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

STRGBA GSA AGENDA

August 9, 2023 (1:30 p.m. – 3:00 p.m.)
Webinar Digital Platform or Phone Meeting
https://us02web.zoom.us/j/82844864384
By phone: 1-669-900-9128
Webinar ID: 828 4486 4384

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

Instructions for Participating in STRGBA GSA & Technical Advisory Meeting 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 webinar begins.
2. Follow the on-screen instructions to install and/or launch the Zoom application.
3. If prompted, enter the Webinar ID published in 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 join the meeting by phone, call the number published in the Agenda for the meeting.
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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.

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

2. Business from the Public
   Who: Public
   Expected Outcome: Interested persons are welcome to introduce any topic within the Agency's jurisdiction. Matters presented under this heading may be discussed but no action will be taken by the Agency at this meeting.

3. Topic: Approve 6/14/2023 Meeting Minutes [Action Item]
   Who: Eric Thorburn, Committee
   Expected Outcome: Approval

4. Topic: 2023 Operating Budget Update [Action Item]
   Who: Eric Thorburn, Committee
   Expected Outcome: Approval

5. Topic: Update on RFP/RFQ for Consultant Services for the GSP and GW Annual Reports
   Who: Miguel Alvarez, Committee
   Expected Outcome: Discussion

6. Topic: Draft Monitoring Well Installation Plan
   Who: Todd Groundwater, Committee
   Expected Outcome: Discussion

7. Topic: Valley Water Collaborative and Nitrate Control Program Update
   Who: Valley Water Collaborative, Committee
   Expected Outcome: Discussion

8. Next Meeting
   September 13, 2023, at 1:30 p.m. via Zoom
   In-person offered at Oakdale Irrigation District

9. Items too late for the agenda

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MEETING MINUTES

June 14, 2023 (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 Attendees:

Modesto Irrigation District (MID):	Jesse Franco
Oakdale Irrigation District (OID):	Eric Thorburn
Stanislaus County:	Christy McKinnon
City of Modesto:	Miguel Alvarez
City of Waterford:	Michael Pitcock

   Other Attendees:

Liz Elliott, Todd Groundwater	Ali Taghavi, Woodard & Curran
John Schneider	John Herrick
John Mauterer	Hilary Reinhard
Emily Sheldon	Iris Priestaf
Alexis Stevens	Stacy Henderson

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

3. **Approve 3/29/2023 Meeting Minutes [Action item]**
   McKinnon moved, 2nd by Pitcock to approve the 3/29/2023 meeting minutes.

4. **RFP/RFQ for Consultant Services for the GSP and Annual Reports**
   Alvarez and Thorburn discussed the review process for RFP/RFQ proposals, with a submission deadline of July 11, 2023. The TAC Committee will evaluate the final proposals before presenting them to the member agencies during an upcoming STRGBA GSA meeting.

5. **Budget Update**
   The Committee conducted a review of the 2023 Operating Budget to determine if any modifications were necessary.

6. **Next Meeting**
   July 12, 2023, at 1:30 via Zoom and in-person at Oakdale Irrigation District

7. **Items too late for the agenda**
   Franco announced MID is considering a Long-Term Groundwater Replenishment Program and is hosting a public workshop on June 26, 20203 at 6 p.m. at MID, 1231 11th Street, to discuss this program.

Stanislaus and Tuolumne Rivers Groundwater Basin Association Groundwater Sustainability Agency

2023 OPERATING BUDGET

OPERATING EXPENSES	ESTIMATED	ACTUAL	DIFFERENCE
Administration	10,000.00	0.00	5,000.00
Annual Report	75,000.00	0.00	150,000.00
Grant Proposal Preparation	25,000.00	0.00	25,000.00
Insurance	1,500.00	0.00	1,500.00
Legal and auditing	20,000.00	0.00	20,000.00
Model Update	50,000.00	0.00	0.00
Monitoring Wells	4,500.00	0.00	0.00
Public Outreach	5,000.00	0.00	10,000.00
Website Maintenance	5,000.00	0.00	5,000.00
Data Management System	10,000.00	0.00	0.00
Total Operating Expenses	206,000.00	0.00	216,500.00

