NOTICE AND AGENDA OF REGULAR MEETING

GROUNDWATER SUSTAINABILITY AGENCY
FOR THE **WESTERN MANAGEMENT AREA**
IN THE SANTA YNEZ RIVER GROUNDWATER BASIN

WILL BE HELD ON
WEDNESDAY, FEBRUARY 22, 2023, AT **10:00 A.M.**

Remote participation only via Telephone or ZOOM

There will be no physical meeting location.

To access the meeting via telephone, please dial: 1-669-900-9128
And/or via the Web at: http://join.zoom.us

"Join a Meeting" - Meeting ID: 862 7788 4061 - Meeting Passcode: 578325

- You do NOT need to create a ZOOM account or login with email for meeting participation.
- If your device does not have a microphone or speakers, you can call in for audio with the phone number and Meeting ID listed above to listen and participate.
- In the interest of clear reception and efficient administration of the meeting, all persons participating remotely are respectfully requested to mute their line after logging or dialing-in and remain muted at all times unless speaking.

Important Notice Regarding Public Comments: For those who may not attend the meeting in person or via video/teleconference but wish to provide public comment, or for those who may wish to attend the meeting only via video/teleconference but also wish to submit written materials, **please submit any and all comments and written materials to the GSA via electronic mail at WMA@santaynezwater.org.** All submittals should indicate **"February 22, 2023 GSA Meeting"** in the subject line. Public comments and materials received by the GSA after the posting of GSA meeting packet will become part of the post-meeting materials available to the public and posted on the SGMA website.

AGENDA OF REGULAR MEETING

I. Call to Order and Roll Call

II. Consider findings under Government Code section 54953(e) to authorize continuing teleconference meetings under Resolution WMA-2021-001

III. Additions or Deletions to the Agenda

IV. Public Comment (Any member of the public may address the Committee relating to any non-agenda matter within the Committee's jurisdiction. The total time for all public comment shall not exceed fifteen minutes and the time allotted for each individual shall not exceed five minutes. No action will be taken by the Committee at this meeting on any public comment item.)

V. Receive Briefing on revision to the teleconferencing "Rules of the Brown Act" by AB2449

VI. Review and consider approval of meeting minutes of November 16, 2022

VII. Review and consider approval of Financial Statements and Warrant List

VIII. Review and Summary of Request(s) for WMA GSA Written Verification under Executive Order N-7-22 and other well permits processed by County EHS in the WMA

a. Jordan-Cramer Ranch - APN 093-020-012

b. Launchpad Lands, LLC - APN 093-070-058

IX. Receive Presentation by Curtis Lawler of Stetson Engineering "Airborne Electro-Magnetic (AEM) Survey for the Western Management Area and Central Management Area – WY 2022 Studies Summary"

X. Receive Presentation by Santa Barbara County Water Agency, "Western Management Area Overview of Historical Water Level Trends and Recent October 2022 Measurements"

XI. Receive Update on WMA Second Annual Report

XII. Next WMA GSA Special Meeting, Wednesday, March 22, 2023, at 10:00 a.m. – location TBD

XIII. WMA GSA Committee reports and requests for future agenda items

XIV. Adjournment

[This agenda was posted 72 hours prior to the scheduled regular meeting at 3669 Sagunto Street, Suite 101, Santa Ynez, California, and SantaYnezWater.org in accordance with Government Code Section 54954. In compliance with the Americans with Disabilities Act, if you need special assistance to review agenda materials or participate in this meeting, please contact the Santa Ynez River Water Conservation District at (805) 693-1156. Advanced notification as far as practicable prior to the meeting will enable the GSA to make reasonable arrangements to ensure accessibility to this meeting.]

MEETING MINUTES

Groundwater Sustainability Agency for the Western Management Area in the Santa Ynez River Groundwater Basin
November 16, 2022

A regular meeting of the Groundwater Sustainability Agency (GSA) for the Western Management Area (WMA) in the Santa Ynez River Groundwater Basin was held on Wednesday, November 16, 2022, at 10:00 a.m. As a result of the COVID-19 emergency, this meeting occurred solely via video/teleconference as recommended by Santa Barbara County Public Health, as authorized by State Assembly Bill 361, and Resolution WMA-2021-001 (passed on 10/20/2021, reaffirmed 8/31/2022).

WMA GSA Directors Present: Chris Brooks, Myron Heavin, Steve Jordan, and Acting Alternate Kristin Worthley (arrived late)

WMA GSA Directors Absent: Director and Alternate representing City of Lompoc (10:00–11:00 am)

WMA GSA Alternate Directors Present: Ron Stassi

Staff Present: Joe Barget, Bill Buelow, Marliez Diaz, and Amber Thompson

Others Present: Doug Circle, John Fio (EKI), and two unregistered phone attendees

I. Call to Order and Roll Call

WMA GSA Chair Chris Brooks called the meeting to order at 10:10 a.m. and asked Mr. Bill Buelow to call roll. A quorum was met with three Directors in attendance. In addition, one GSA Alternate Directors was present. The Director and Alternate representing the City of Lompoc were absent. The Acting Alternate Director representing the City of Lompoc arrived online during Agenda Item VIII.

II. Consider findings under Government Code section 54953(e)(3) to authorize continuing teleconference meetings under Resolution WMA-2021-001

Mr. Buelow explained that the reasonings for State Assembly Bill 361 and adoption of Resolution WMA-2021-001, passed on October 20, 2021, and reaffirmed on August 31, 2022, which authorized teleconference public meetings were still in effect. There was no discussion.

WMA GSA Director Steve Jordan made a MOTION to authorize continuing teleconference meetings under Resolution WMA-2021-001. GSA Chair Chris Brooks seconded the motion and it passed 3-0-1 by roll call vote, with both Director and Alternate from the City of Lompoc being absent.

III. Additions or Deletions to the Agenda

No additions or deletions were made.

IV. Public Comment

Mr. Buelow announced he received one public comment letter from the Santa Ynez Water Group which is referenced as Agenda Item XI. a). Mr. Doug Circle made a brief additional comment regarding the letter and was available to answer any questions. There was no discussion and no additional public comments.

V. Review and consider approval of meeting minutes of August 31, 2022

The minutes of the WMA GSA Committee meeting on August 31, 2022 were presented for GSA Committee approval. There was no discussion.

WMA GSA Director Steve Jordan made a MOTION to approve the minutes of August 31, 2022, as presented. GSA Director Myron Heavin seconded the motion and it passed 3-0-1 by roll call vote, with both Director and Alternate from the City of Lompoc being absent.

VI. Review and consider approval of Financial Statements and Warrant List

The WMA GSA Committee reviewed the financial reports of FY 2022-23 Periods 1 through 3 (through September 30, 2022) and the Warrant Lists for July, August, and September 2022. There was no discussion nor public comment.

WMA GSA Director Myron Heavin made a MOTION to approve the Warrant Lists for July, August, and September 2022 (Check Nos. 2004-2008) totaling $32,737.08, as presented. GSA Director Steve Jordan seconded the motion and it passed 3-0-1 by roll call vote, with both Director and Alternate from the City of Lompoc being absent.

Mr. Buelow reviewed the October 31, 2022 letter received from Department of Water Resources (DWR) documenting the "Grant Closure – Santa Ynez River Water Conservation District, Santa Ynez River Valley Basin – GSPs Planning and Preparation, Agreement 4600012741, Grant Closure". The letter acknowledged that DWR released the full retention amount of $129,599.99 and confirmed that contractual obligations for the 2017 Proposition 1 Sustainable Groundwater Planning Grant Program agreement were fulfilled. Mr. Buelow confirmed that approximately $48,000 of the retention funds should be deposited to the WMA GSA bank account once the funds arrive approximately 6-8 weeks after the letter date. He thanked WMA member agencies staff for efforts in fulfilling grant requirements. He announced that member agency staff is currently working on another grant application to DWR for implementation efforts. There was no discussion or public comment.

VII. Update on WMA GSA Written Verification of New Well Permits under Executive Order N-7-22

Mr. Buelow provided an update and briefly explained the process for a written verification. He reported that the WMA GSA has not received any requests for written

verifications while the CMA and EMA GSAs have received a combined total of five requests. He reminded everyone that the WMA GSA Committee previously decided to change the schedule of regular meetings from quarterly to monthly, meeting on the fourth Wednesday of each month and instructed staff to cancel meetings at least one week prior if there are no written verifications to review. Discussion followed.

VIII. Receive update on SGMA Implementation Grant Funding Opportunity for the Basin

WMA GSA Acting Alternate Director Kristin Worthley, representing the City of Lompoc, arrived during Agenda Item VIII.

