

Notice and Agenda of a Workshop of the Yucaipa Sustainable Groundwater Management Agency

Wednesday, May 22, 2019 at 10:00 a.m.

City of Yucaipa, 34272 Yucaipa Boulevard
Yucaipa, California 92399
(909) 797-2489 | www.yucaipasgma.org

- I. Call to Order**
- II. Roll Call**
- III. Introductions of Board Members and Public Participants**
- IV. Public Comments** At this time, members of the public may address the representatives of the Yucaipa Groundwater Sustainability Agency on matters within its jurisdiction.
- V. Review and Approval of Meeting Minutes**
 - A. Meeting Minutes - April 24, 2019 [\[Page 3 of 31\]](#)
- VI. Discussion Items**
 - A. Discussion Regarding the Preparation of a Groundwater Sustainability Plan - Dudek / Tim Kellett
 - B. Status Report on the Sustainable Groundwater Management Act Grant and Financial Status - Tim Kellett
 - C. Consideration of Approving the Public Outreach Plan for the Yucaipa Sustainable Groundwater Management Agency - Zoe Carlson
 - D. Discussion Regarding the Conceptual Model Used to Prepare the Groundwater Sustainability Plan - Tim Kellett [\[Page 5 of 31\]](#)
 - E. Discussion Regarding the Inclusion of Potential Recharge Projects in the Baseline Groundwater Model
 - F. Discussion Regarding a Tentative Meeting Date for an Elected Official Meeting to Receive a Status Report of the Yucaipa Sustainable Groundwater Management Agency
- VII. Topics for Future Meetings**
- VIII. Comments by Board of Directors**
- IX. Announcements - Future Meetings**
 - A. *Wednesday, June 19, 2019 at 6:00 pm - Elected Officials Overview - Yucaipa Performing Arts Center, 12062 California Street, Yucaipa, California - **Tentative date and location.***
 - B. Wednesday, June 26, 2019 at 10:00 am - Workshop
 - C. Wednesday, July 24, 2019 at 10:00 am - Board Meeting
 - D. Wednesday, August 28, 2019 at 10:00 am - Workshop
 - E. Wednesday, September 25, 2019 at 10:00 am - Workshop
 - F. Wednesday, October 23, 2019 at 10:00 am - Board Meeting
 - G. *Wednesday, October 30, 2019 at 6:00 pm - Public Meeting No. 1 - Yucaipa Performing Arts Center, 12062 California Street, Yucaipa, California - **Tentative date and location.***
 - H. Wednesday, January 22, 2020 at 10:00 am - Board Meeting
- X. Adjournment**

Roll Call - Board of Directors

	Present	Primary Representative	Present	Alternative Representative
Purveyors				
South Mesa Water Company		David Armstrong		George Jorritsma
South Mountain Water Company		Bob Martin		Rolland Moore
Western Heights Water Company		Mark Iverson		Tim Green
Yucaipa Valley Water District		Joseph Zoba		Jennifer Ares
Municipals				
City of Redlands		Cecilia Griego		- -
City of Yucaipa		Ray Casey		Fermin Preciado
Regionals				
San Bernardino Valley MWD		Doug Headrick		Bob Tincher
San Gorgonio Pass Water Agency		Jeff Davis		Leonard Stephenson
* Quorum of the Board of Directors requires a total of five Purveyor, Municipal, Regional Members				
Stakeholders				
County of Riverside		Steve Horn		Jeff Johnson
County of San Bernardino		Bob Page		- -
City of Calimesa		Lori Askew		Bonnie Johnson

Future Dates and Milestones

The dates provided below are subject to change.

Presentation of the Goals and Objectives of the Groundwater Sustainability Plan to Elected Officials	Wednesday, June 19, 2019
Public Presentation of the Goals and Objectives of the Groundwater Sustainability Plan - Meeting Number 1	Wednesday, October 30, 2019
Distribution of the Administrative Draft of the Yucaipa SGMA Groundwater Sustainability Plan	Monday, July 20, 2019
Release of the Draft Yucaipa SGMA Groundwater Sustainability Plan for Public Comment	Monday, January 18, 2021
Final Groundwater Sustainability Plan Submitted to the Department of Water Resources for Review and Approval	Monday, May 24, 2021

MINUTES OF THE YUCAIPA SUSTAINABLE GROUNDWATER MANAGEMENT AGENCY

April 24, 2019 - 10:00 a.m.

City of Yucaipa, 34272 Yucaipa Boulevard, Yucaipa, California

I. Call to Order - Chairman Mark Iverson called the meeting to order at 10:00 a.m.

II. Roll Call - The following representatives, as assigned by each Party, attended the meeting:

Purveyors	Present	Primary Representative	Present	Alternative Representative
South Mesa Water Company	✓	David Armstrong	✓	George Jorritsma
South Mountain Water Company		Bob Martin	✓	Rolland Moore
Western Heights Water Company	✓	Mark Iverson	✓	Tim Green
Yucaipa Valley Water District	✓	Joseph Zoba	✓	Jennifer Ares
Municipals				
City of Redlands	✓	Cecilia Griego	✓	Kevin Watson
City of Yucaipa		Ray Casey	✓	Fermin Preciado
Regionals				
San Bernardino Valley MWD		Doug Headrick		Bob Tincher
San Gorgonio Pass Water Agency		Jeff Davis	✓	Leonard Stephenson
Stakeholders				
County of Riverside		Steve Horn		Jeff Johnson
County of San Bernardino		Bob Page		
City of Calimesa		Lori Askew		Bonnie Johnson

A quorum of the Board of Directors was present to start the meeting. Representatives from the City of Redlands arrived prior to discussion item VI.C.

III. Introductions of Board Members and Public Participants - In addition to the Board of Directors identified above, the following members of the public attended the meeting.

- Zoe Carlson - Dudek
- Derek Hoffman, Attorney representing South Mesa Mutual Water Company
- Tim Kellett, San Bernardino Valley Municipal Water District
- Paul Kielhold - San Bernardino Valley Municipal Water District
- Bob Ohlund, Dudek
- Mike Podegraz, Charles Abbott Associates (City of Yucaipa)
- Bob Zappia - Western Heights Water Company

IV. Public Comments - There were no public comments.

V. Review and Approval of Meeting Minutes

A. Approval of Meeting Minutes of March 27, 2019

Joseph Zoba moved to approve the meeting minutes of March 27, 2019. Fermin Preciado seconded the motion. The Board of Directors unanimously approved the motion.

VI. Discussion Items

A. Discussion Regarding the Preparation of a Groundwater Sustainability Plan

Tim Kellett stated that the data request from Dudek has been completed.

At the next meeting, there will be a discussion about the groundwater model to discuss the USGS calibration issues related to the storage capacity of the groundwater study area.

B. Status Report on the Sustainable Groundwater Management Act Grant and Financial Status

Tim Kellett reported that the first progress report will be submitted to the Department of Water Resources this week.

C. Discussion Regarding the Outreach Efforts for the Yucaipa Sustainable Groundwater Management Agency

Zoe Carlson presented the proposed outreach and engagement concepts for the Yucaipa Sustainable Groundwater Management Agency. The proposed outreach plan will be presented for approval at the meeting on May 22, 2019.

VII. Topics for Future Meetings - Mark Iverson discussed adding the following topics to discuss in the future:

- Review the conceptual model and calibration issues - May 2019
- Discuss potential recharge projects to be included in the groundwater model - May 2019
- Review the potential project criteria - August 2019

VIII. Comments by the Board of Directors - There were no comments from the board members.

IX. Announcements - The next meeting of the Yucaipa Sustainable Groundwater Management Agency will be a Board Meeting on Wednesday, May 22, 2019 at 10:00 a.m.