Draft Monitoring Well Installation Plan
Modesto Subbasin

STRGBA GSA Meeting
August 9, 2023

TODD GROUNDWATER

Overview

- Modesto Subbasin GSP identified data gaps in the monitoring networks:
  - Chronic Lowering of Groundwater Levels: Western Lower Principal Aquifer and Eastern Principal Aquifer
  - Interconnected Surface Water: all three river boundaries
- Draft monitoring well installation plan includes 33 monitoring wells at 28 locations
- Monitoring wells are divided into three tiers, based on priority
- Locations are conceptual, specific sites will need to be chosen

monitoring well MW-9

TODD GROUNDWATER

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Monitoring Well Tiers

- Tiers are set up to prioritize monitoring well construction because 33 monitoring wells is a lot to construct at the same time.
- Tier 1 (highest priority):
  - To fill areas within the Western Lower Principal Aquifer and the Eastern Principal Aquifer that lack monitoring wells
  - Wells proposed in the Western Lower Principal Aquifer have a paired well in the Western Upper Principal Aquifer
- Tier 2:
  - To fill gaps in the Interconnected Surface Water Monitoring Network
- Tier 3 (lowest priority):
  - To fill gaps between existing wells in the Western Principal Aquifers and Eastern Principal Aquifer

TODD GROUNDWATER

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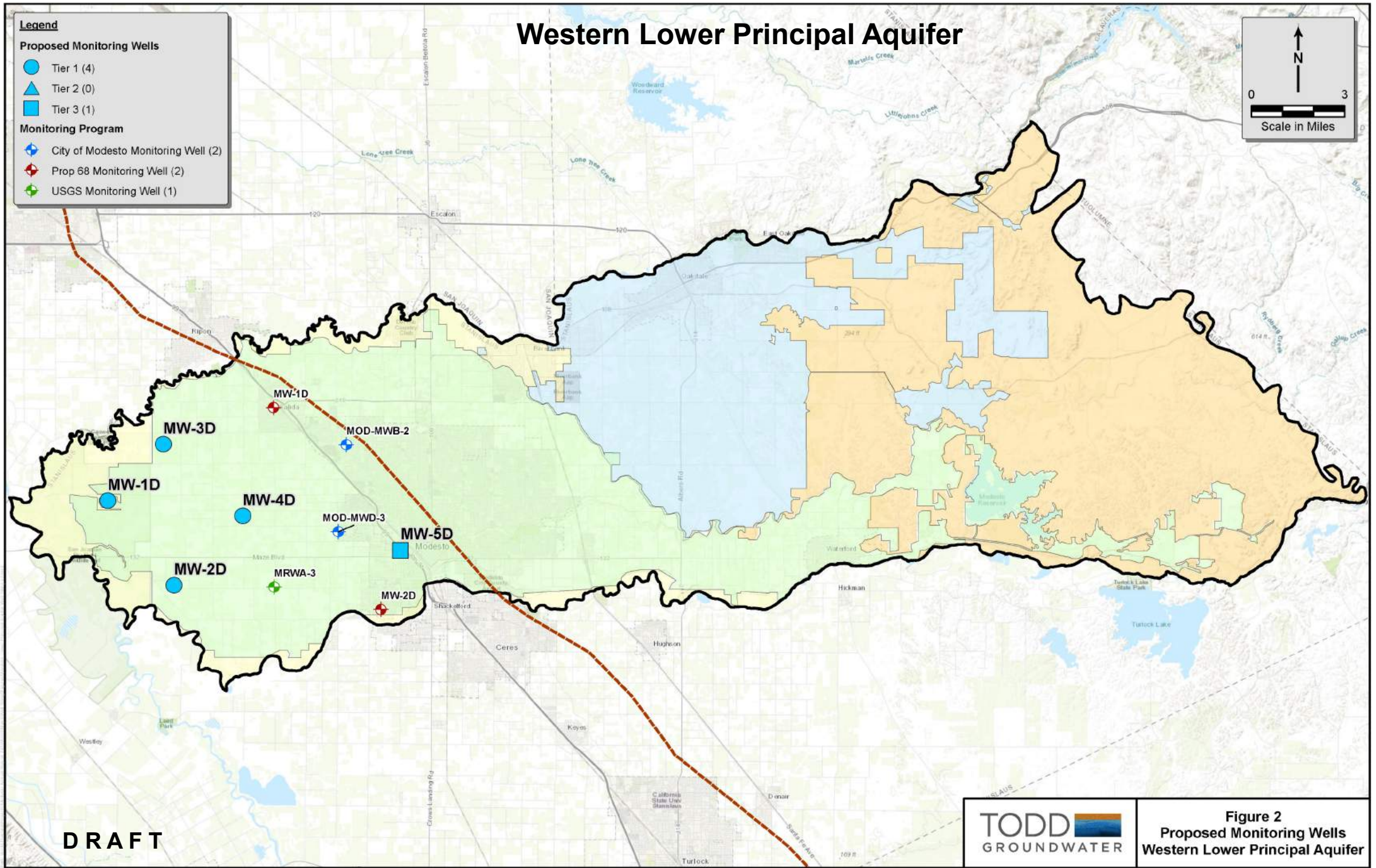
Western Lower Principal Aquifer
Legend
Proposed Monitoring Wells
Tier 1 (4)
Tier 2 (0)
Tier 3 (1)
Monitoring Program
City of Modesto Monitoring Well (2)
Prop 68 Monitoring Well (2)
USGS Monitoring Well (1)
N
0
3
Scale in Miles
MW-1D
MW-3D
MOD-MWB-2
MW-1D
MW-4D
MOD-MWD-3
MW-5D
MW-2D
MRWA-3
MW-2D
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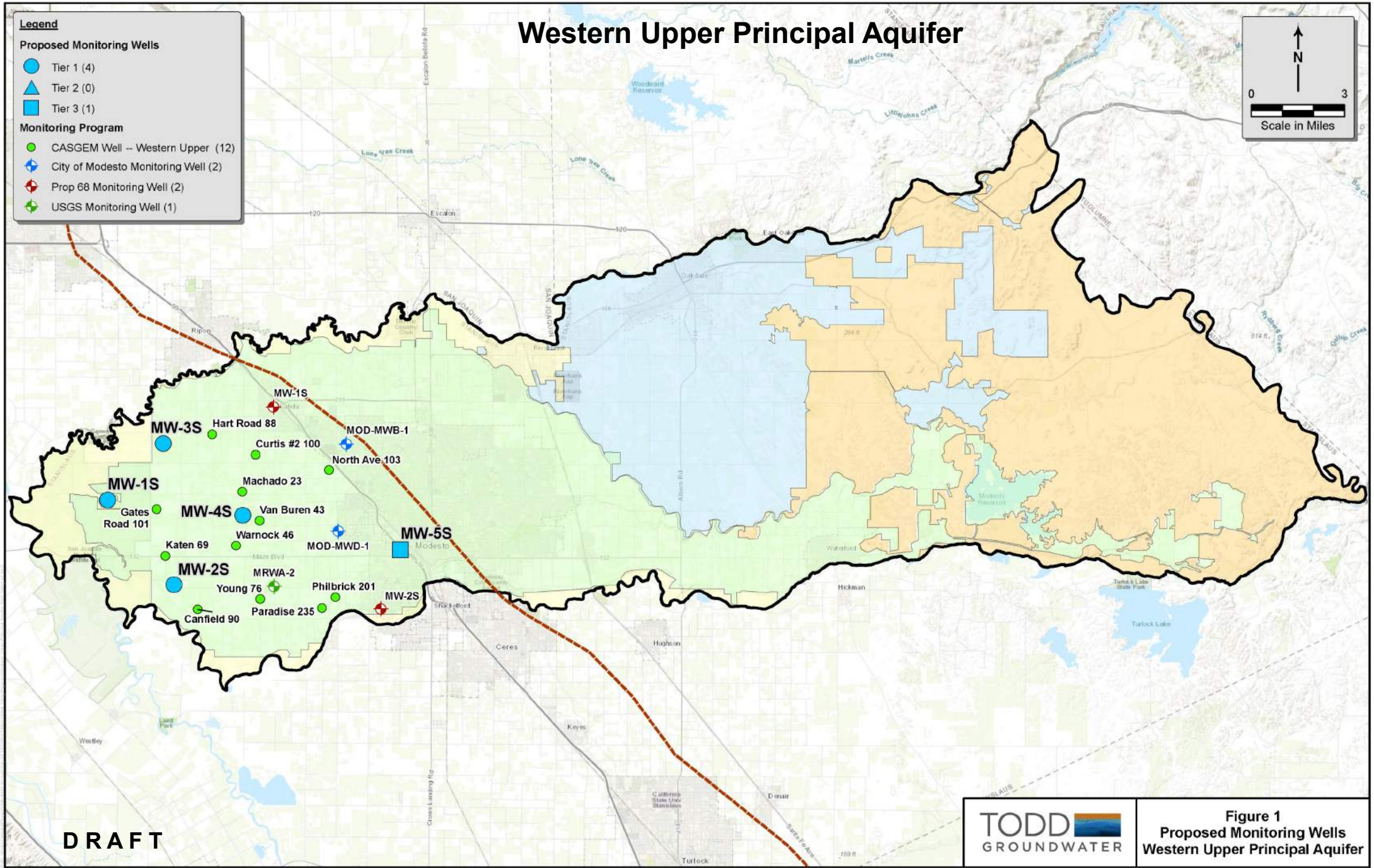
TODD GROUNDWATER
Figure 2
Proposed Monitoring Wells
Western Lower Principal Aquifer