Mr. Buelow reported that basin-wide member agencies staff have been meeting to develop an application for the DWR Proposition 68, Round 2 Grant funding opportunity on behalf of the Basin. He especially thanked Marliez Diaz (Santa Barbara County Water Agency), John Fio and Kristen Worthley (City of Lompoc), and Paeter Garcia (SYRWCD, ID No. 1) for their collaboration. The grant funding opportunity ranges from $1 million to $20 million per basin with a total of $200 million available to cover eligible costs incurred from October 4, 2022 through April 30, 2026 without a cost share requirement.

The basin-wide member agencies staff began the process to develop a Projects and Management Actions priorities list and held a joint CMA and WMA CAGs meeting to determine the top priorities. The top four priority projects to include for the grant application were determined to be:

1. Basin-wide Metering Program
2. Rate Study for Basin
3. 5-year Update to GSP (required by DWR), Annual Reporting, and Consultant Responses to DWR GSP Review
4. Data Gap Filling, with each GSA determining the specific project for the GSA.

Mr. John Fio (EKI and consultant for City of Lompoc) reported on additional projects also discussed and possibly being considered including a conservation strategic plan. Discussion followed.

WMA GSA Director Steve Jordan expressed concern that none of the top four priority projects for the grant application have ability to produce additional water for basin. He urged consideration of a wastewater reclamation project.

Discussion followed regarding stormwater capture/recharge project, water recycling options and Santa Ynez River water flow capture. Mr. Fio reported that the City of Lompoc has applied for funding available from the State Water Resources Control Board for stormwater capture/recharge project specifically for disadvantaged communities which could in turn benefit the Basin. WMA GSA Director Myron Heavin suggested a location which Mesa Oaks community drains into to consider for stormwater capture. WMA GSA Director Chris Brooks suggested consideration of capturing some water when Santa Ynez

DRAFT

River flows again by pumping some of the into the Mission Hills CSD ponds located near the River.

IX. Update from WMA CAG

Mr. Buelow reported that the CMA CAG and WMA CAG held a joint meeting on October 13, 2022 to discuss Round 2, Proposition 68 Grant funding opportunities for GSP Implementation. He reviewed a memorandum prepared and submitted by WMA CAG member Karen Kistler. There was no discussion.

X. Consider Resolution WMA-2022-003 Approving the Santa Ynez River Water Conservation District to Submit a Proposition 68 Grant Application for Implementation of SGMA on Behalf of the Santa Ynez River Valley Groundwater Basin

Mr. Buelow read the title of Resolution WMA 2022-003 and amended to correct a typo. There was no discussion. WMA GSA Director Steve Jordan made a MOTION to waive the reading of and approve RESOLUTION WMA 2022-003 APPROVING THE SANTA YNEZ RIVER WATER CONSERVATION DISTRICT ON BEHALF OF THE WESTERN MANAGEMENT AREA IN THE SANTA YNEZ RIVER VALLEY GROUNDWATER BASIN TO MAKE AN APPLICATION TO THE CALIFORNIA DEPARTMENT OF WATER RESOURCES TO OBTAIN A GRANT UNDER THE 2021 SUSTAINABLE GROUNDWATER MANAGEMENT GRANT PROGRAM SGMA IMPLEMENTATION ROUND 2 GRANT PURSUANT TO THE CALIFORNIA DROUGHT, WATER, PARKS, CLIMATE, COASTAL PROTECTION, AND OUTDOOR ACCESS FOR ALL ACT OF 2018 (PROPOSITION 68) AND THE CALIFORNIA BUDGET ACT OF 2021, AND TO ENTER INTO AN AGREEMENT TO RECEIVE A GRANT FOR THE PROJECT: SGMA IMPLEMENTATION IN THE SANTA YNEZ RIVER BASIN, as amended. GSA Director Myron Heavin seconded the motion. There were no public comments and no discussion. The motion passed unanimously by roll call vote.

XI. Update on Governance for WMA

Mr. Buelow provided an update on JPA planning and collaboration between member agencies and attorneys and announced more meetings are planned. Discussion followed. There were no public comments.

a. Received Correspondence from Santa Ynez Water Group dated October 24, 2022

The letter was presented during Agenda Item IV.

XII. Next Regular WMA GSA Meeting, Wednesday, December 14, 2022, at 10:00 a.m.

Mr. Buelow announced the next regular WMA GSA meeting will be Wednesday, December 14, 2022 at 10:00 a.m.

XIII. WMA GSA Committee requests and comments

WMA GSA Director Steve Jordan emphasized the need for more water and requested staff consider additional methods or projects to get more water.

WMA GSA Director Myron Heavin suggested and increased social media presence for stakeholder outreach and publicity. He expressed concern and reiterated the need for a project to save stormwater. He suggested different policies should be in place in the Lompoc area regarding water softeners and chlorine. He expressed concern on the water availability from Lake Cachuma if rainfall continues to be low.

WMA GSA Acting Alternate Director Kristin Worthley suggested that outreach and communications focus in the WMA needs to increase.

The WMA GSA Directors requested that Curtis Lawler (Stetson Engineers) briefly present the results of the Arial Electro-Magnetic survey conducted in the WMA.

XIV. Adjournment

GSA Director Chris Brooks adjourned the meeting at 11:20 a.m.

Chris Brooks, Chairman

William J. Buelow, Secretary

DRAFT

WMA GSA
Balance Sheet
As of December 31, 2022

	Dec 31, 22
ASSETS	
Current Assets	
Checking/Savings	
1150 · Five Star Bank Checking #5978	54,172.88
Total Checking/Savings	54,172.88
Total Current Assets	54,172.88
TOTAL ASSETS	**54,172.88**
LIABILITIES & EQUITY	
Liabilities	
Current Liabilities	
Other Current Liabilities	
2300 · Deposits - Well Verification	2,400.00
Total Other Current Liabilities	2,400.00
Total Current Liabilities	2,400.00
Total Liabilities	2,400.00
Equity	
3000 · Retained Earnings	27,450.40
Net Income	24,322.48
Total Equity	51,772.88
TOTAL LIABILITIES & EQUITY	**54,172.88**

WMA GSA
Profit & Loss YTD Comparison
October through December 2022

	Oct - Dec 22	Jul - Dec 22
Income		
4000 · Oper Assess fr Member Agencies	9,953.08	26,278.52
4500 · Grant Revenue	48,133.33	48,133.33
4600 · Interest Income	12.97	21.16
Total Income	58,099.38	74,433.01
Expense		
5320 · Office Expense (incl postage)	24.70	24.70
5330 · Outside Staff Support	300.00	600.00
5350 · Public Relations	0.00	163.20
6280 · GSP - AEM Survey	16,071.25	45,518.38
6400 · Annual Report	0.00	2,826.75
6500 · GSP Implementation	977.50	977.50
Total Expense	17,373.45	50,110.53
Net Income	**40,725.93**	**24,322.48**

GROUNDWATER SUSTAINABILTY AGENCY FOR THE

WESTERN MANAGEMENT AREA (WMA)

IN THE SANTA YNEZ RIVER VALLEY GROUNDWATER BASIN

OCTOBER 2022 WARRANT LIST FOR COMMITTEE APPROVAL

NUMBER	DATE	PAYEE	DESCRIPTION		AMOUNT
2009	10/13/22	Stetson Engineers	August 2022 Engineering Service (AEM Survey Work)	$	16,071.25
			MONTH TOTAL	**$**	**16,071.25**

NOVEMBER 2022 WARRANT LIST FOR COMMITTEE APPROVAL

NUMBER	DATE	PAYEE	DESCRIPTION		AMOUNT
			NONE		
			MONTH TOTAL	**$**	**-**

DECEMBER 2022 WARRANT LIST FOR COMMITTEE APPROVAL

NUMBER	DATE	PAYEE	DESCRIPTION		AMOUNT
1000	12/14/22	Santa Ynez River Water Conservation District	Reimburse costs for October 2022 Stetson Engineers SGMA Planning Program including WMA PMA online site for WMA staff and 40 postage stamps paid by SYRWCD	$	1,002.20
1001	12/14/22	Valley Bookkeeping	2022 3rd Quarter Bookkeeping (July, August, September 2022)	$	300.00
			MONTH TOTAL	**$**	**1,302.20**

TOTAL CHECKS THIS QUARTER: $ 17,373.45

WMA GSA - Summary of Well Verifications and Other Wells

Date Received	APN	Address	Well Owner Name	Proj. Coordinator Name	Well Type	Status	Note
11/28/2022	093-020-012	2640 N. Union Ave., Lompoc, CA 93438	Jordan-Cramer Ranch c/o Brent Reiswig	Sam Taylor	New Well	Pending	341 afy
12/19/2023	093-070-058	90 Floredale Ave, Lompoc, CA 93436	Launchpad Lands, LLC c/o Louis Ivanovich	Angel Renteria	Replacement Well	Pending	3-5 afy

as of 2/17/2023

Draft Review of New Well Application in the Santa Ynez River Valley Groundwater Basin, Western Management Area (WMA) APN: 093-020-012 (WP 0005360) Jordan-Cramer Ranch

To: Santa Ynez River Valley WMA GSA Parties

From: Tim Nicely, PG, CHg and Andy Lapostol, GSI Water Solutions, Inc.