X. Adjournment - The meeting was adjourned at 10:40 a.m.

Yucaipa SGMA GSP Development

Steven Stuart, Dudek
May 22, 2019

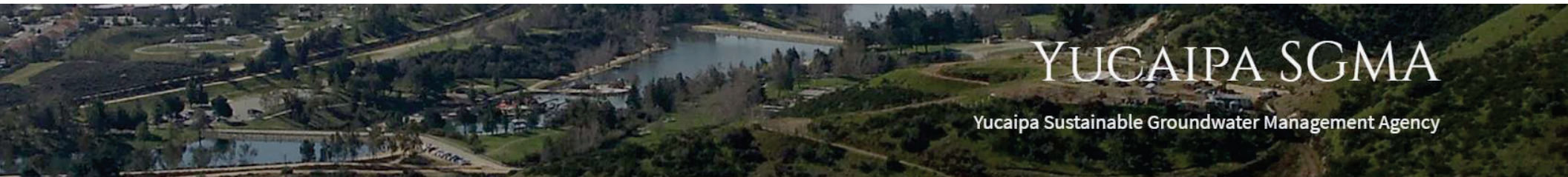
DUDEK

Outline for Today

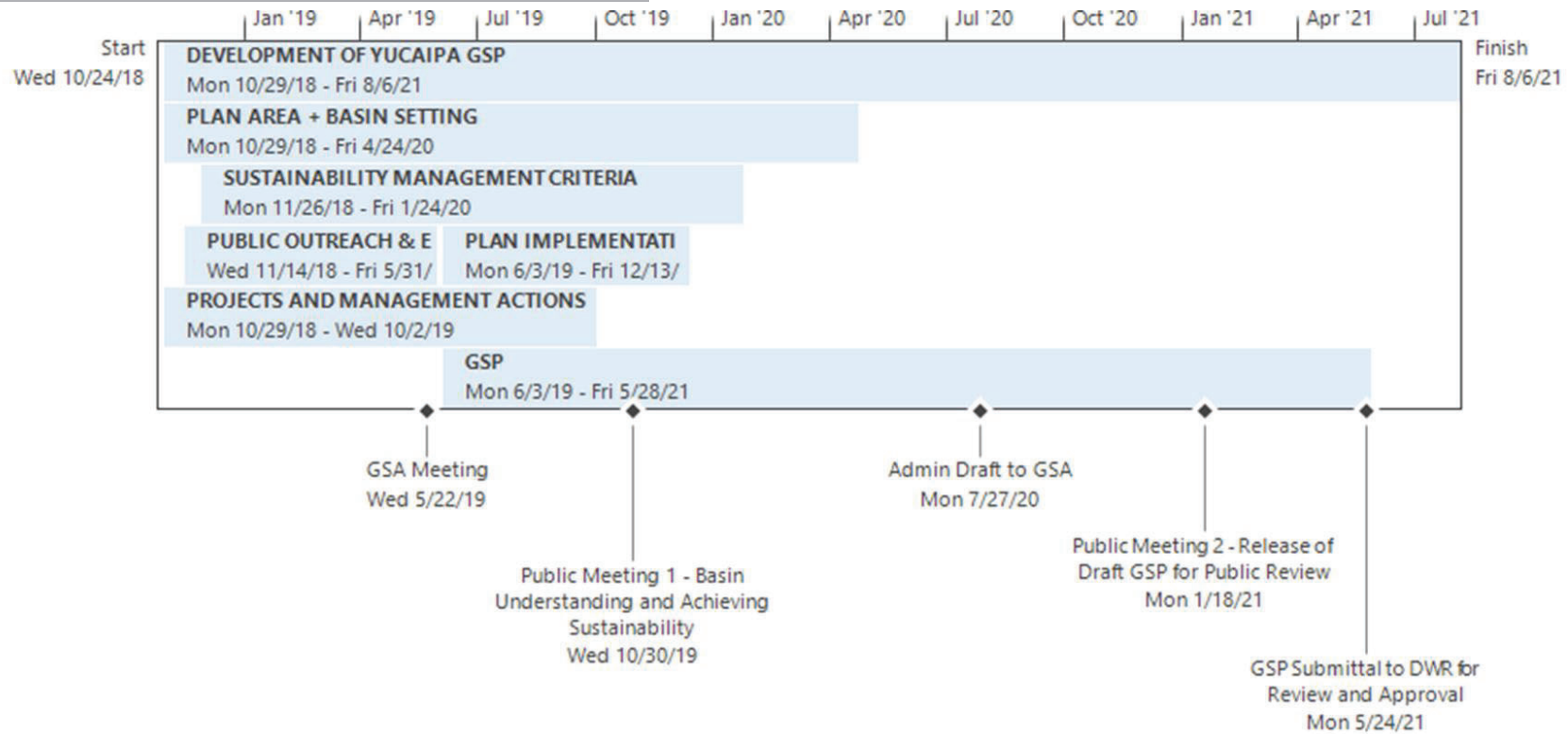
- ✓ Phases of SGMA
- ✓ Project Schedule
- ✓ Sustainability Criteria
- ✓ Draft Figures for *Plan Area and Basin Setting* Chapter in GSP
- ✓ Budget Update



Phases of SGMA



GSP Development Schedule

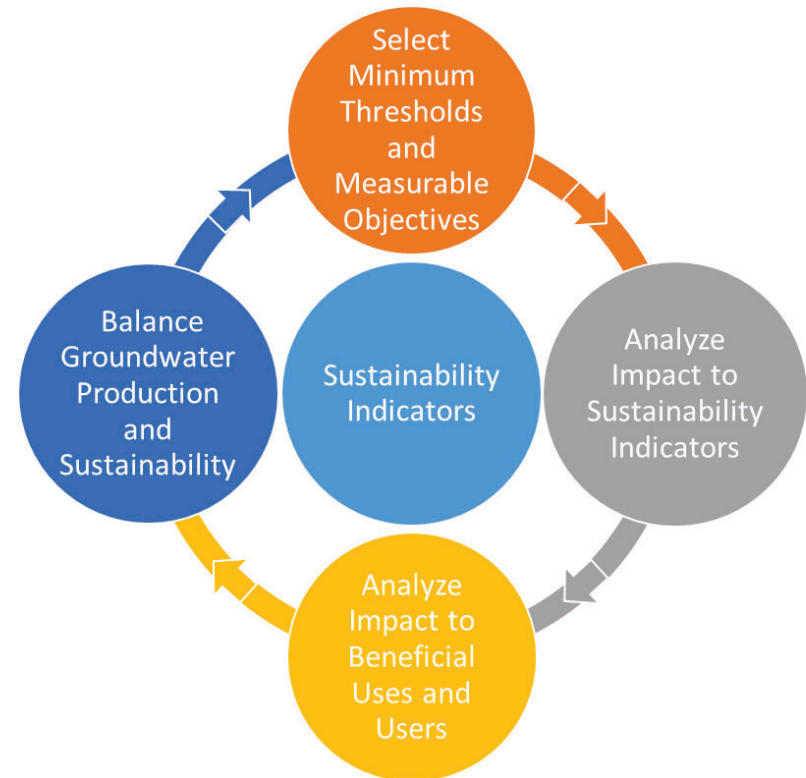


YUCAIPA SGMA

Yucaipa Sustainable Groundwater Management Agency

SGMA Sustainability

- SGMA Core:
 - **Sustainability Indicators**
- Basin management will be based on **measurable objectives** and **minimum thresholds** defined to prevent significant and unreasonable impacts to the sustainability indicators



SGMA Sustainability

SUSTAINABILITY INDICATORS



Groundwater elevation



Groundwater in storage



Groundwater quality



Land Subsidence



Interconnected surface water and groundwater



Seawater Intrusion



YUCAIPA SGMA

Yucaipa Sustainable Groundwater Management Agency

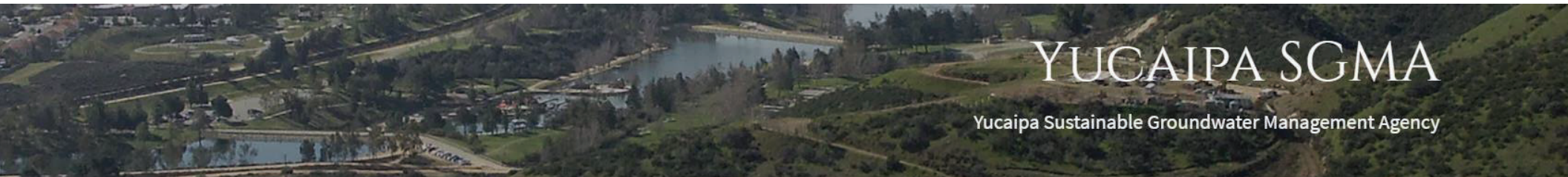
Figures in *Plan Area and Basin Setting* Chapter in GSP

BASIN DESCRIPTIONS

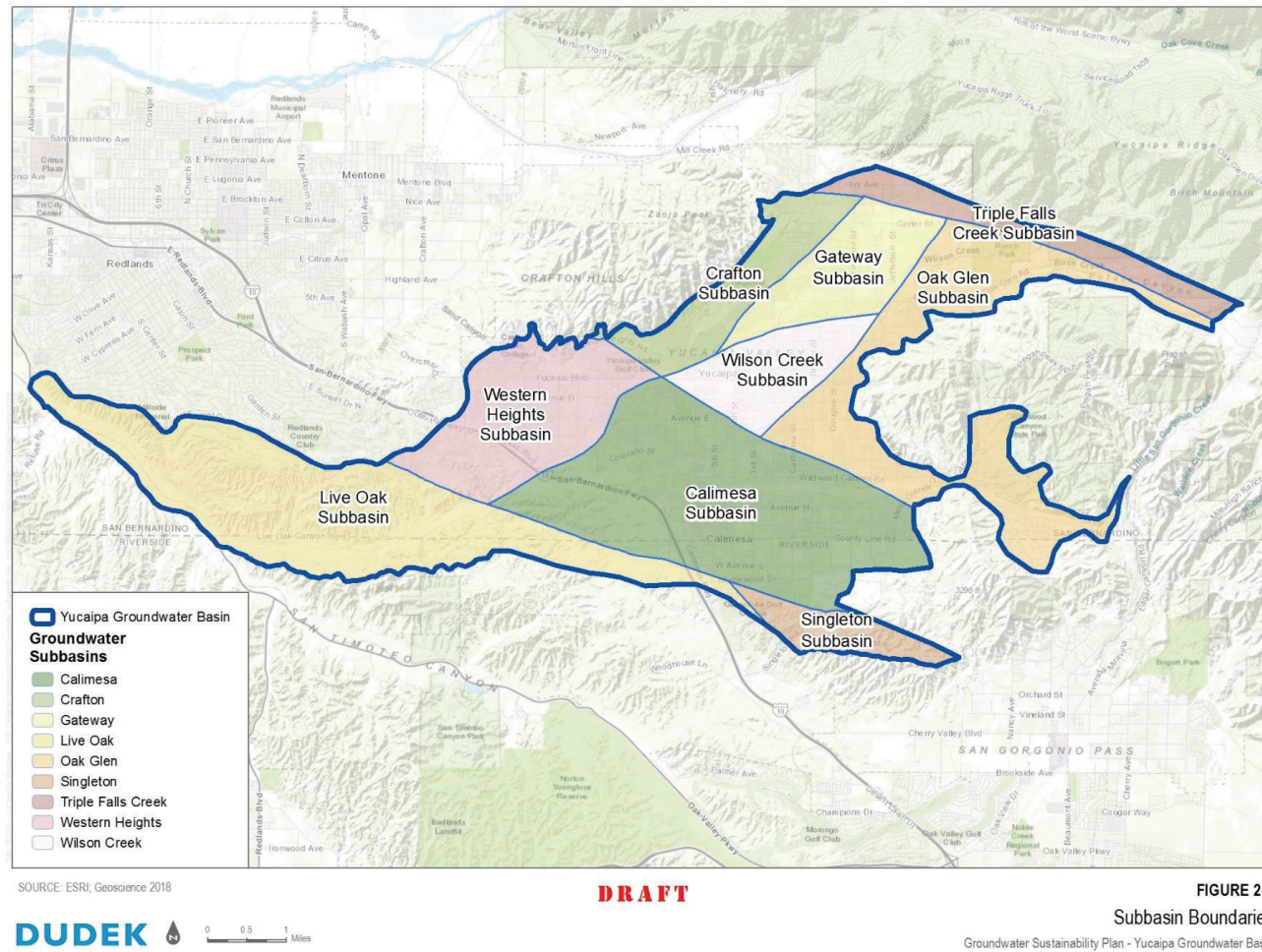
- ✓ Sub-Basin Boundaries
- ✓ Jurisdictional Boundaries
- ✓ Existing Land Uses
- ✓ Disadvantaged Communities
- ✓ Density of Wells
- ✓ Groundwater Dependent Ecosystems

