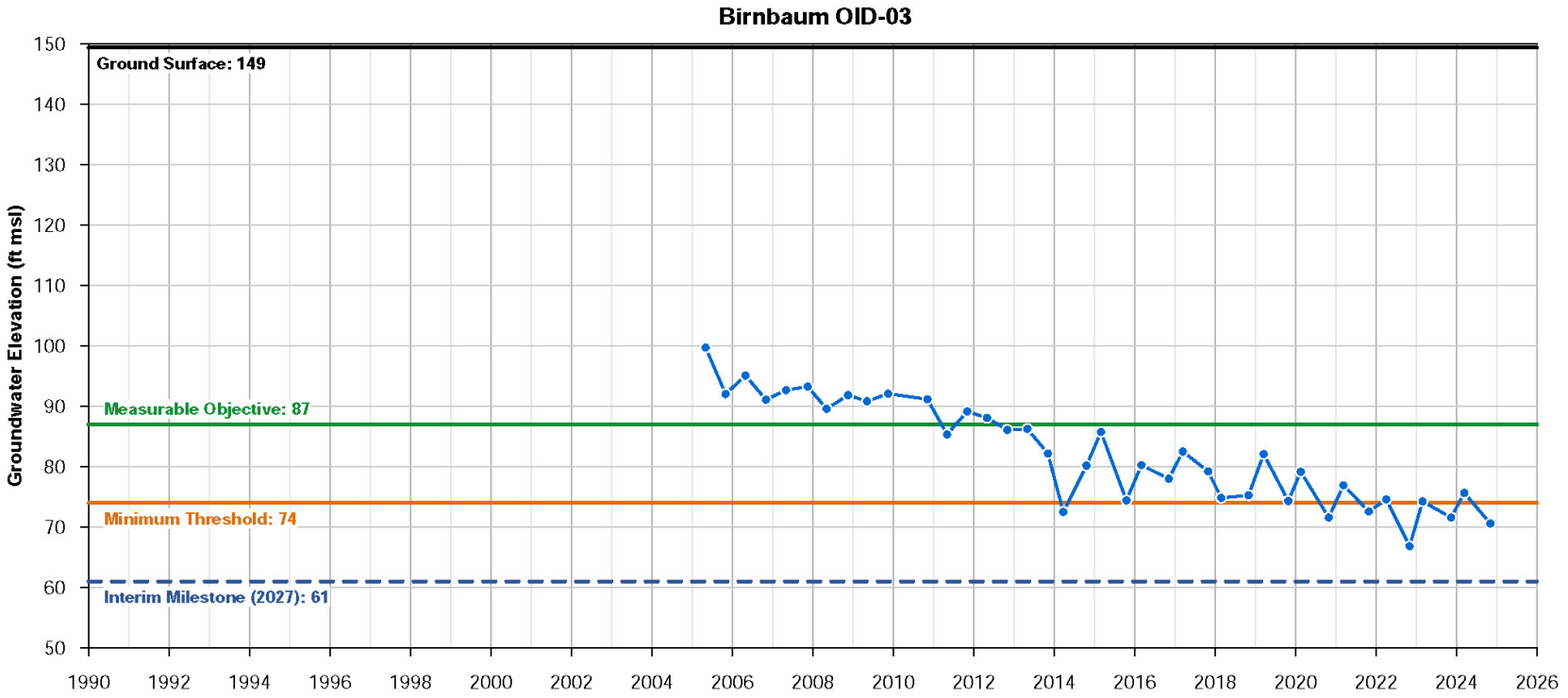
# Hydrographs
# Interconnected Surface Water



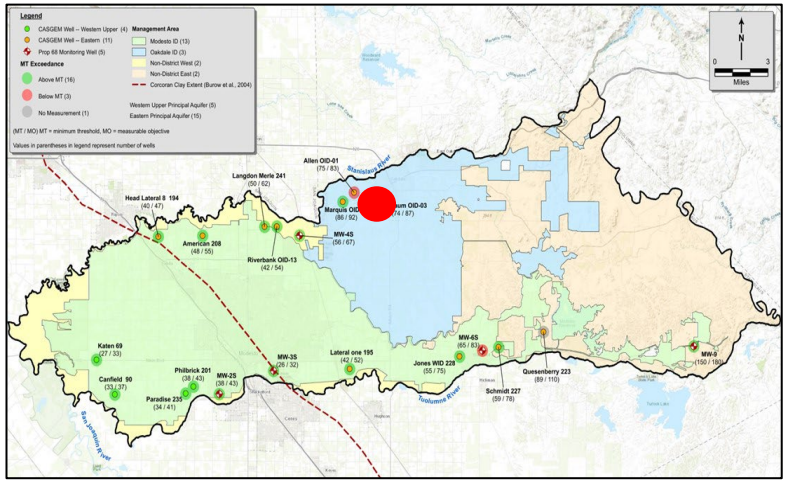

- Water level increased slightly from Spring 2024 to Fall 2024
- Water level is above the MO