Date: February 17, 2023

This memorandum presents our review of an application to install a well within the Western Management Area (WMA). Our review was conducted on behalf of the Santa Ynez River Valley Groundwater Basin Western Management Area Groundwater Sustainability Agency (GSA). Under Paragraph 9 of Governor Newsom's Executive Order N-7-22 and the County Board of Supervisors Urgency Ordinance No. 5158 dated May 24, 2022, the County of Santa Barbara Department of Environmental Health Services shall not approve a permit for a new groundwater well or for alteration of an existing well in a medium or high-priority basin subject to the Sustainable Groundwater Management Act (SGMA) without first obtaining written verification from the GSA that groundwater extraction by the proposed well[1]

1. would not be "inconsistent with any sustainable groundwater management program" established by the Groundwater Sustainability Plan (Plan) adopted by that GSA, and
2. would not decrease the likelihood of achieving a sustainability goal for the basin covered by the Plan.

Paragraph 9 of Executive Order N-7-22 does not apply to permits for wells that will provide less than two acre-feet per year of groundwater for individual domestic users, or that will exclusively provide groundwater to public water supply systems as defined in section 116275 of the Health and Safety Code.

The application being reviewed is for the installation of a new 16-inch diameter irrigation supply well completed to a depth of 200 feet. The anticipated water production reported by the applicant is 341 acre-feet per year (AFY). This production exceeds the 2 AFY definition of an exempt well.

[1] New wells are those resulting in new or additional groundwater production from the Basin, or those resulting in new or additional production capacity. Replacement wells are those not resulting in new or additional groundwater production or production capacity in the Basin.

Summary of Findings

The proposed new well has the following properties:

- Well location:
    - The proposed well is located on Assessor's Parcel Number 093-020-012, at 2640 N Union Avenue, west of Lompoc, California, which is within the Lompoc Plain Subarea of the Western Management Area.
    - The Lompoc Plain Subarea is composed of the Santa Ynez River floodplain that surrounds and includes the City of Lompoc and surrounding agricultural land. Groundwater within the Lompoc Plain is present within the two principal aquifers of the younger alluvium (upper aquifer) and Careaga Sand (lower aquifer).
    - The parcel is located within Zone B of the Santa Ynez River Water Conservation District.
- Proposed well construction information:
    - The proposed well depth is 200 feet, with perforations from 100 to 200 feet below ground surface.
    - Based on the depth of the proposed well, water will be produced from the Upper Aquifer (a principal aquifer of the WMA).
    - The well will be used for irrigation purposes. The planned pumping rate of 1,200 gallons per minute for 5.25 hours per day, during 6 days per week during 50 weeks per year equates to approximately 341 to 348 AFY.
- Assess groundwater conditions:
    - The well is completed in the Upper Aquifer, which is a principal aquifer within the GSA.
    - The nearest representative groundwater level well (as defined in the Plan) within the WMA completed in the Upper Aquifer is located approximately 1.4 miles northwest of the proposed well. According to the First Annual Report for the WMA, "two of the three representative monitoring wells [including the well located nearest well to the subject site] were above the goal of groundwater elevations equal to five feet below the channel thalweg of the Santa Ynez River." The Plan for WMA summarizes the current state of the groundwater conditions, which "are sustainable with no current undesirable results."
    - Based on the cumulative departure from mean annual precipitation[2], climatic conditions in the vicinity of the proposed well site have been predominantly dry since 2012.
- Would the well increase production within the WMA?
    - The proposed new well would be completed within a principal aquifer managed by the WMA GSA. The applicant represented the purpose of the new well is to move the location of current water production from the existing location to the proposed location due to degraded water quality at the existing location. The applicant also represented the existing wells will be idled and that status reported to the Santa Ynez River Water Conservation District. Since the existing wells will be idled, the new well would not increase production from a principal aquifer

[2] Precipitation measured at the Santa Ynez Fire Station #32 (Santa Barbara County Station No. 218 gauge).

within the WMA and would not cause an exceedance of minimum thresholds or cause undesirable results measured at representative wells as defined in the Plan.

- The proposed new well would not contribute to significant and unreasonable conditions leading to undesirable results related to the sustainability indicators:
  - Chronic water level decline.
  - Reduction of groundwater in storage
  - Degradation of water quality
  - Subsidence
  - Depletion of interconnected surface water and impacts to GDEs

Summary

Based upon the planned production of this new well, the proposed well would NOT be "inconsistent with any sustainable groundwater management program" established by the GSA and would NOT decrease the likelihood of achieving a sustainability goal for the basin. Notably, this well remains subject to regulation by the GSA in accordance with SGMA and the WMA's Plan. It may be necessary to limit production from this well in the future if the GSA finds that undesirable results as defined in the Plan are occurring in the basin.

In our opinion, the GSA should provide a written verification to the County of Santa Barbara Department of Environmental Health for this application.

Indemnification and Limitations of Liability

GSI Water Solutions does not warrant or guarantee that the new or replacement well will produce the expected amount of water nor that the GSA will not require that the extraction from the well be reduced in the future in accordance with its authority to manage the WMA within the sustainability goal.

GSI Water Solutions is not responsible for or otherwise liable for any costs, investments, lost revenue, or payments related to any groundwater well permitted or not permitted by the County, including well drilling costs, pumping fees, extraction limits, costs related to well failure, well deepening, increased maintenance, replacement, or operational costs.

The GSA's issuance of a written verification and the County's issuance of a well permit to Applicant does not guarantee the extraction of any specific amount of water now or in the future or any defined water level or water quality.

DRAFT Review of Well Application in the Santa Ynez River Valley Groundwater Basin, Western Management Area (WMA) APN: 093-070-058 (WP 0005467) Launchpad Lands, LLC

To: Santa Ynez River Valley WMA GSA Parties

From: Tim Nicely, PG, CHg

Date: February 17, 2023

This memorandum presents our review of an application to install a replacement well within the Western Management Area (WMA). Our review was conducted on behalf of the Santa Ynez River Valley Groundwater Basin Western Management Area Groundwater Sustainability Agency (GSA). Under Paragraph 9 of Governor Newsom's Executive Order N-7-22 and the County Board of Supervisors Urgency Ordinance No. 5158 dated May 24, 2022, EHS shall not approve a permit for a new groundwater well or for alteration of an existing well in a medium or high-priority basin subject to the Sustainable Groundwater Management Act (SGMA) without first obtaining written verification from the GSA that groundwater extraction by the proposed well:

1. would not be inconsistent with any sustainable groundwater management program established by the Groundwater Sustainability Plan (Plan) adopted by the GSA, and
2. would not decrease the likelihood of achieving a sustainability goal for the basin covered by the Plan.

Paragraph 9 of Executive Order N-7-22 does not apply to permits for wells that will provide less than two acre-feet per year of groundwater for individual domestic users, or that will exclusively provide groundwater to public water supply systems as defined in section 116275 of the Health and Safety Code. The application being reviewed is for the proposed replacement[1] of a 6-inch diameter domestic supply well completed to a depth of 170 feet, which has gone dry. The replacement well is also planned for domestic use with a diameter of 6 inches and total depth of 200 feet. The anticipated water production reported by the applicant is 3 to 5 acre-feet per year (AFY). This production exceeds the 2 AFY definition of an exempt well.

Summary of Findings

The proposed well has the following properties:

- Well location:
    - The proposed well is located on Assessor's Parcel Number 099-240-058, at 901 Floradale Avenue in Lompoc, California, which is located within the Lompoc Plain area of the WMA.

[1] Santa Barbara County Urgency Ordinance No. 5158 defines a "Replacement Well" as follows: "[A] water well to be constructed of equal or less production capacity as an existing well as originally permitted or constructed, when said existing well shall be destroyed under permit within 90 days of completion of the replacement well. This definition does not apply to individual domestic or public water supply wells." (Ordinance No. 5158, Sec. 34A-23(8).)

- The parcel is located within the Santa Ynez River Water Conservation District, and covers 38 acres, zoned AG-II.