GEOLOGY & HYDROGEOLOGY

- ✓ Topography with Surficial Geology
- ✓ Surface Water Bodies and Geological Cross-Sections Lines
- ✓ Geological Cross-Sections
- ✓ 3D Conceptual Model



Sub-Basin Boundaries



Jurisdictional Boundaries

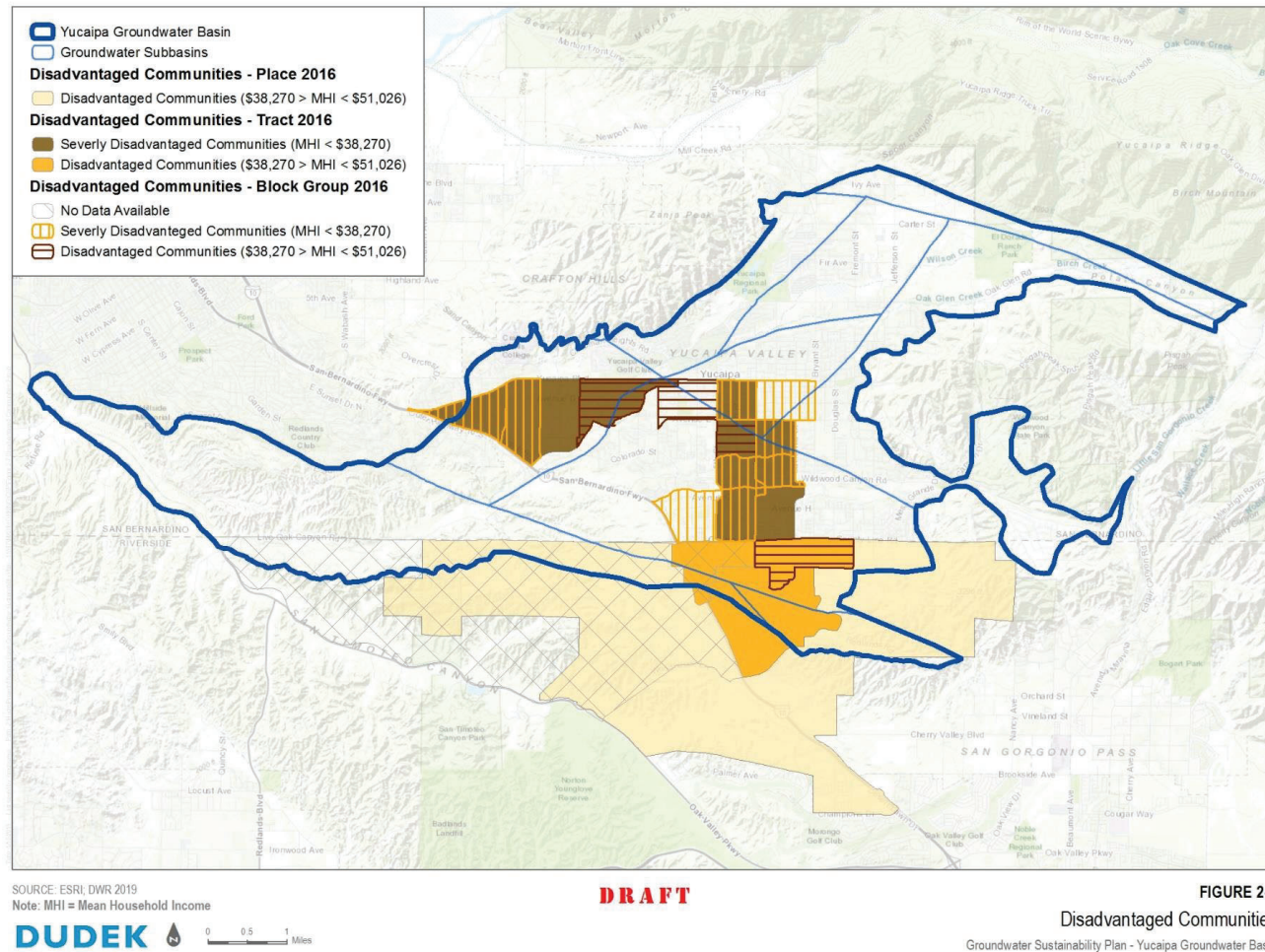




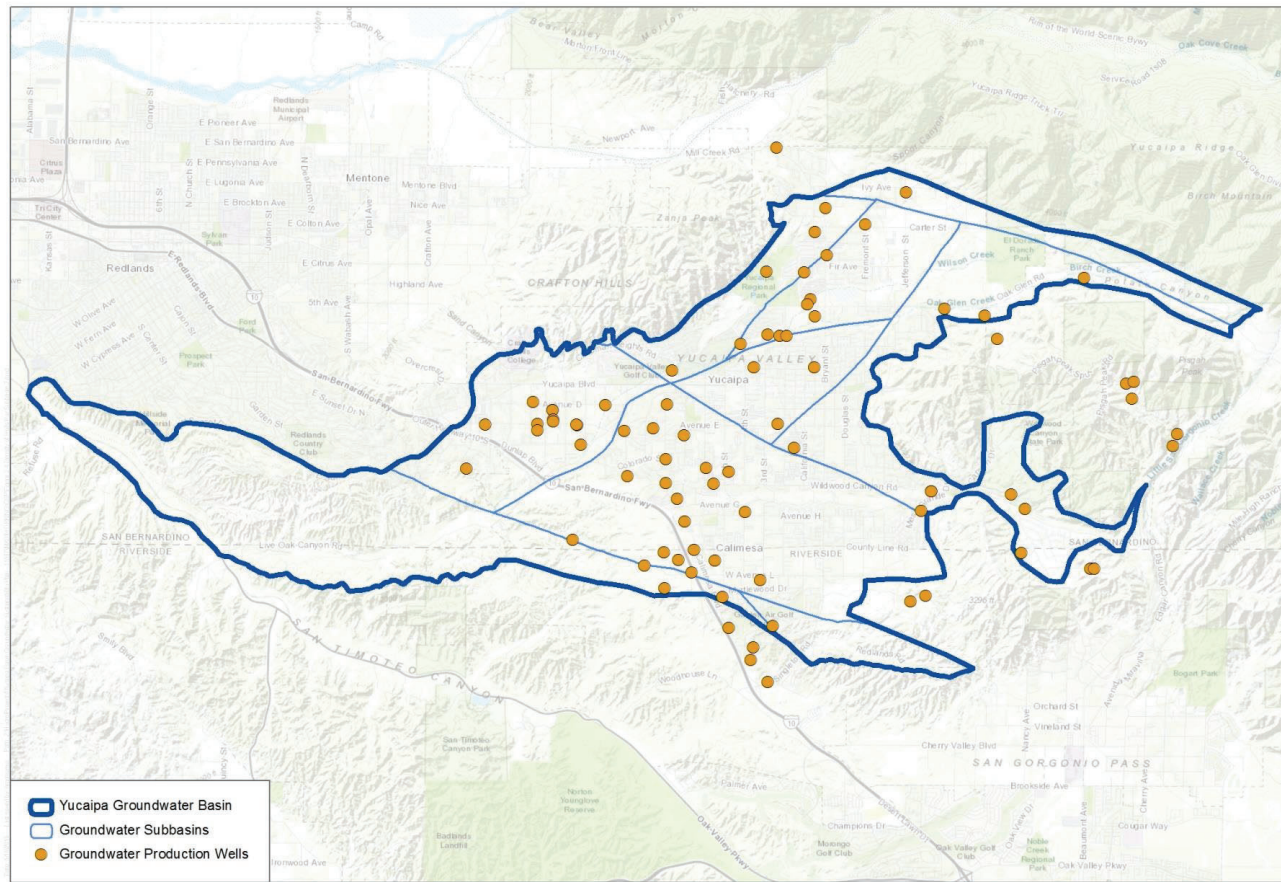
Land Use Designations

Groundwater Sustainability Plan - Yucaipa Groundwater Basin

Disadvantaged Communities



Density of Wells



SOURCE: ESRI, Geoscience 2018

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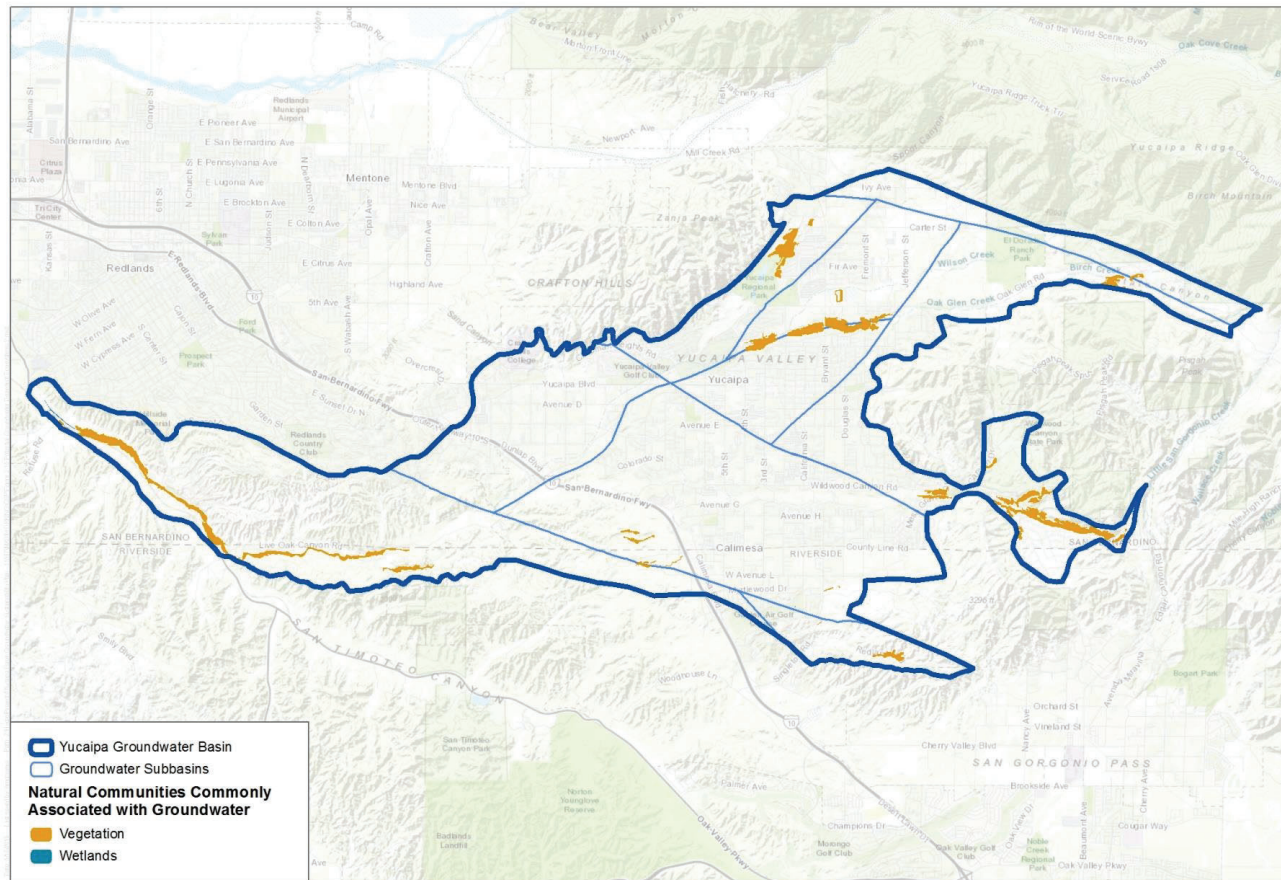
FIGURE 2-4

Density of Production Wells