Western Upper Principal Aquifer
Legend
Proposed Monitoring Wells
Tier 1 (4)
Tier 2 (0)
Tier 3 (1)
Monitoring Program
CASGEM Well -- Western Upper (12)
City of Modesto Monitoring Well (2)
Prop 68 Monitoring Well (2)
USGS Monitoring Well (1)
N
0
3
Scale in Miles
MW-1S
MW-3S
Hart Road 88
MOD-MWB-1
Curtis #2 100
North Ave 103
MW-1S
Machado 23
Gates
Road 101
MW-4S
Van Buren 43
Warnock 46
MOD-MWD-1
MW-5S
Katen 69
MW-2S
MRWA-2
Young 76
Philbrick 201
MW-2S
Paradise 235
Canfield 90
Escalon
Ripon
Modesto
Waterford
Hickman
Ceres
Hughson
Keyes
Denair
Turlock
Westley
Turlock Lake
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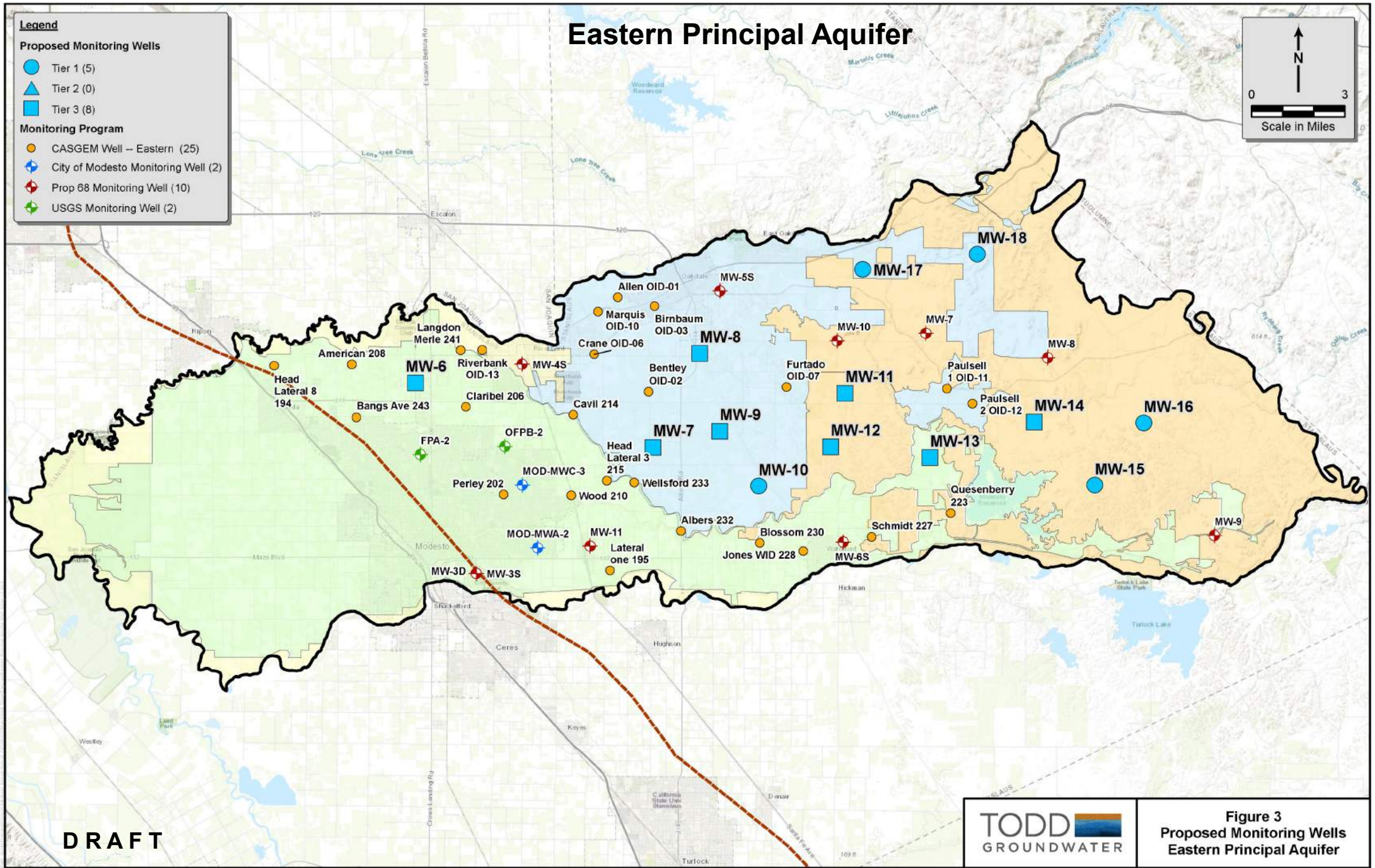
TODD GROUNDWATER
Figure 1
Proposed Monitoring Wells
Western Upper Principal Aquifer