- Proposed well construction and use information:
  - The proposed well will be completed to a similar depth of 200 feet than the original well depth 170 feet. The completion of this well will therefore be completed in the same Upper Aquifer, which is a principal aquifer within the WMA.
  - The well will be used for domestic purposes on a 38-acre parcel. The planned pumping rate is 20 gallons per minute for 4 to 8 hours per day, which equates to 5 to 10 AFY. This calculated production amount is greater than the estimated use indicated on the well permit application of only 3 to 5 AFY.
  - The proposed well depth (200 feet) is similar to the depth than the original well (170 feet), which according to the County Urgency order must be destroyed for the new well to qualify as a replacement well.
- Based on the geologic setting at the site, the well would be completed within the same principal aquifer as the well it replaces (Upper Aquifer), which is managed by the GSA.
- Assess groundwater and related conditions:
  - The nearest representative monitoring well for the WMA is well SYWATER 27, which is completed to a similar depth, which is located approximately 2,200 feet north of the proposed well.
  - Groundwater conditions within the WMA are classified in the WMA's first annual report as "sustainable with no current undesirable results (defined as significant and unreasonable impacts to sustainability indicators)."
  - Based on the cumulative departure from mean annual precipitation[1], climatic conditions in the vicinity of the proposed well site and the WMA have been dry since 2012, including the recently-ended water year 2021-2022.
- Would the well increase production within the WMA?
  - The proposed well is a similar depth and construction as the original well and will provide water to the same parcel. It is therefore determined that the well would not likely significantly increase production relative to the original well.
  - For these reasons, the proposed replacement well would not be inconsistent with any sustainable groundwater management program established by the Plan adopted by the WMA GSA because production from the well would not cause an exceedance of minimum thresholds and cause undesirable results measured at representative wells as defined in the Plan relative to the original well.
  - In our opinion, the replacement well would not likely cause significant and unreasonable conditions leading to undesirable results for the Plan's sustainability indicators:
    - Chronic water level decline.
    - Reduction of groundwater in storage

[1] Precipitation measured at the Santa Ynez Fire Station #32 (Santa Barbara County Station No. 218 gauge).

        - Degradation of water quality
        - Subsidence
        - Depletion of interconnected surface water and impacts to GDEs
- While the production capacity of the original well is not known, the replacement well is considered a "like for like" replacement with regards to production volume relative to the original well based on the following:
    - The area irrigated is the same parcel, and
    - The diameter of the original and replacement well are the same (6-inches).
- The proposed production of 5 AFY is less than the 5 to 10 AFY that GSI calculated using the flow rate and duration stated in the well permit application. We suggest checking to see if there are records on file at the Santa Ynez River Water Conservation District for past/current water use.

Summary

Based upon planned production from this proposed well, the proposed well would NOT be "inconsistent with any sustainable groundwater management program" established by the GSA and would NOT decrease the likelihood of achieving a sustainability goal for the basin. Notably, this well remains subject to regulation by the GSA in accordance with SGMA and the WMA Plan. It may be necessary to limit production from this well in the future if the GSA finds that undesirable results as defined in the Plan are occurring in the basin.

In our opinion, the GSA should provide a written verification to the County of Santa Barbara Department of Environmental Health for this application.

Indemnification and Limitations of Liability

GSI does not warrant or guarantee that the replacement well will produce the expected amount of water nor that the GSA will not require that extraction from the well be reduced in the future in accordance with its authority to manage the WMA within the sustainability goal presented in WMA's Plan.

GSI is not responsible for or otherwise liable for any costs, investments, lost revenue, or payments related to any groundwater well permitted or not permitted by the County, including well drilling costs, pumping fees, extraction limits, costs related to well failure, well deepening, increased maintenance, replacement, or operational costs.

The GSA's issuance of a written verification and the County's issuance of a well permit to Applicant does not guarantee the extraction of any specific amount of water now or in the future or any defined water level or water quality.

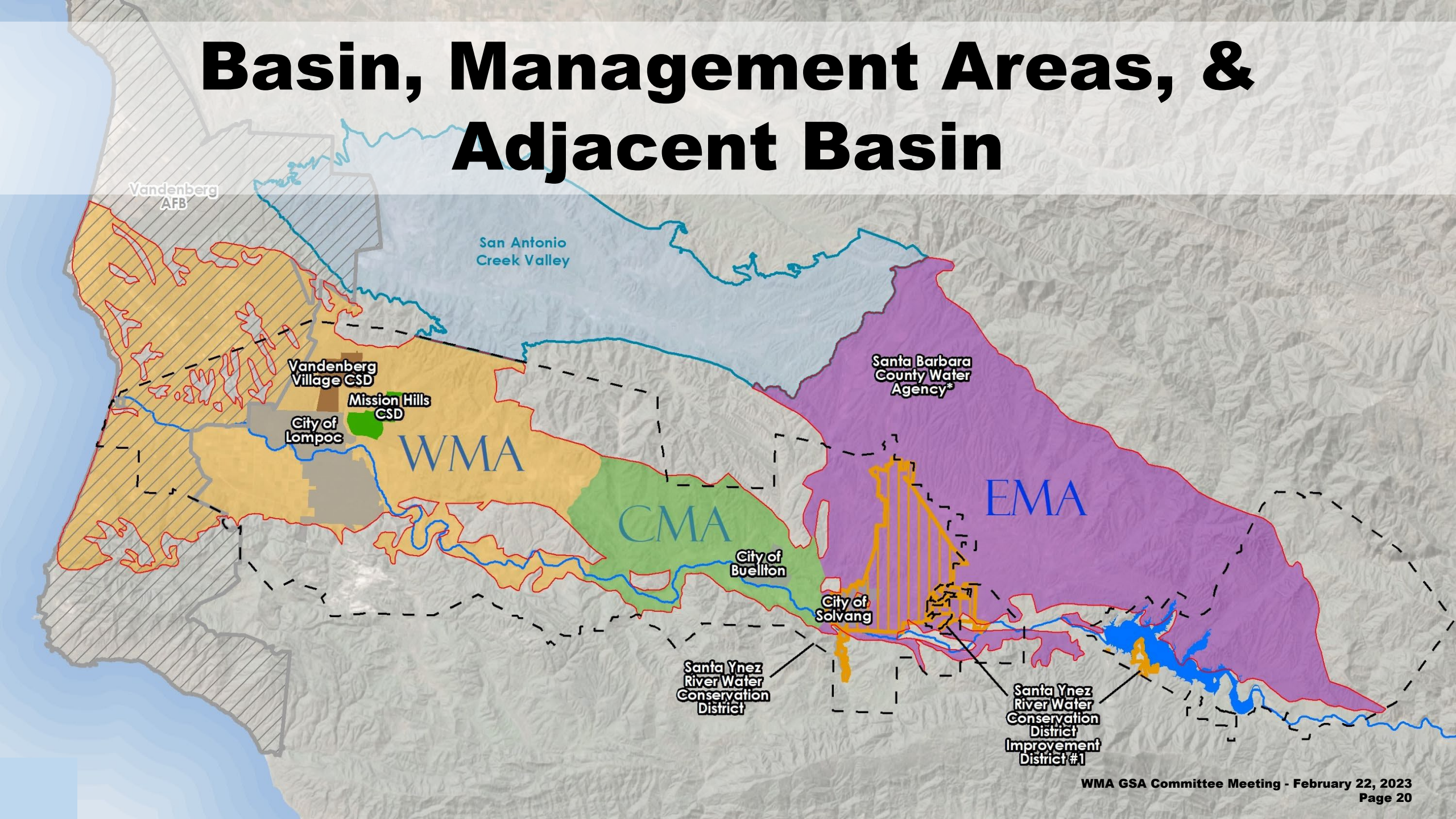
Airborne ElectroMagnetic (AEM) Survey For Western Management Area and Central Management Area

WY 2022 Studies Summary

Steps Taken

1. Geophysical data collected in WY 2021
2. Three WY2022 Studies and Reports Produced
    1. Ramboll – Processes Digital Data and Performs Geological Interpretation (May 2022)
    2. Geosyntec – Updates to Hydrogeologic Conceptual Model/ Leapfrog Geologic Model (August 2022)
    3. Stetson – Updates to Modflow Model (August 2022)

Basin, Management Areas, & Adjacent Basin



Flight Paths (Ramboll, 2022)

Intended for
Santa Ynez River Water Conservation District
Document type
Report

Date
May 2022

SANTA YNEZ WESTERN AND CENTRAL MANAGEMENT AREA
AEM SURVEY

RAMBOLL Bright ideas. Sustainable change.