Groundwater Sustainability Plan - Yucaipa Groundwater Basin



Groundwater Dependent Ecosystems



SOURCE: ESRI, DWR 2018

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FIGURE 2-15

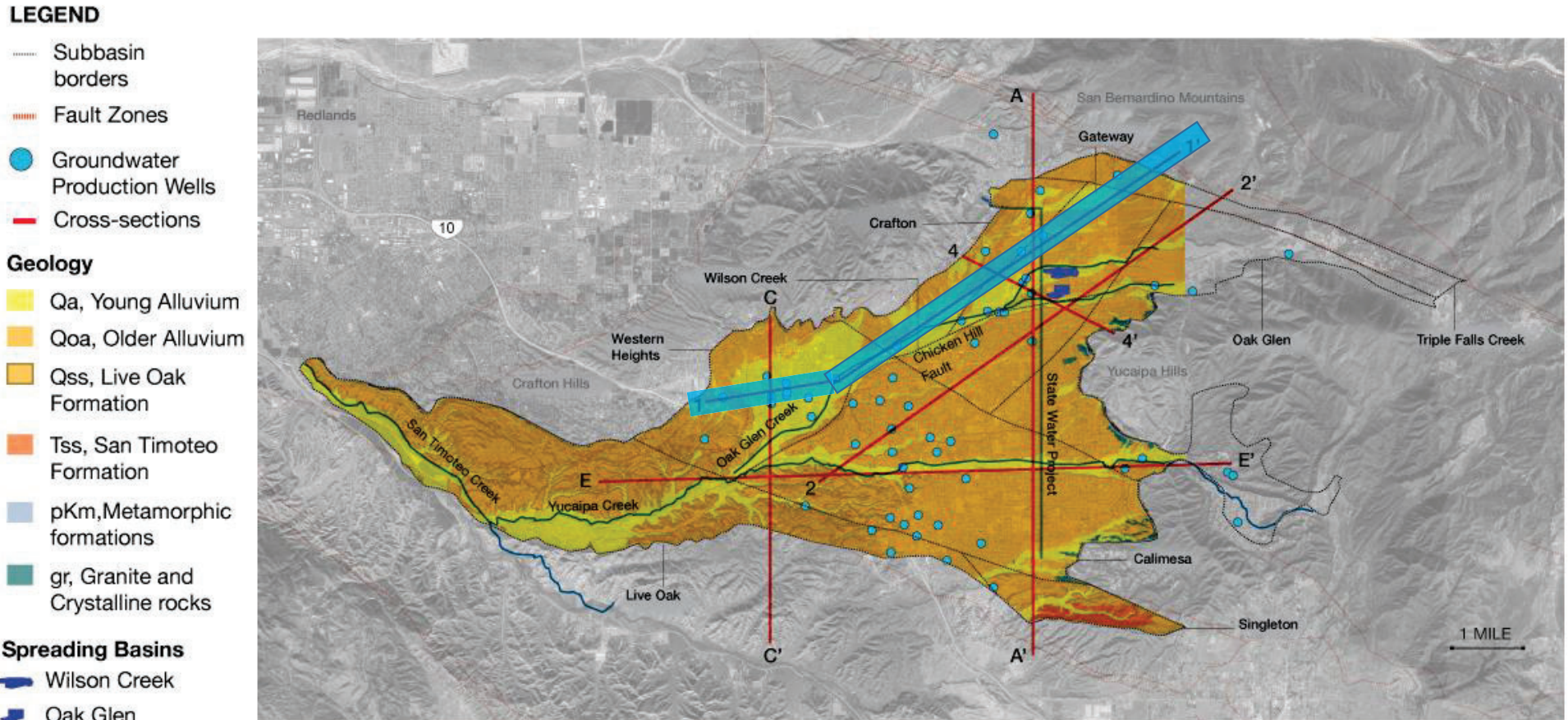
DUDEK 0 0.5 1 Miles

Potential Groundwater Dependent Ecosystems
Groundwater Sustainability Plan - Yucaipa Groundwater Basin

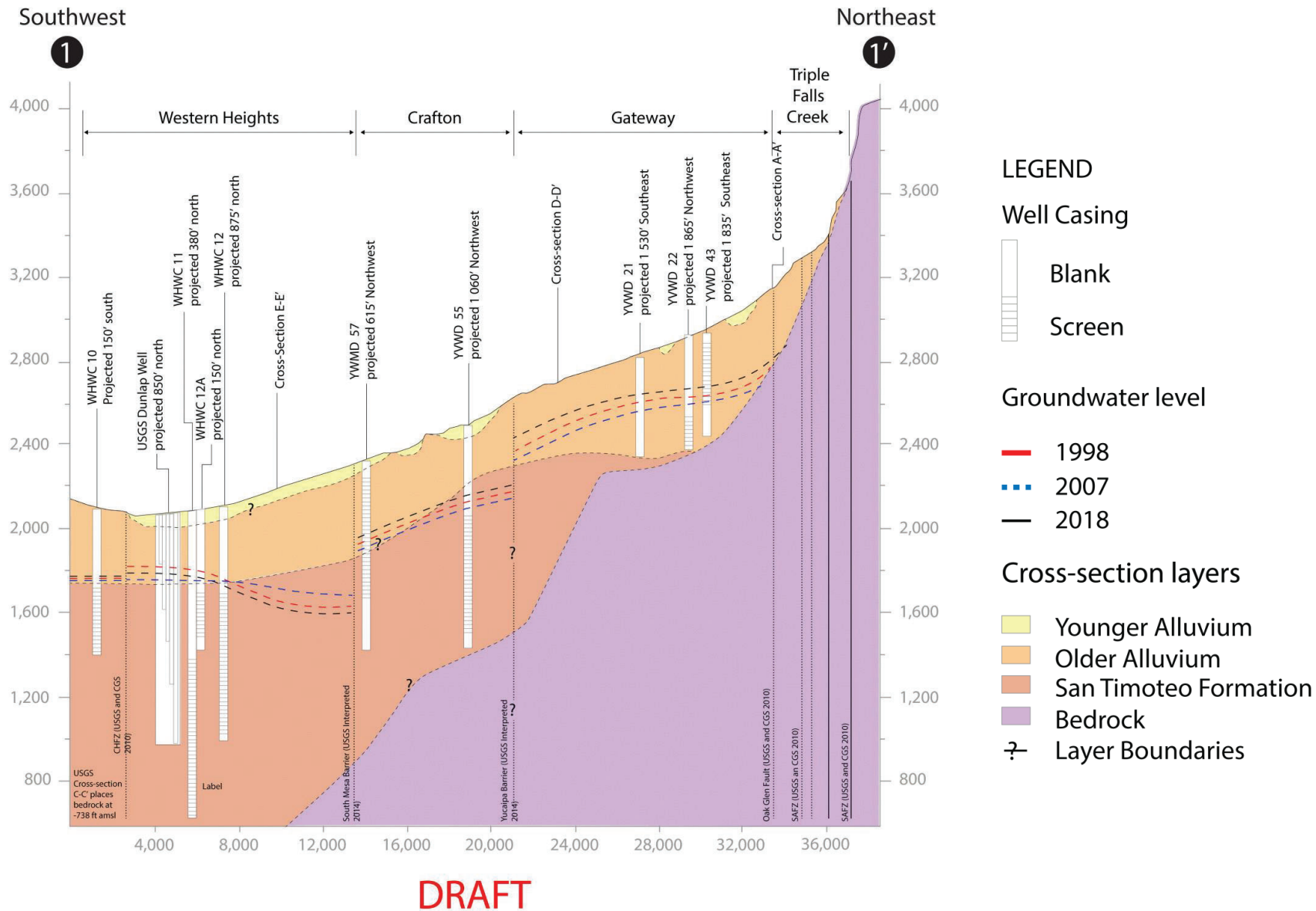
Topography with Surficial Geology



Surface Water Bodies and Geological Cross-Sections



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Surface Water Bodies and Geological Cross-Sections