Eastern Principal Aquifer
Legend
Proposed Monitoring Wells
Tier 1 (5)
Tier 2 (0)
Tier 3 (8)
Monitoring Program
CASGEM Well -- Eastern (25)
City of Modesto Monitoring Well (2)
Prop 68 Monitoring Well (10)
USGS Monitoring Well (2)
N
0
3
Scale in Miles
MW-18
MW-17
MW-5S
Allen OID-01
Marquis OID-10
Birnbaum OID-03
MW-8
Crane OID-06
MW-10
MW-7
MW-8
Langdon
Merle 241
American 208
MW-6
Riverbank OID-13
MW-4S
Bentley OID-02
Furtado OID-07
MW-11
Paulsell 1 OID-11
Head Lateral 8 194
Claribel 206
Bangs Ave 243
Cavil 214
Paulsell 2 OID-12
MW-14
MW-16
MW-9
MW-7
MW-12
OFPB-2
FPA-2
MW-13
Head Lateral 3 215
MW-10
MW-15
MOD-MWC-3
Perley 202
Wellsford 233
Wood 210
Quesenberry 223
Albers 232
Schmidt 227
MW-9
MOD-MWA-2
MW-11
Blossom 230
Lateral one 195
Jones WID 228
MW-6S
MW-3D
MW-3S
Modesto
Ceres
Hughson
Hickman
Turlock
Keyes
Denair
Westley
Shackelford
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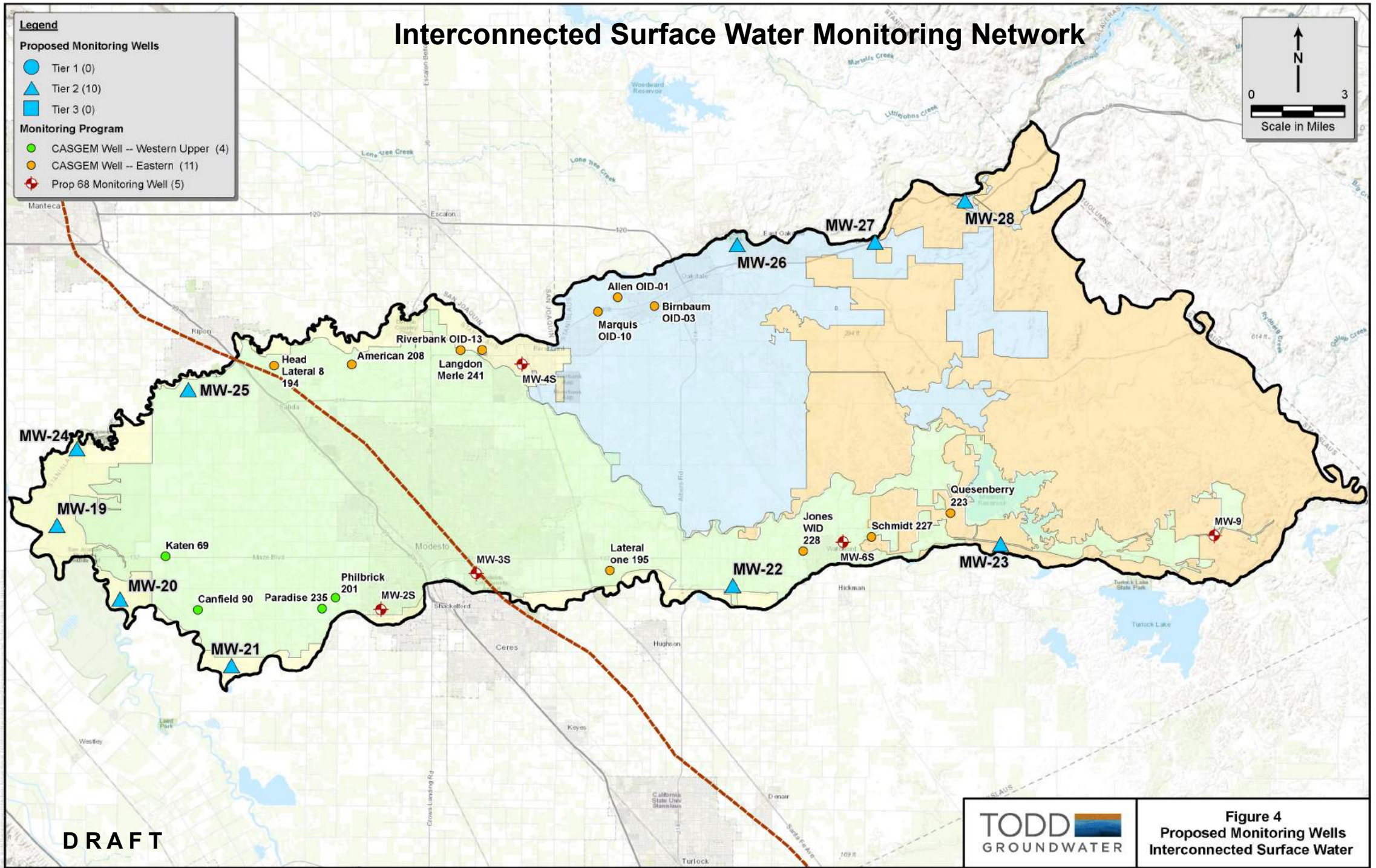
TODD GROUNDWATER
Figure 3
Proposed Monitoring Wells
Eastern Principal Aquifer