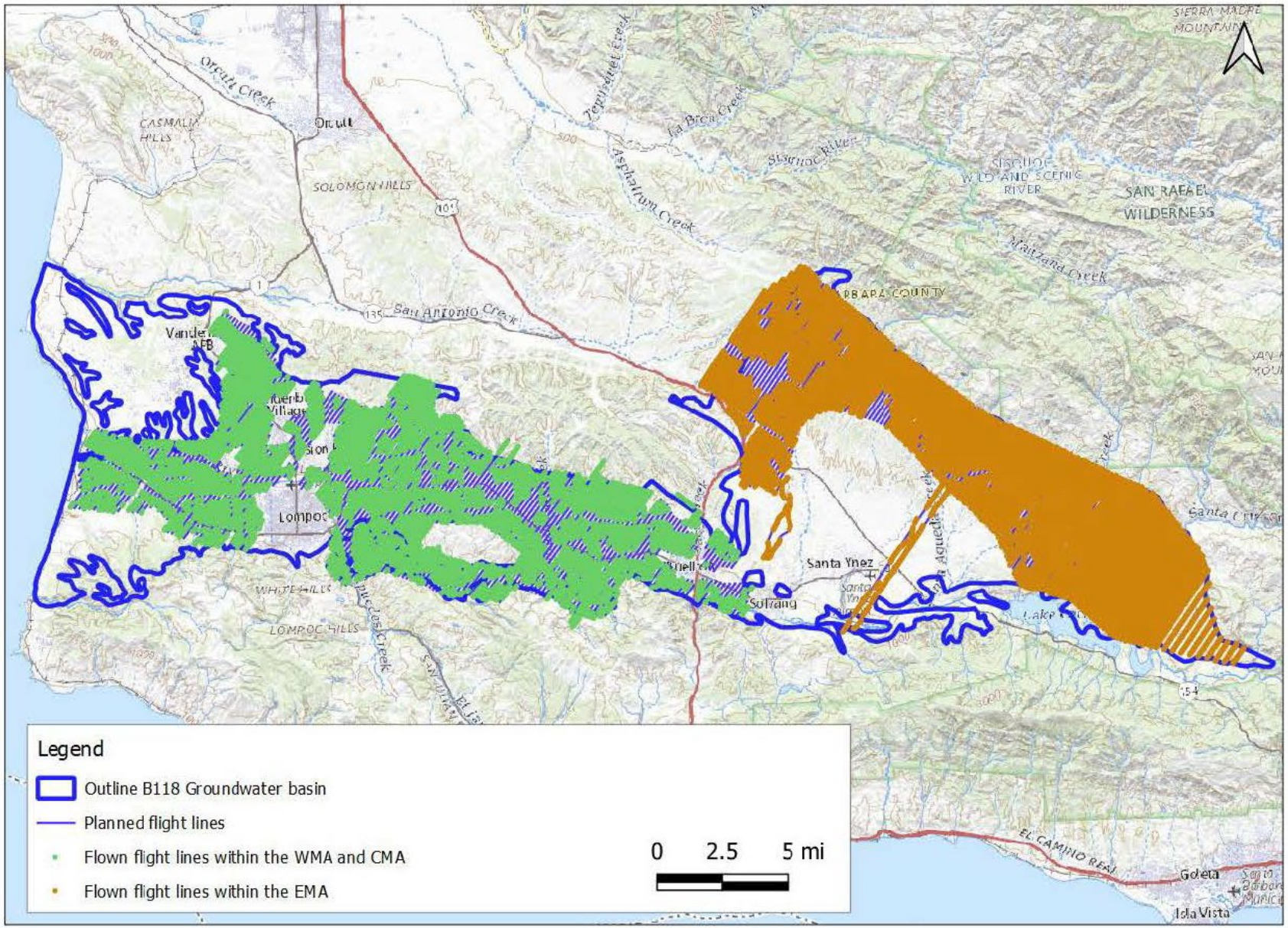


Figure 1 Santa Ynez Groundwater basin, with CA Bulletin 118 subbasins outlined in blue. Planned flight lines shown as blue lines. Flown flight lines after editing shown as green lines in the WMA and CMA and as orange lines in the EMA.

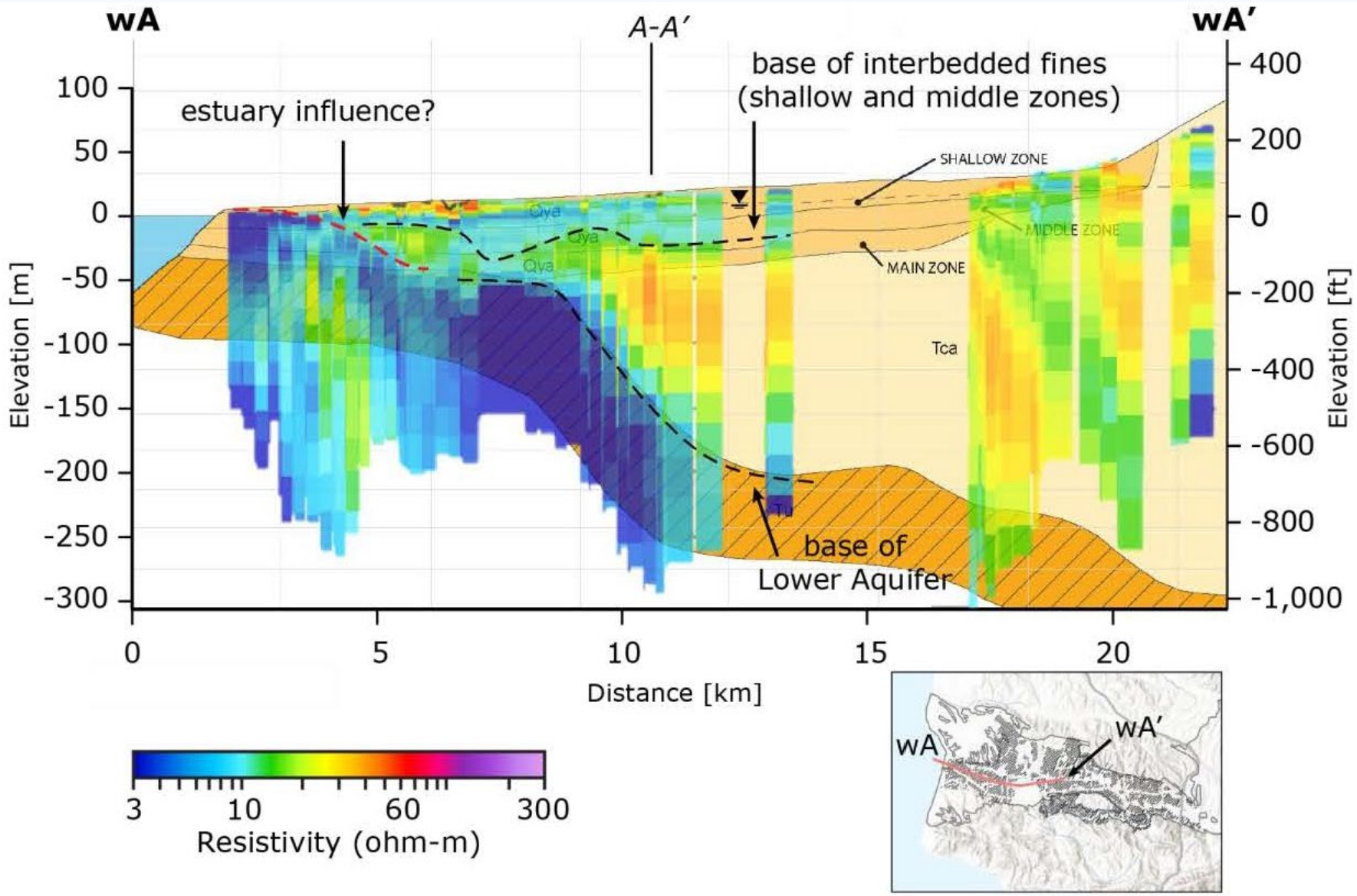


Figure 11 Cross section of resistivity estimates from AEM data (30% transparency), along transect wA-wA′, which corresponds to transect A-A′ in the WMA GSP. In the background is shown Figure 2a.2-5a from the GSP. The large lateral gap in resistivity estimates corresponds to the city of Lompoc.