LEGEND

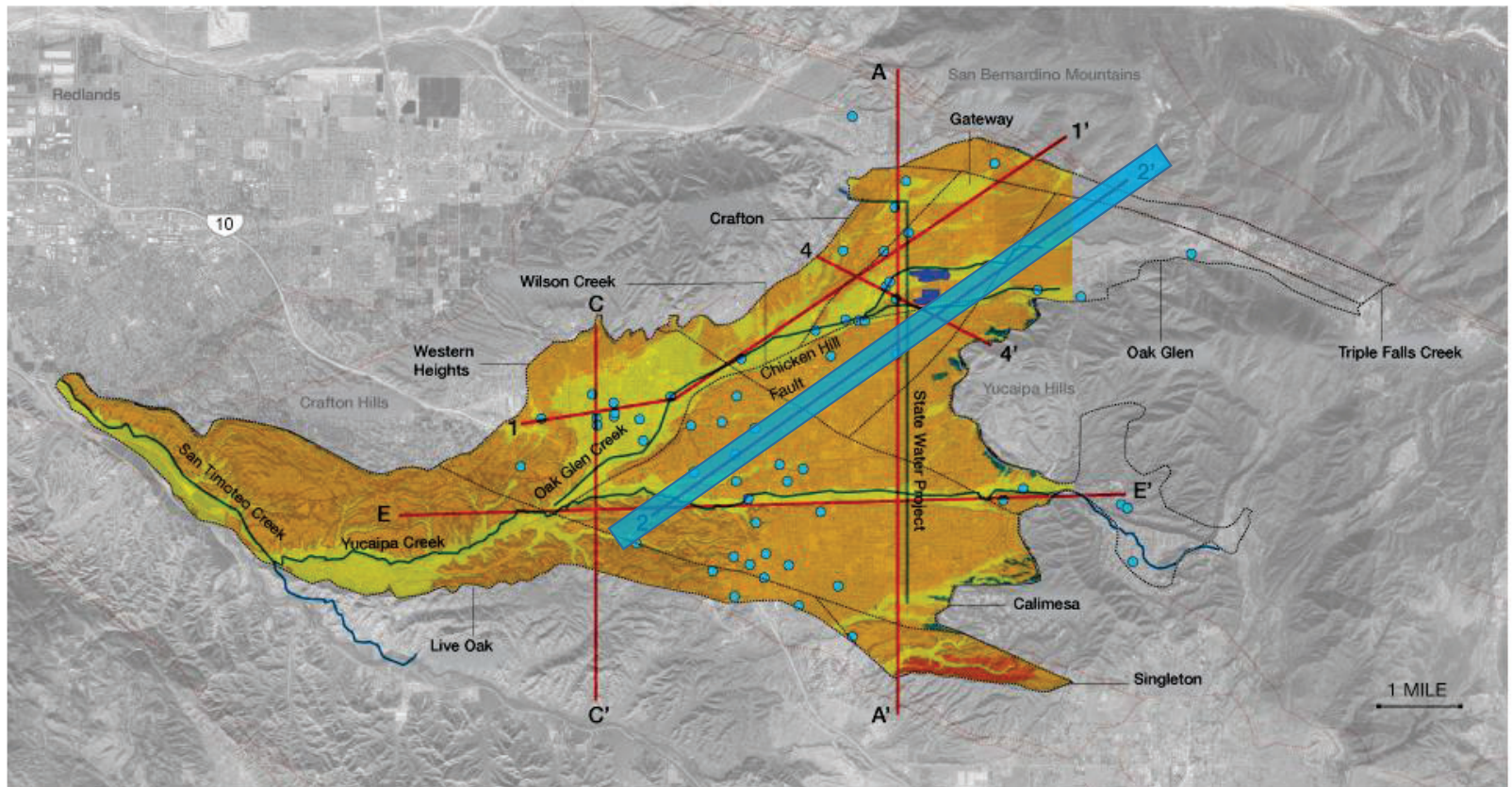
- Subbasin borders
- ||||| Fault Zones
- Groundwater Production Wells
- Cross-sections

Geology

- Qa, Young Alluvium
- Qoa, Older Alluvium
- Qss, Live Oak Formation
- Tss, San Timoteo Formation
- pKm, Metamorphic formations
- gr, Granite and Crystalline rocks

Spreading Basins

- Wilson Creek
- Oak Glen



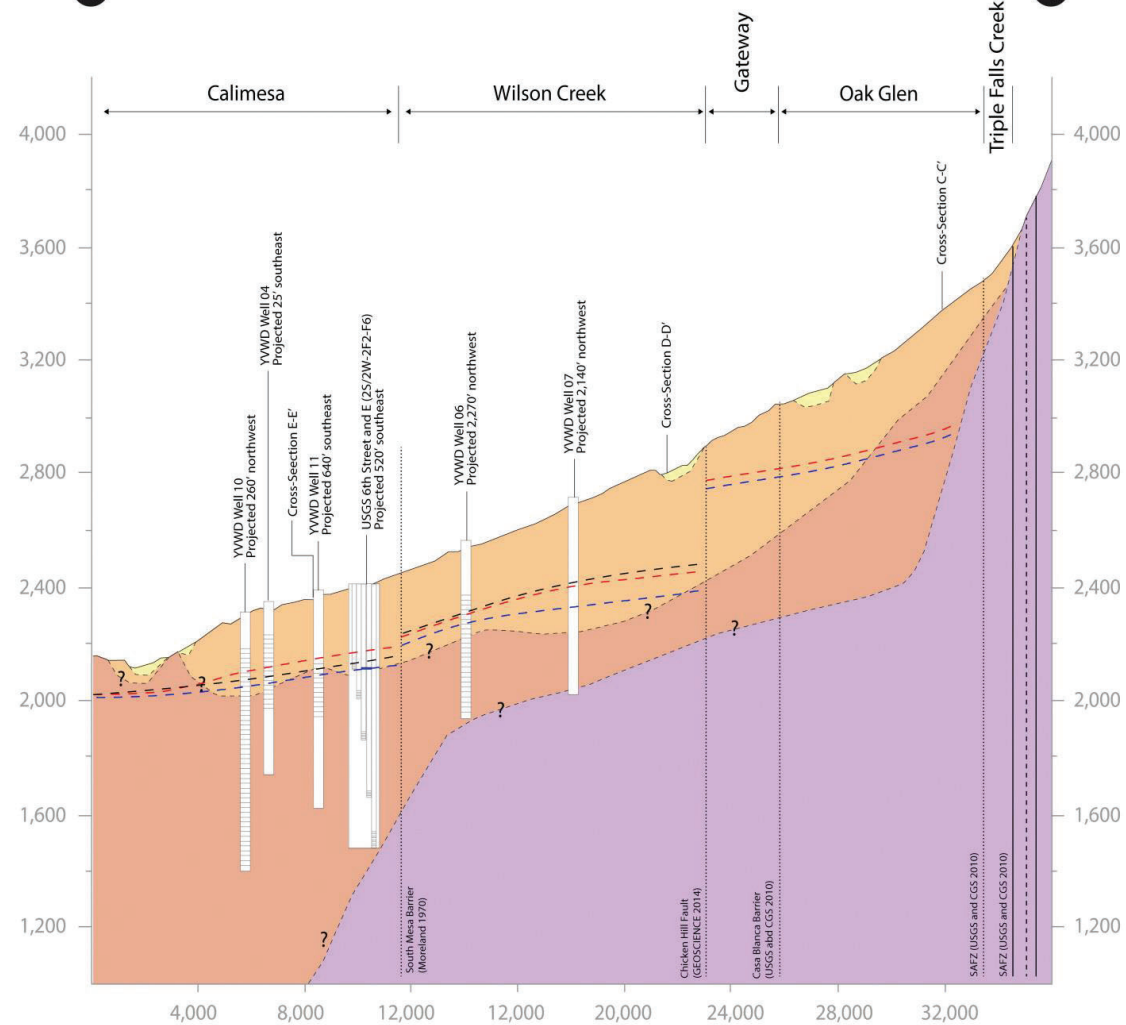
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Southwest