Interconnected Surface Water Monitoring Network
Legend
Proposed Monitoring Wells
Tier 1 (0)
Tier 2 (10)
Tier 3 (0)
Monitoring Program
CASGEM Well -- Western Upper (4)
CASGEM Well -- Eastern (11)
Prop 68 Monitoring Well (5)
N
0
3
Scale in Miles
MW-24
MW-25
MW-19
MW-20
MW-21
MW-22
MW-23
MW-26
MW-27
MW-28
Allen OID-01
Birnbaum OID-03
Marquis OID-10
Riverbank OID-13
Langdon Merle 241
American 208
Head Lateral 8 194
MW-4S
MW-3S
MW-2S
MW-6S
MW-9
Jones WID 228
Schmidt 227
Quesenberry 223
Lateral one 195
Philbrick 201
Paradise 235
Canfield 90
Katen 69
Manteca
Ripon
Escalon
Modesto
Ceres
Hughson
Turlock
Denair
Keyes
Hickman
Westley
DRAFT
TODD GROUNDWATER
Figure 4
Proposed Monitoring Wells
Interconnected Surface Water

PROPOSED MONITORING WELL CONSTRUCTION

	Principal Aquifer [2]			Monitoring Network [3]					Drilling & Well Construction																
Well ID [1]	Western Upper	Western Lower	Eastern	GW Levels	ISW	Priority [4] (1-3)	X (feet)	Y (feet)	Ground Surface Elevation (feet MSL)	Total Borehole Depth (feet)	Total Well Depth (feet)	Top of Blank Casing (feet-bgs)	Bottom of Blank Casing (feet-bgs)	Length of Blank Casing + Tailpipe (feet)	Top of Screened Interval (feet-bgs)	Bottom of Screen Interval (feet-bgs)	Tailpipe Length (feet)	Screen Length (feet)	Top of Filter Pack (feet-bgs)	Bottom of Filter Pack (feet-bgs)	Filter Pack Length (feet)	Top Bentonite Transition Seal (feet-bgs)	Bottom Bentonite Transition Seal (feet-bgs)	Bentonite Transition Seal Length (feet)	Top Cement Sanitary Seal (feet-bgs)	Bottom Cement Sanitary Seal (feet-bgs)	Cement Sanitary Seal Length (feet)
MW-1S	X			X		1	6363644.28	2064878.56	35	175	170	-2	145	152	145	165	5	20	140	175	35	135	140	5	0	135	135
MW-1D		X		X		1	6363644.28	2064878.56	35	290	285	-2	260	267	260	280	5	20	255	290	35	250	255	5	0	250	250
MW-2S	X			X		1	6374889.24	2050523.94	46	190	185	-2	160	167	160	180	5	20	155	190	35	150	155	5	0	150	150
MW-2D		X		X		1	6374889.24	2050523.94	46	300	295	-2	270	277	270	290	5	20	265	300	35	260	265	5	0	260	260
MW-3S	X			X		1	6373092.82	2074455.73	46	180	175	-2	150	157	150	170	5	20	145	180	35	140	145	5	0	140	140
MW-3D		X		X		1	6373092.82	2074455.73	46	290	285	-2	260	267	260	280	5	20	255	290	35	250	255	5	0	250	250