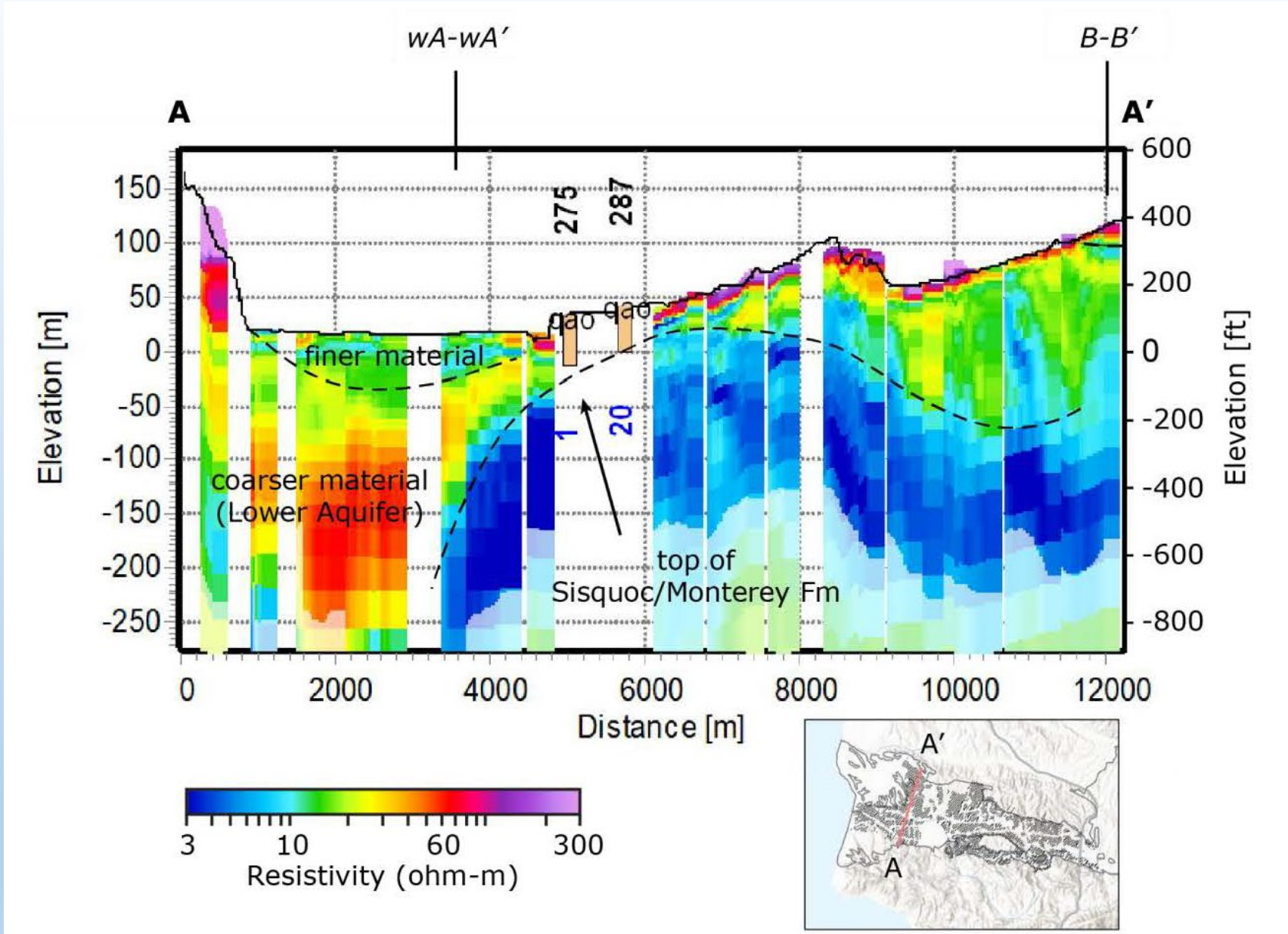


Figure 12 Cross section of resistivity estimates from AEM data along transect A-A′.

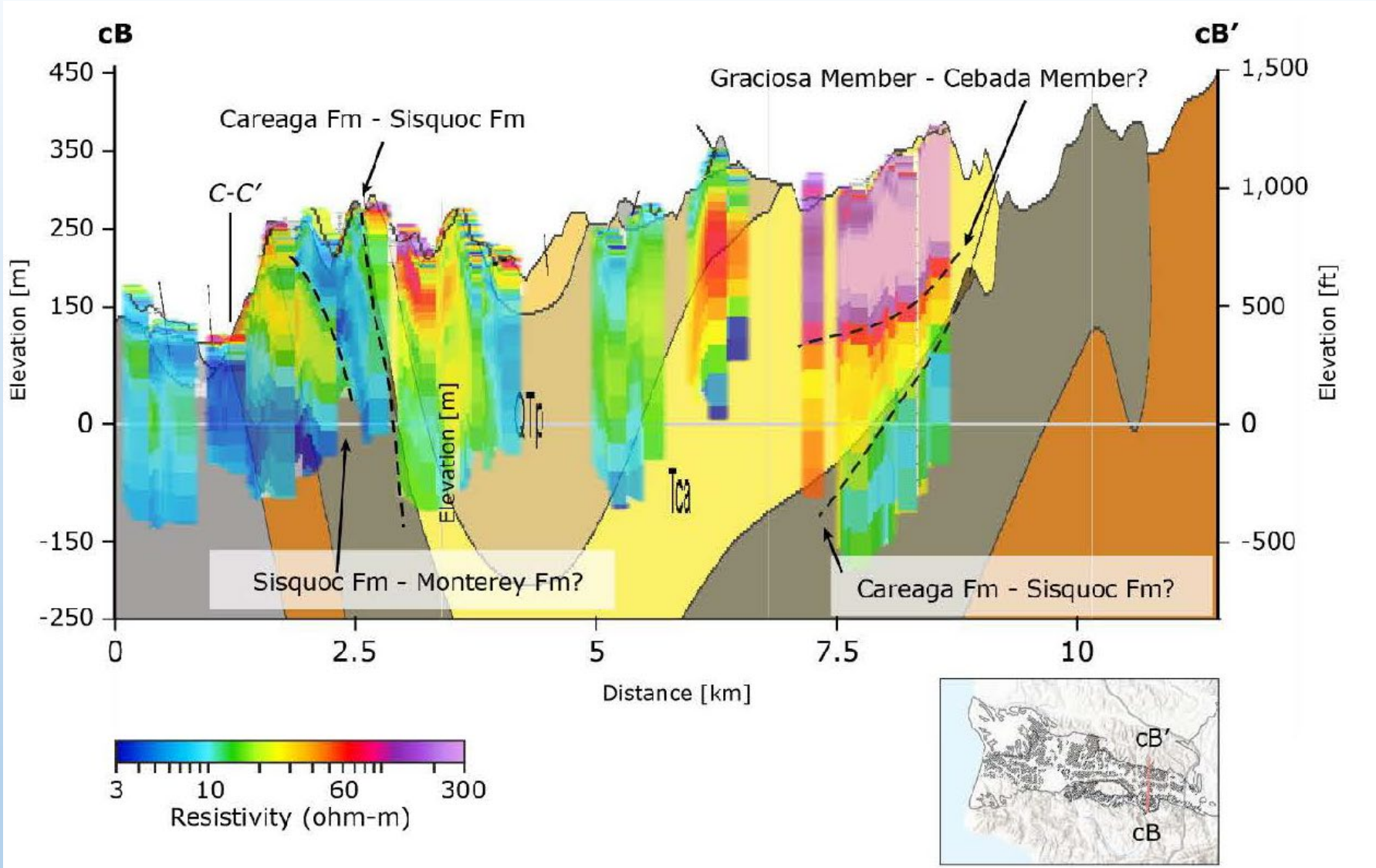
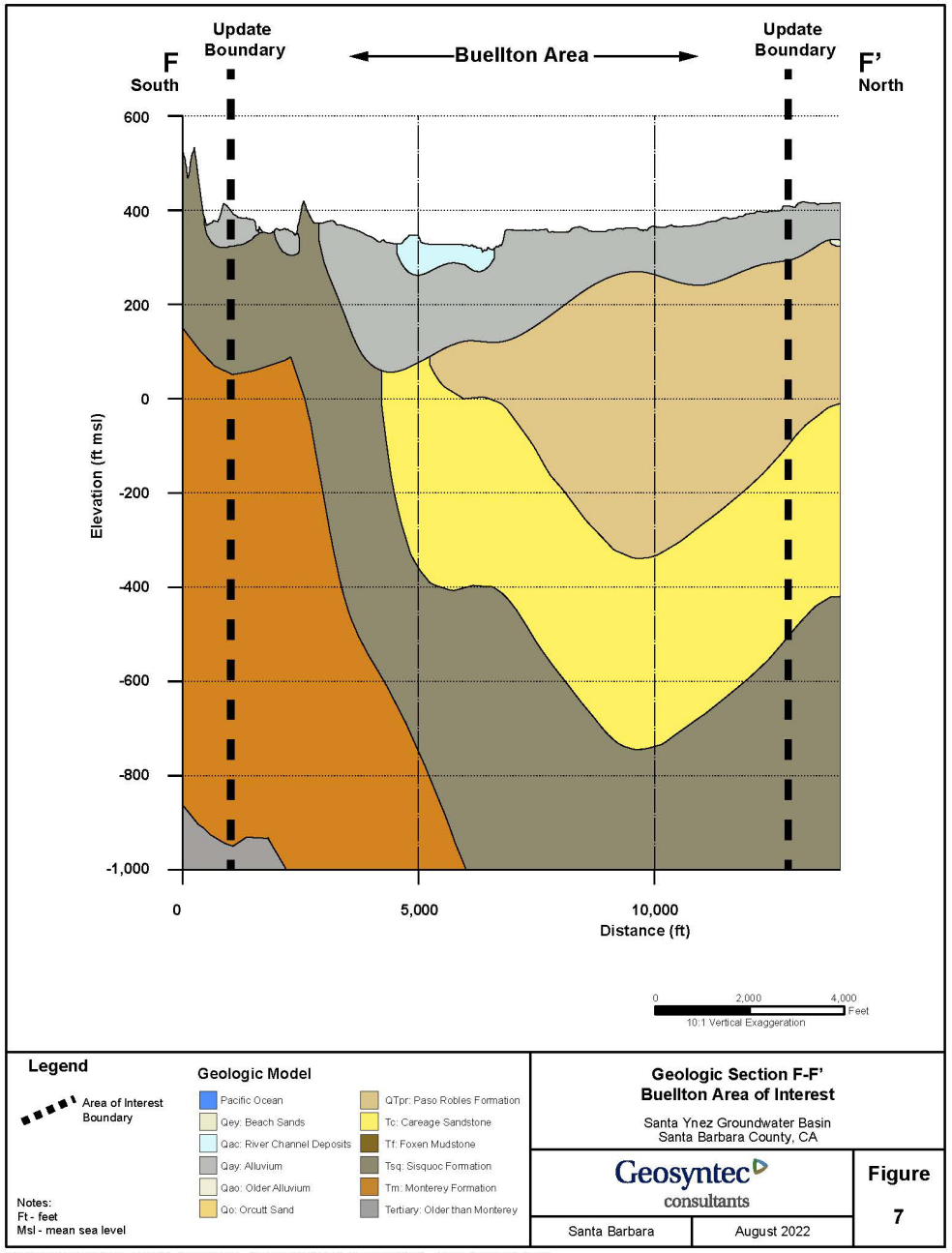
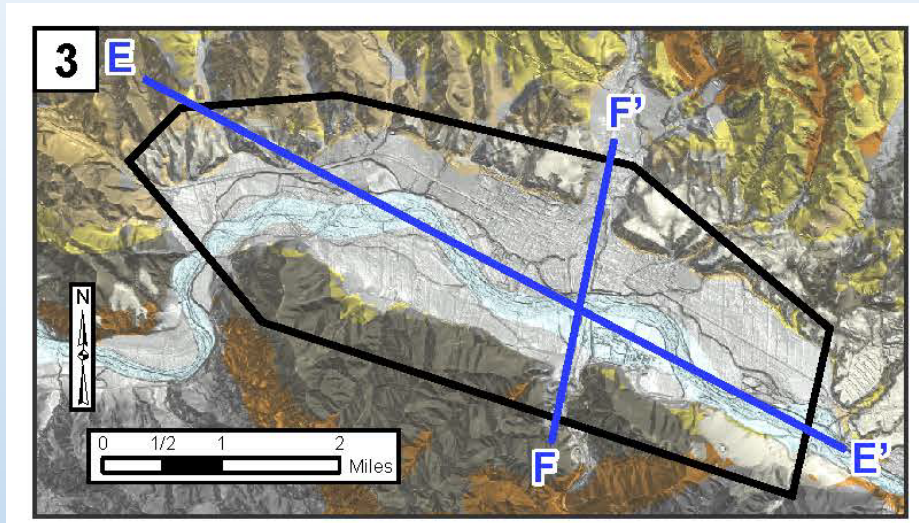