2

Northeast

2



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Well Casing



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Screen

Groundwater level

1998

2007

2018

Cross-section layers

Younger Alluvium

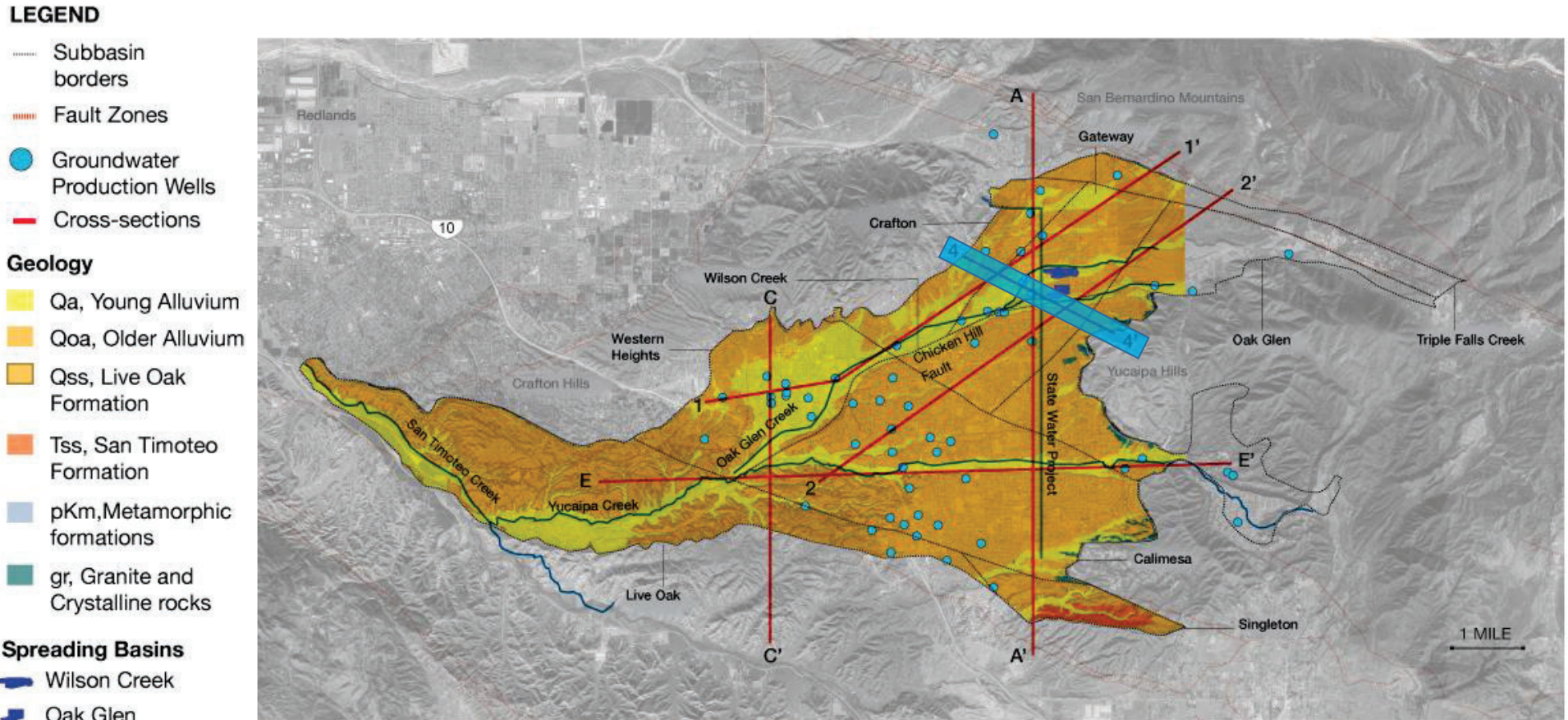
Older Alluvium

San Timoteo Formation

Bedrock

Layer Boundaries

Surface Water Bodies and Geological Cross-Sections



Northwest

4

Southeast

4'

LEGEND

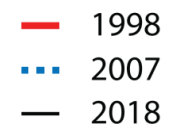
Well Casing



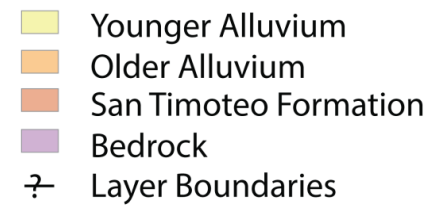
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Screen