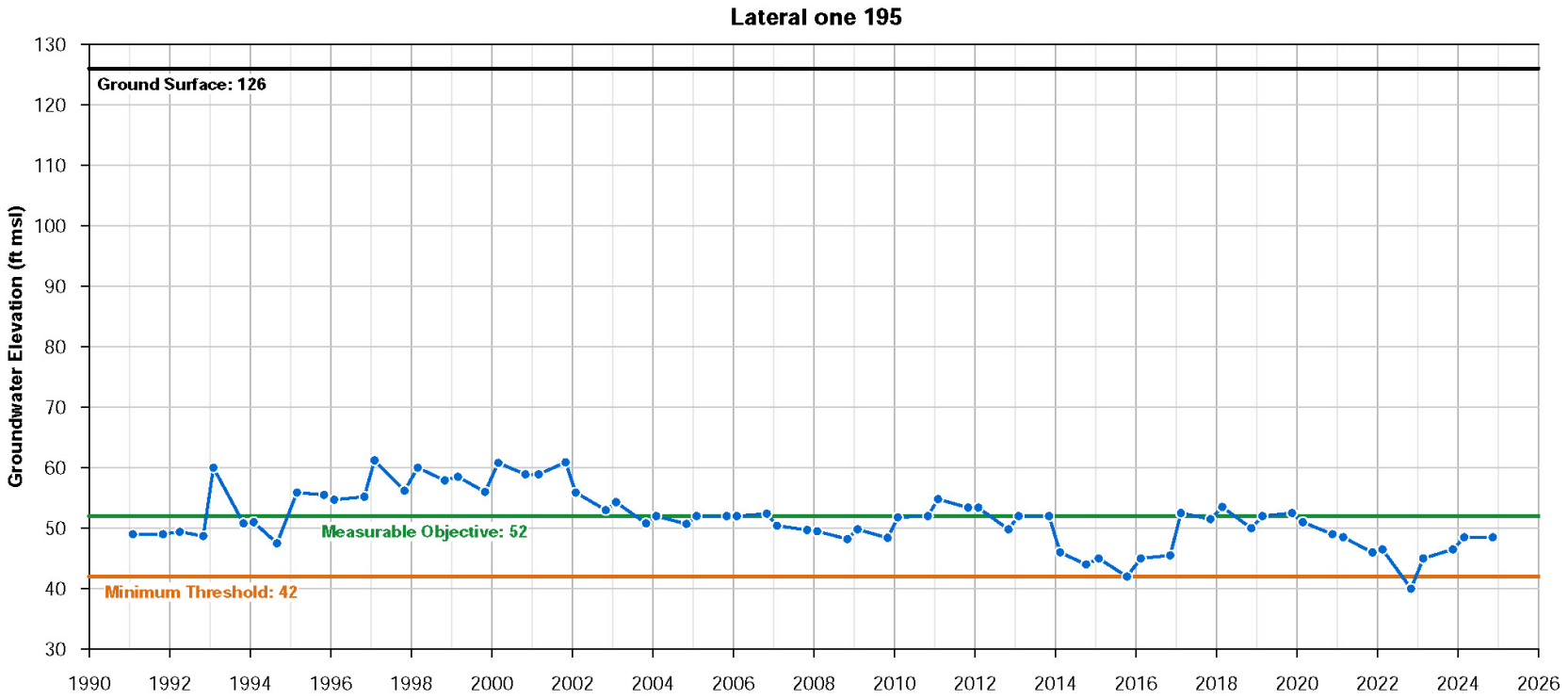
# Hydrographs
# Interconnected Surface Water



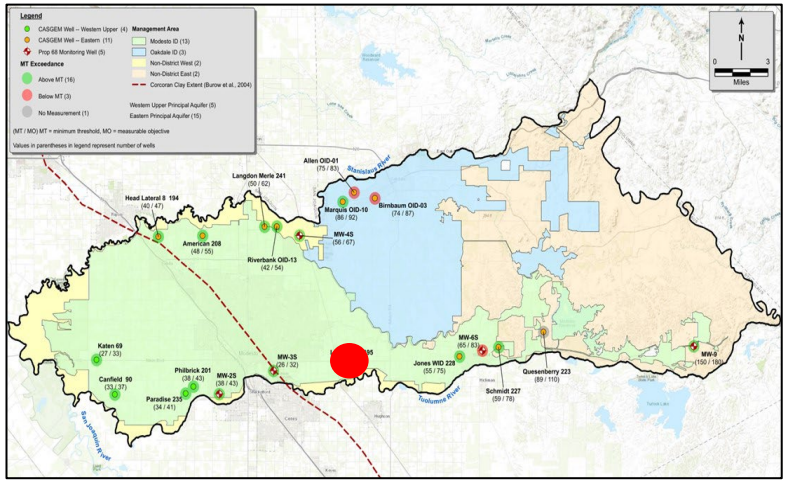

- Water level is below the MT
- Seasonal fluctuations over the last two years are similar



# Hydrographs
# Interconnected Surface Water




- Water level is above the MT
- Increasing trend since Fall 2022



# Summary of Fall 2024 Monitoring Event

- Fall 2024 monitoring event showed relatively stable groundwater levels throughout most of the Subbasin after two consecutive wet years.
  (WY 2024 = Above Normal, WY 2023 = Wet)
- Groundwater levels in the easternmost Subbasin continue to decline.
- MT exceedances were below the threshold for undesirable results
- No wells are below IMs

TODD GROUNDWATER

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# A Broader Perspective

- Long-term groundwater level declines have occurred in the Non-District East Management Area and have expanded into the Oakdale Irrigation District Management Area.
- 2027 Interim Milestones below the Minimum Threshold were developed for monitoring network wells within these two management areas
- Groundwater levels in the eastern Subbasin, particularly in the Non-District East Management Area, continue to decline.
- The STRGBA GSA committed to developing management actions by January 31, 2026, and implementing these management actions by January 31, 2027, to arrest groundwater level declines.

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STANISLAUS AND TUOLUMNE RIVERS GROUNDWATER BASIN ASSOCIATION
GROUNDWATER SUSTAINABILITY AGENCY

# QUESTIONS?