Figure 14 Cross section of resistivity estimates from AEM data (30% transparency) along transect cB-cB′, which corresponds to transect B-B′ in the CMA GSP. The upper portion of Figure 2a.1-3b from the GSP is shown in the background.



"C:\Users\jfranck\Geosyntec\SB Geoscience - Projects\SYRV\17_Illustrator\Fig7 - Cross Section F-F'.ai"



ıation

terey

Cross Section Location Map
AEM Investigation

Santa Ynez Groundwater Basin
Santa Barbara County, CA

Geosyntec consultants

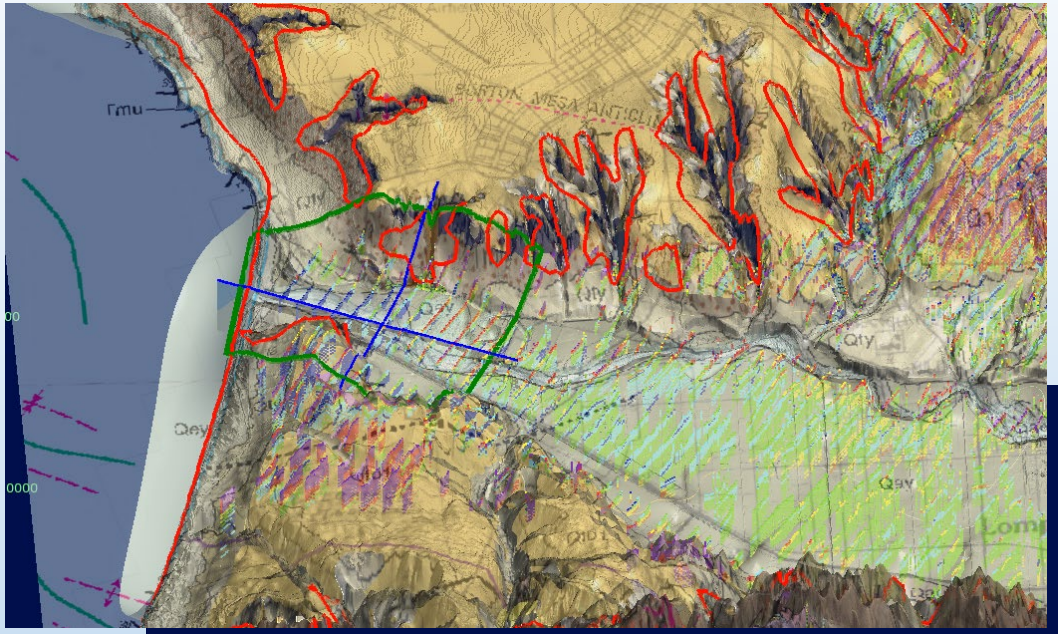
Santa Barbara | July 2022

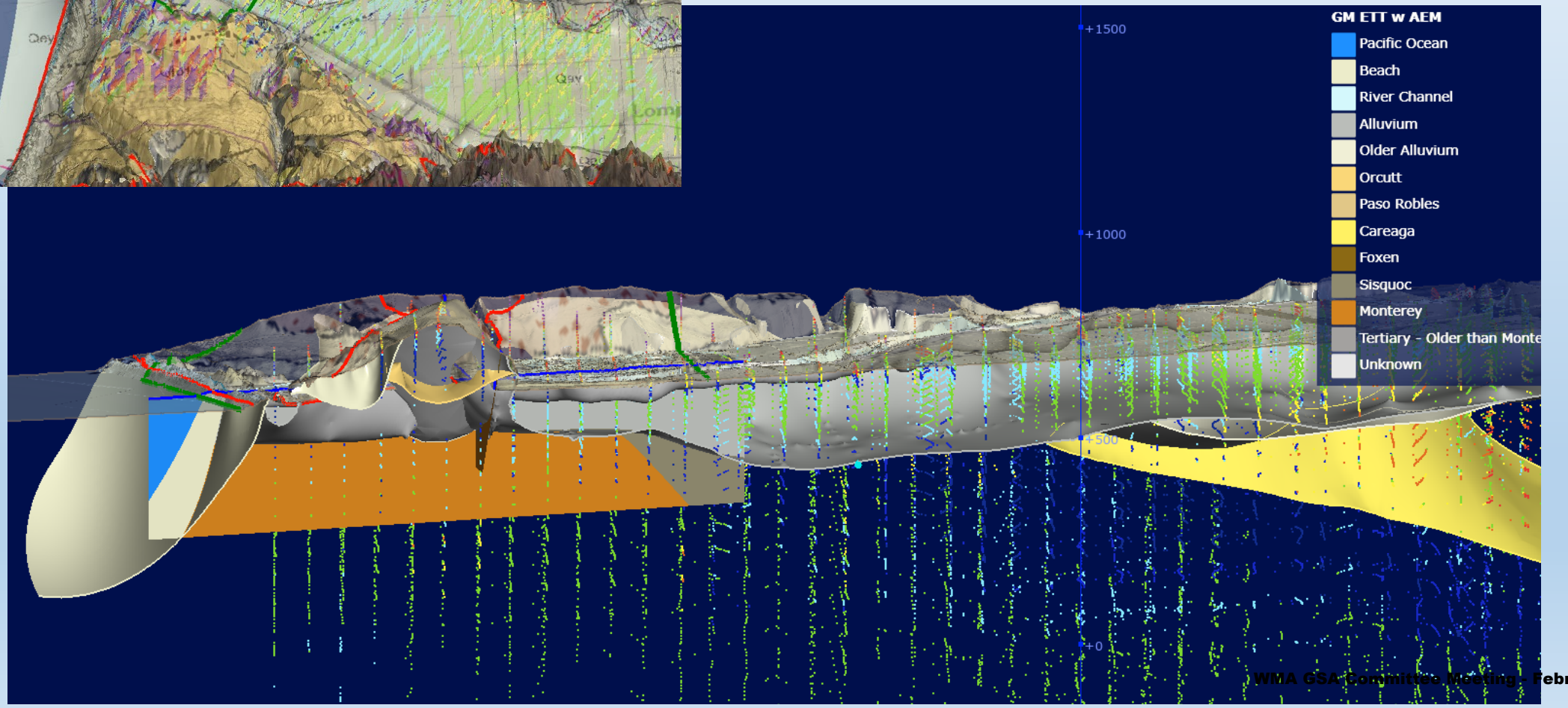
Figure 1

Overall Summary

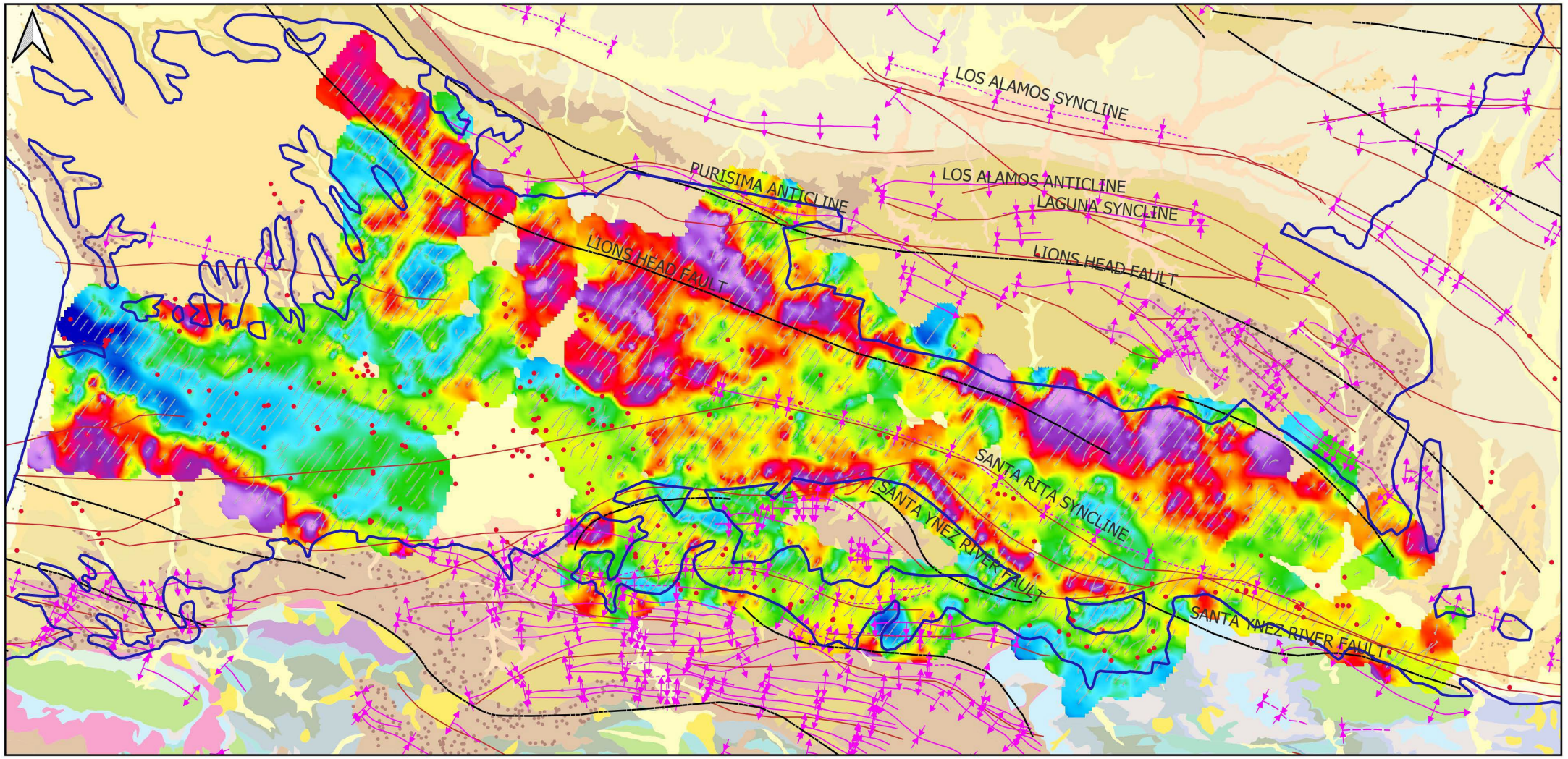