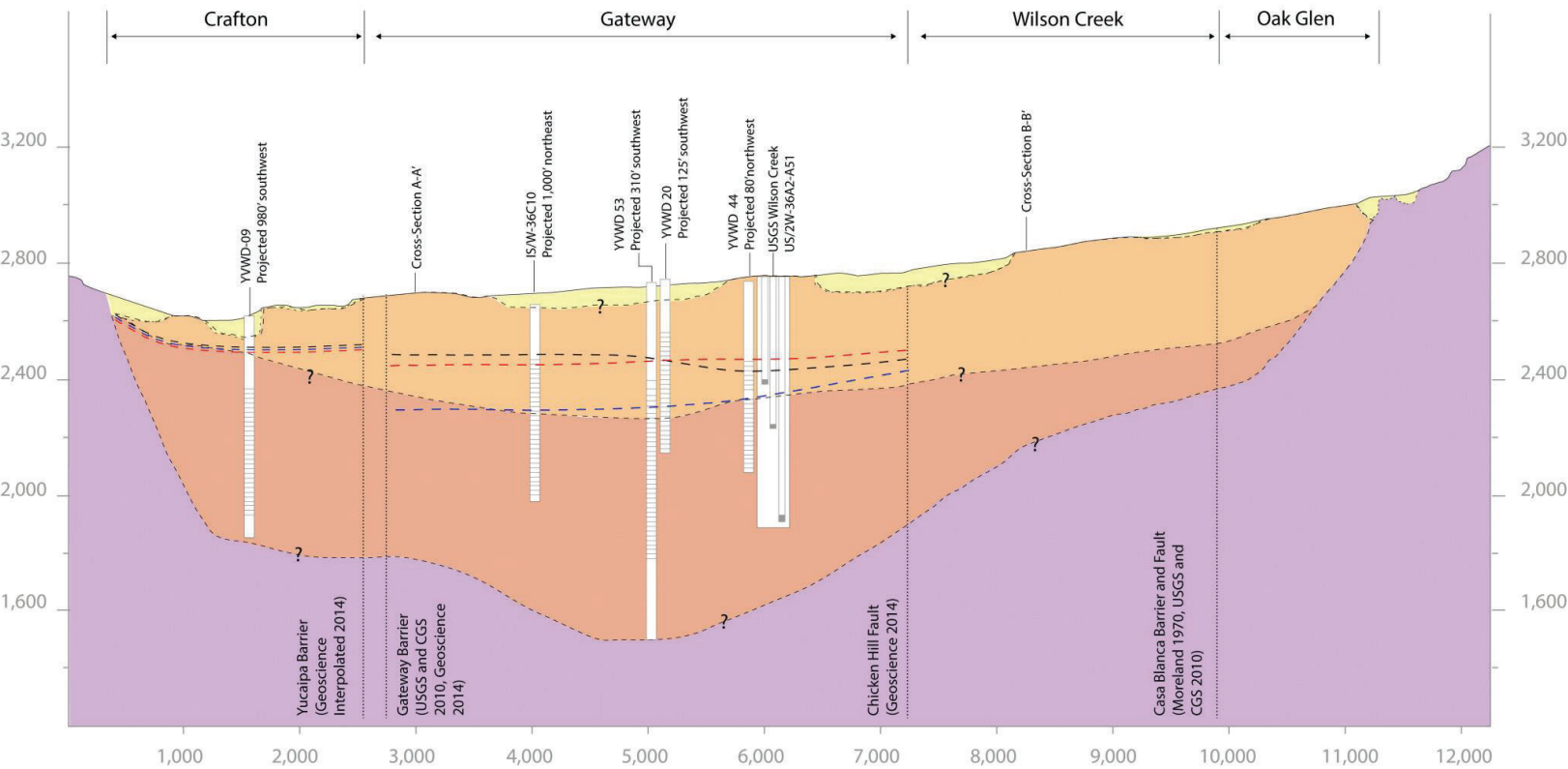
Groundwater level



Cross-section layers

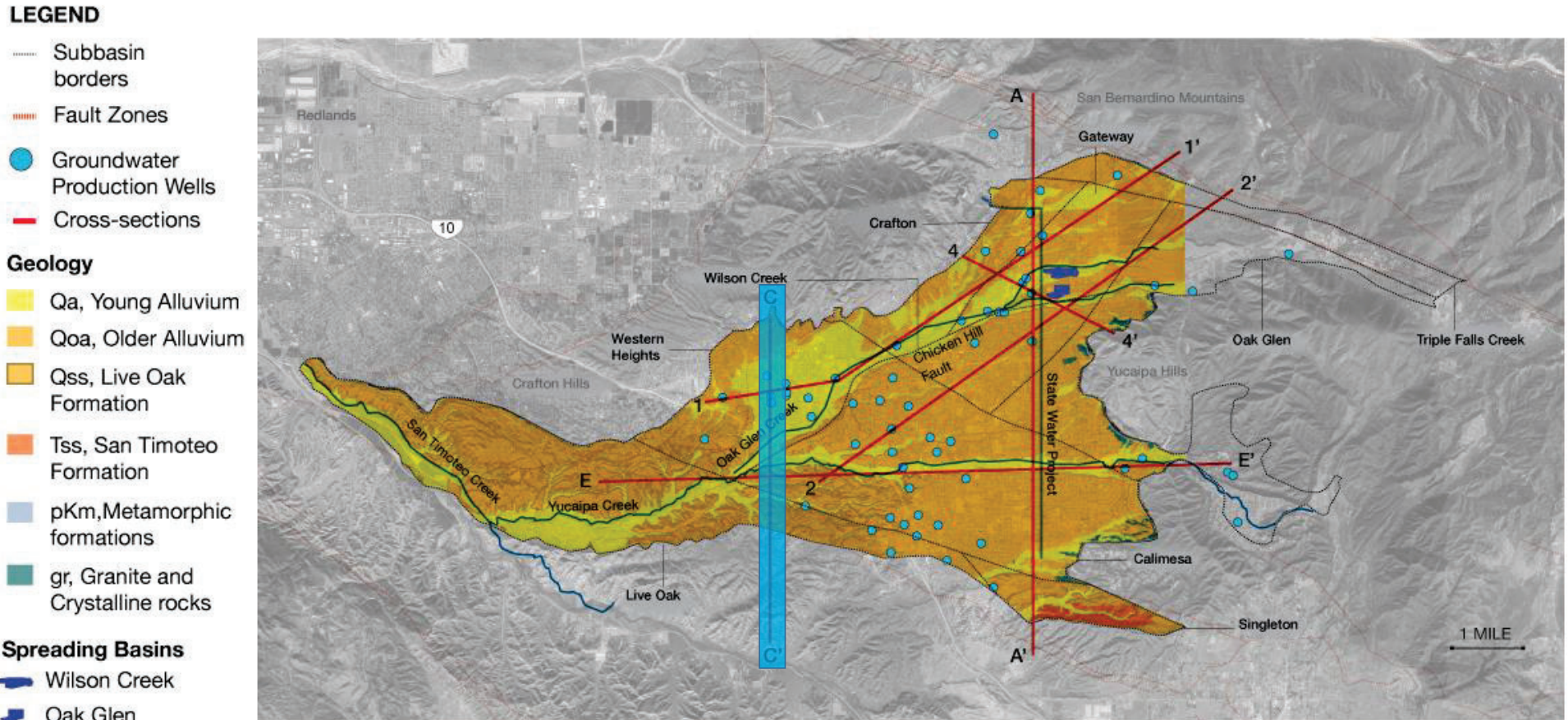


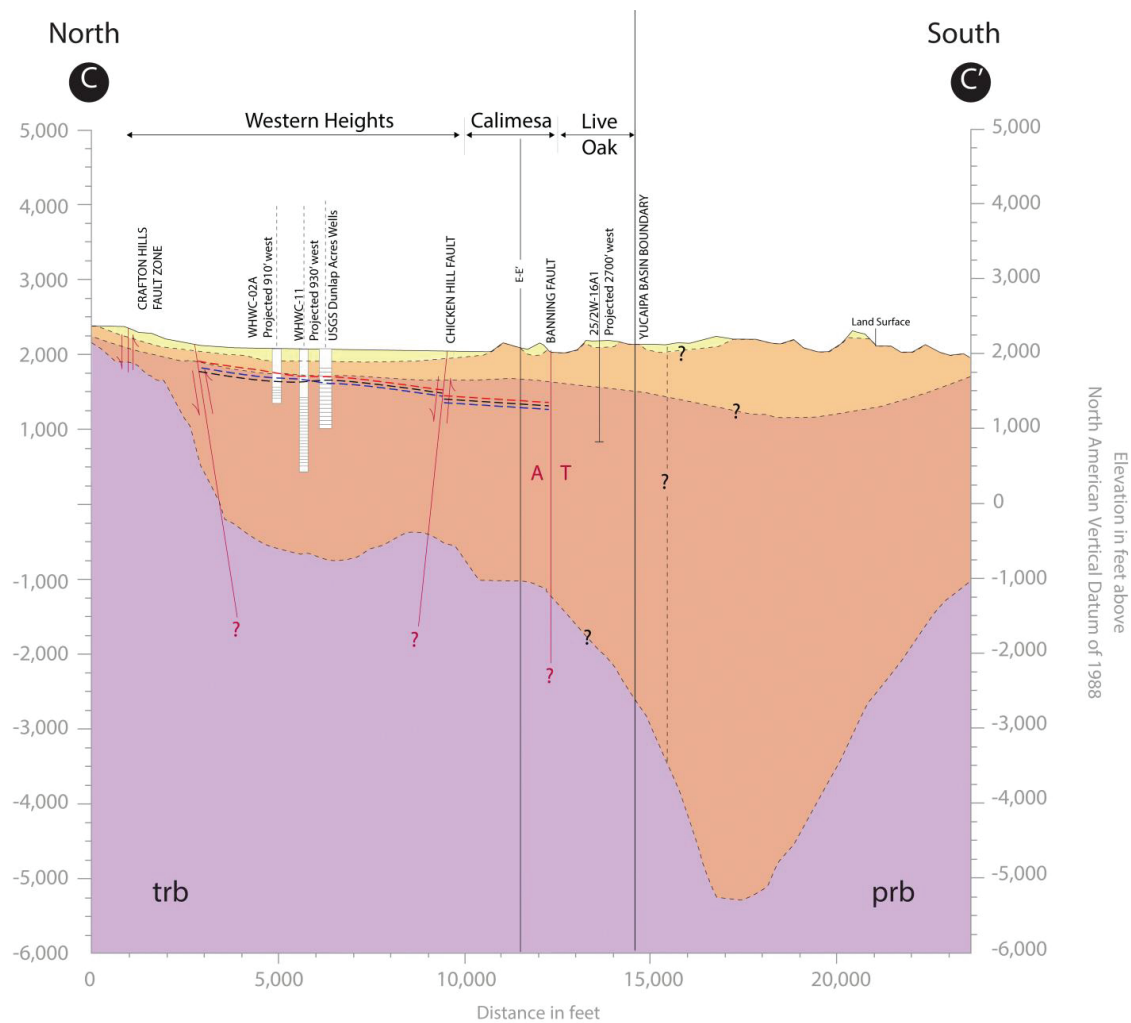
Layer Boundaries



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Surface Water Bodies and Geological Cross-Sections





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LEGEND

Well Casing



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Screen

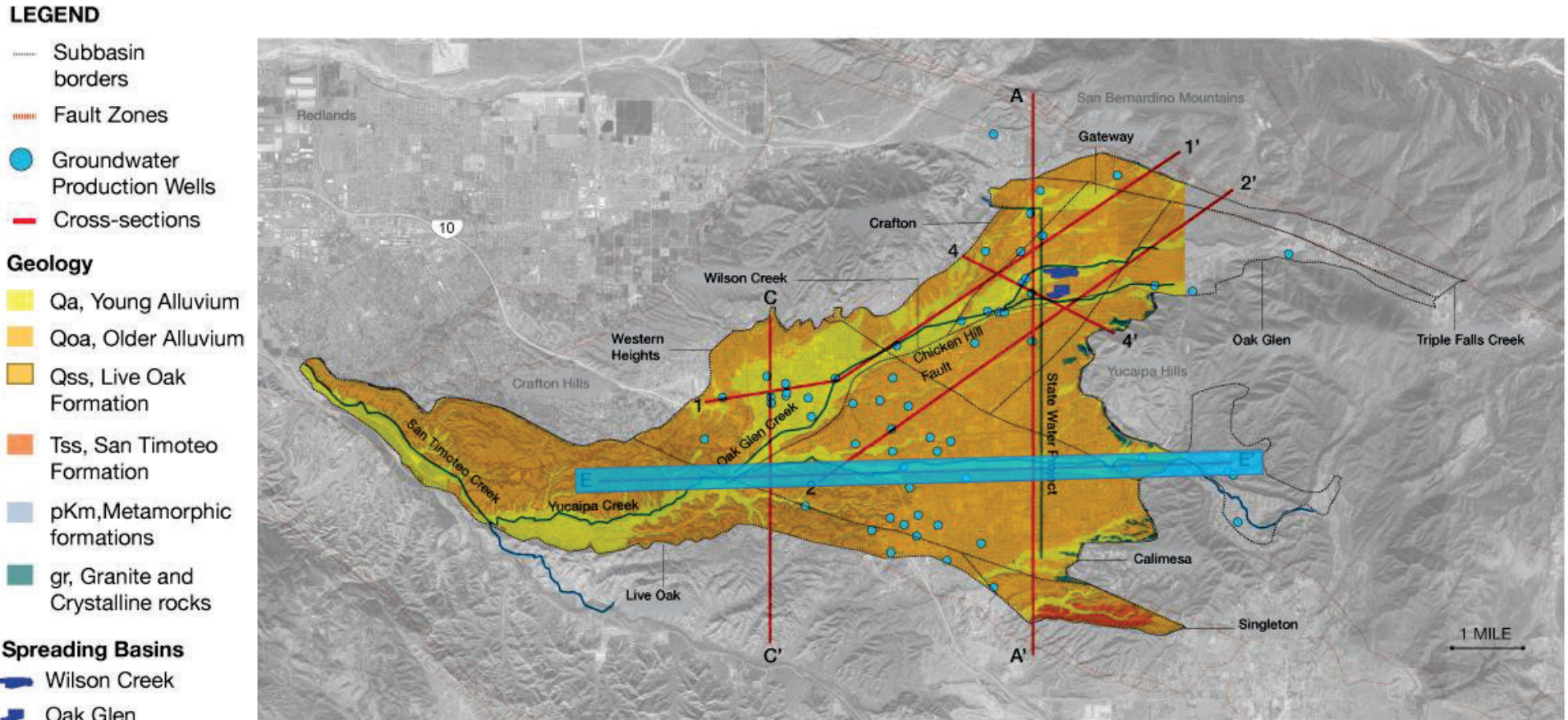
Groundwater level

- 1998
- - - 2007
- 2018

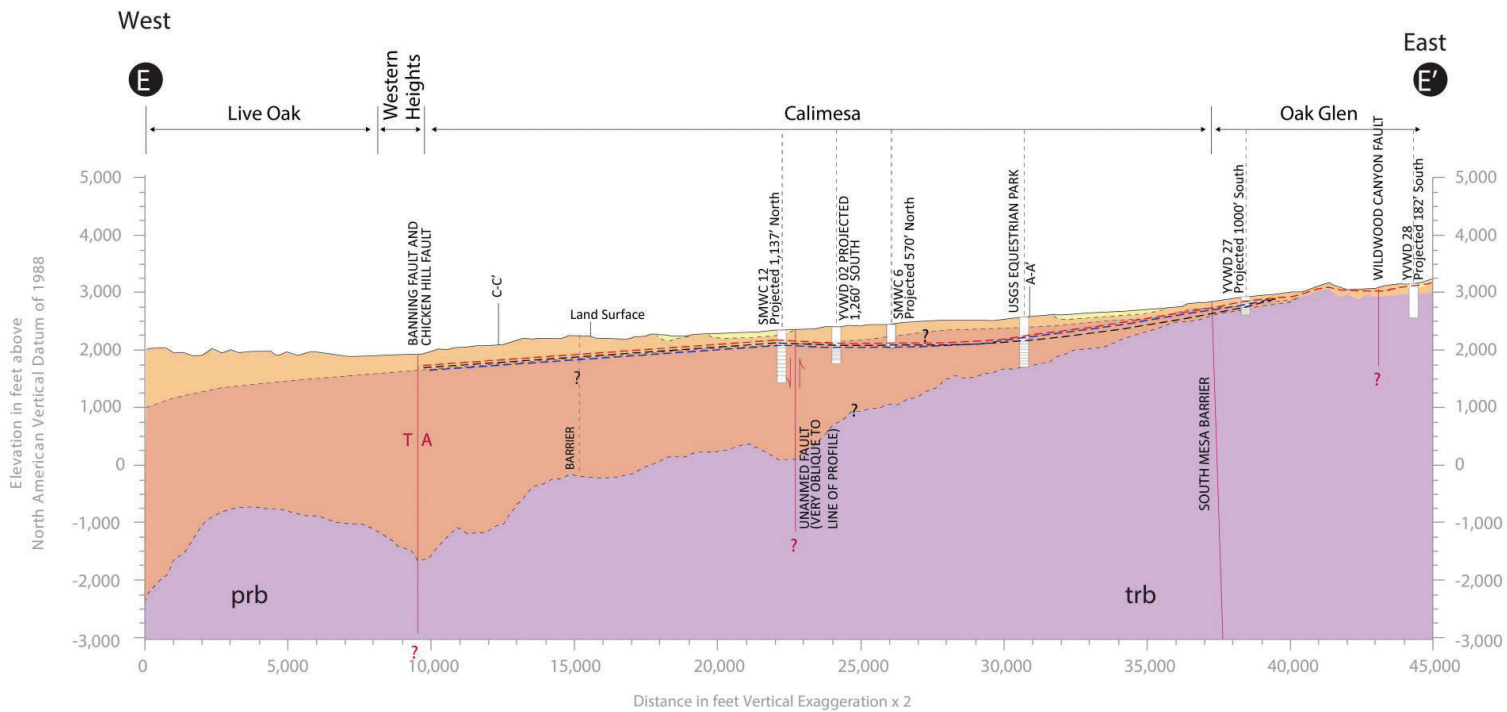
Cross-section layers

- Younger Alluvium
- Older Alluvium
- San Timoteo Formation
- Bedrock
- Layer Boundaries