MW-4S	X			X		1	6386596.48	2062291.65	59	175	170	-2	145	152	145	165	5	20	140	175	35	135	140	5	0	135	135
MW-4D		X		X		1	6386596.48	2062291.65	59	300	295	-2	270	277	270	290	5	20	265	300	35	260	265	5	0	260	260
MW-5S	X			X		3	6413342.52	2056482.65	86	160	155	-2	130	137	130	150	5	20	125	160	35	120	125	5	0	120	120
MW-5D		X		X		3	6413342.52	2056482.65	86	265	260	-2	235	242	235	255	5	20	230	265	35	225	230	5	0	225	225
MW-06			X	X		3	6415928.68	2084921.55	102	165	160	-2	135	142	135	155	5	20	130	165	35	125	130	5	0	125	125
MW-07			X	X		3	6456254.48	2073980.64	152	180	175	-2	150	157	150	170	5	20	145	180	35	140	145	5	0	140	140
MW-08			X	X		3	6464173.24	2089919.26	194	225	220	-2	195	202	195	215	5	20	190	225	35	185	190	5	0	185	185
MW-09			X	X		3	6467529.78	2076741.48	179	205	200	-2	175	182	175	195	5	20	170	205	35	165	170	5	0	165	165
MW-10			X	X		1	6474124.39	2067381.38	163	200	195	-2	170	177	170	190	5	20	165	200	35	160	165	5	0	160	160
MW-11			X	X		3	6488826.02	2083148.43	203	230	225	-2	200	207	200	220	5	20	195	230	35	190	195	5	0	190	190
MW-12			X	X		3	6486362.77	2074066.41	204	230	225	-2	200	207	200	220	5	20	195	230	35	190	195	5	0	190	190
MW-13			X	X		3	6503235.74	2072210.93	178	255	250	-2	225	232	225	245	5	20	220	255	35	215	220	5	0	215	215
MW-14			X	X		3	6520944.07	2078287.32	206	305	300	-2	275	282	275	295	5	20	270	305	35	265	270	5	0	265	265
MW-15			X	X																			270	5	0	265	265
MW-16			X	X																			335	5	0	330	330
MW-17			X	X																			235	5	0	230	230
MW-18			X	X																			435	5	0	430	430
MW-19	X				X																		125	5	0	120	120
MW-20	X				X																		145	5	0	140	140
MW-21	X				X																		125	5	0	120	120
MW-22			X		X																		140	5	0	135	135
MW-23			X		X																		175	5	0	170	170
MW-24	X				X																		185	5	0	180	180
MW-25	X				X																		145	5	0	140	140
MW-26			X		X																		150	5	0	145	145
MW-27			X		X																		135	5	0	130	130
MW-28			X		X	2	6509191.95	2115845.44	194	200	195	-2	170	177	170	190	5	20	165	200	35	160	165	5	0	160	160

Proposed monitoring well construction based on:

- Conceptual location
- Depth to the top and bottom of the Corcoran Clay
- Depth to water

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QUESTIONS?