Surface Water Bodies and Geological Cross-Sections



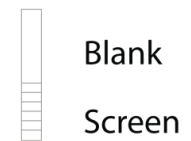
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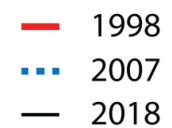
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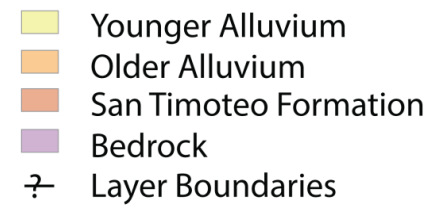
Well Casing



Groundwater level



Cross-section layers



LEGEND

--- Subbasin borders

— Fault Zones

● Groundwater Production Wells

Geology

Qa, Young Alluvium

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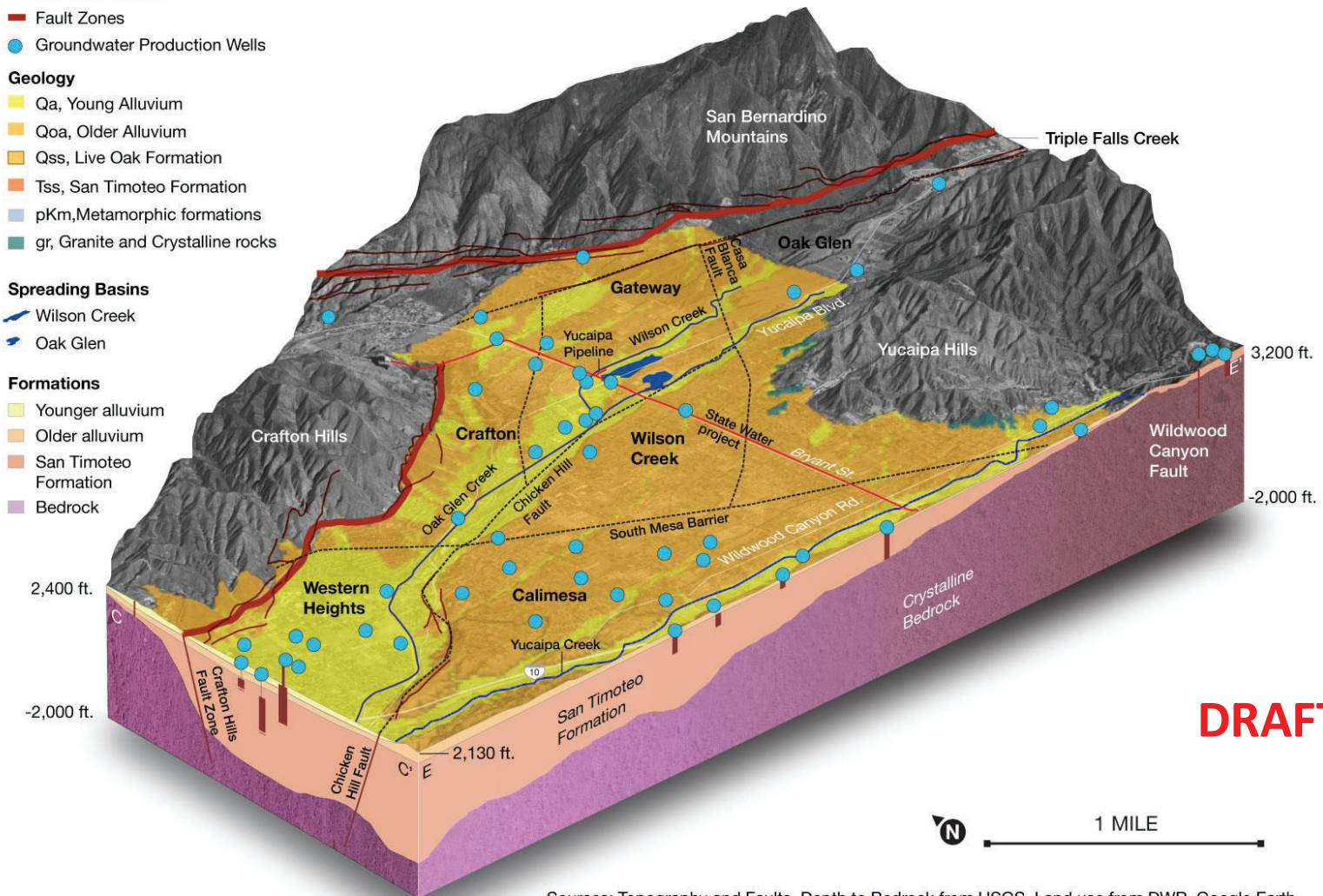
Formations

Younger alluvium

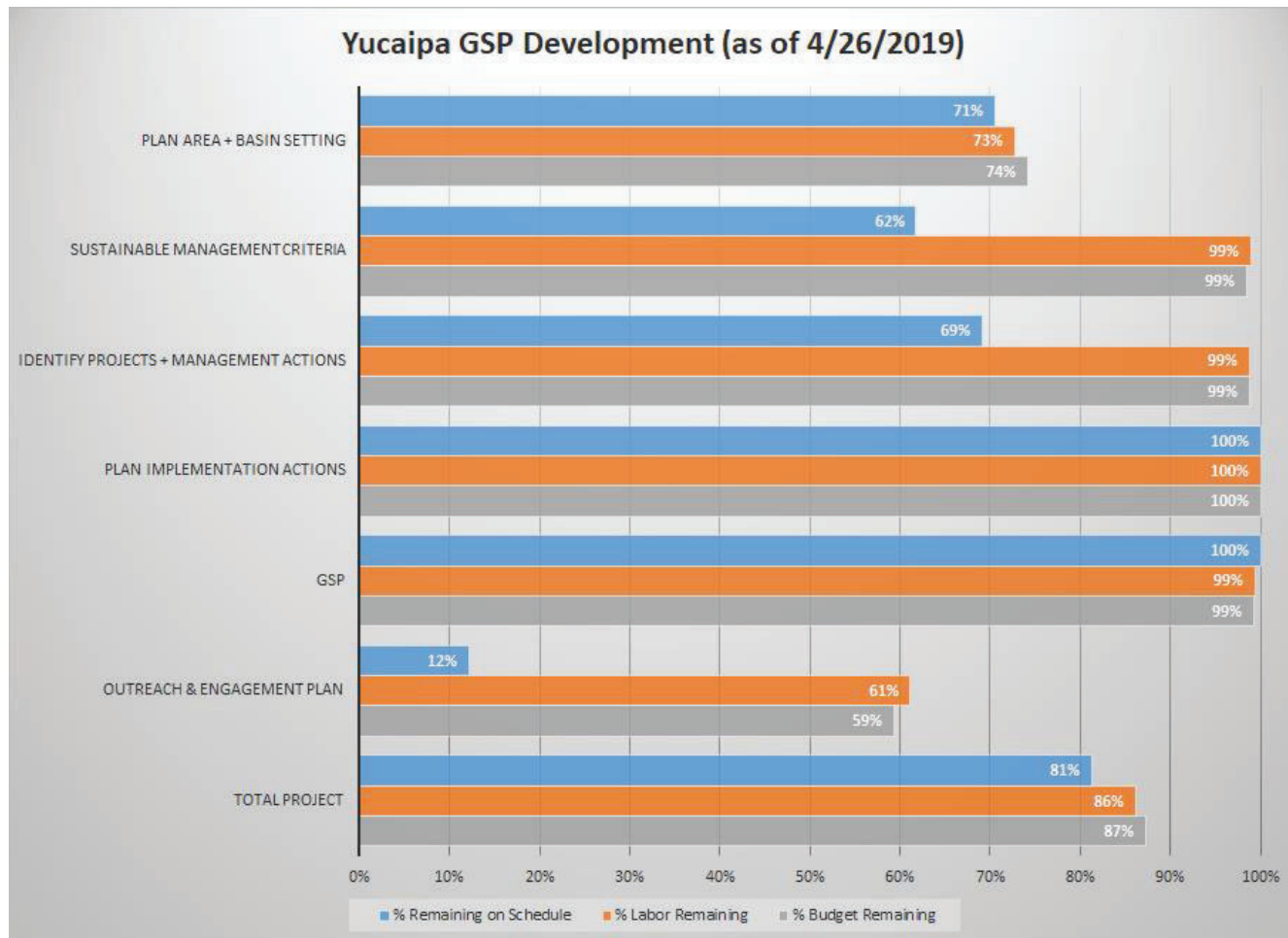
Older alluvium

San Timoteo Formation

Bedrock



Sources: Topography and Faults, Depth to Bedrock from USGS, Land use from DWR, Google Earth



Thank You

QUESTIONS?

The logo for DUDEK, featuring the word "DUDEK" in white, bold, sans-serif capital letters. The text is positioned on the right side of a horizontal decorative bar. This bar has a background of overlapping geometric shapes in various shades of blue and green.