1. Confirms Original Hydrogeologic Conceptual Model
    1. 1950s Dibblee studies hold up!
2. Other conclusions
    1. Santa Ynez Estuary and Deeper Aquifer Boundary Refinements (WMA Lower Aquifer, CMA Buellton Aquifer); Geologic and Modflow Models Updated
    2. Geologic Structure Controlling Groundwater Movement from Buellton Uplands to Santa Rita Uplands still not well understood

Valuable Tools and Data for GSA





Depth interval 0 to 20m (0 to 66 ft)



Date: 2022-04-20, Created by: CCN, Checked by: PRT, Approved by: MAXH

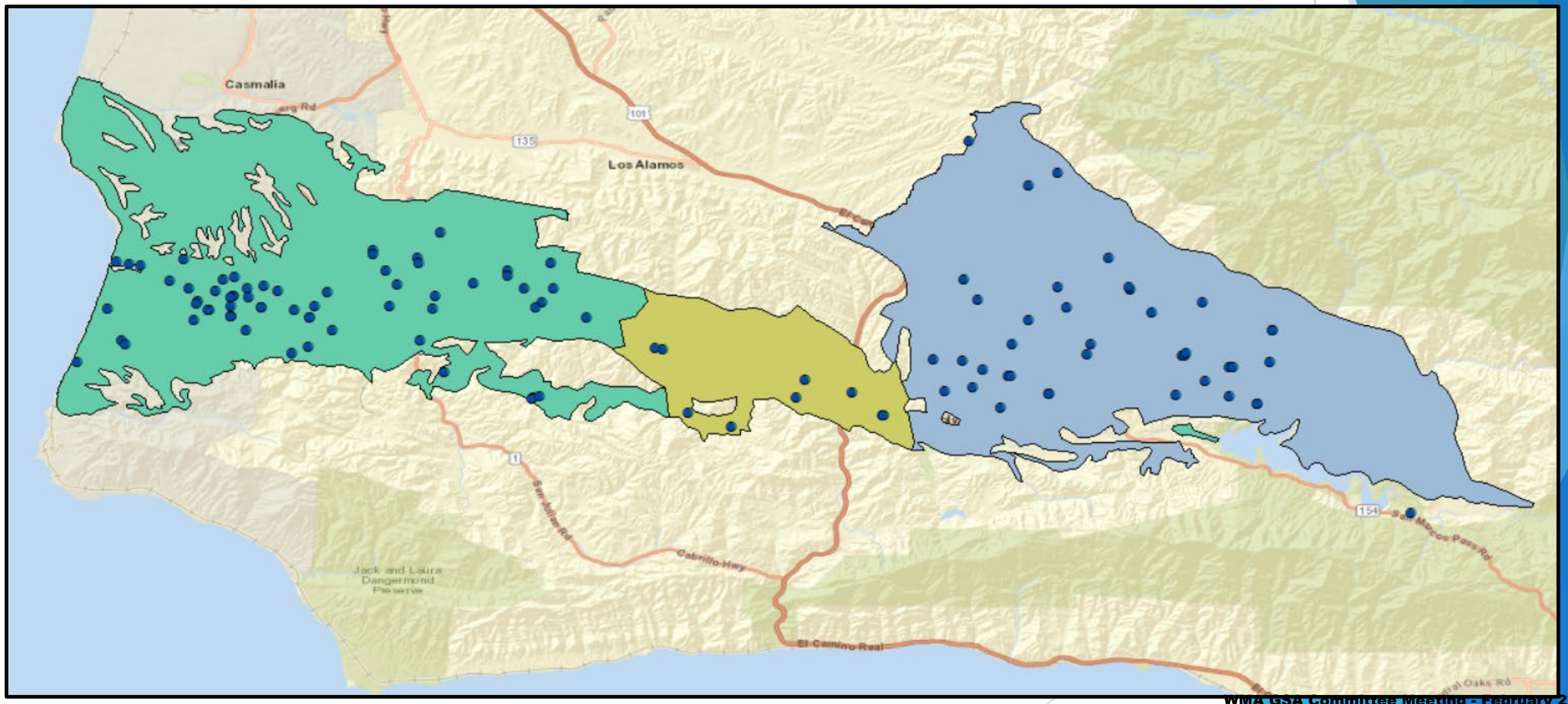
Questions?

SANTA YNEZ RIVER VALLEY GROUNDWATER BASIN

WESTERN MANAGEMENT AREA

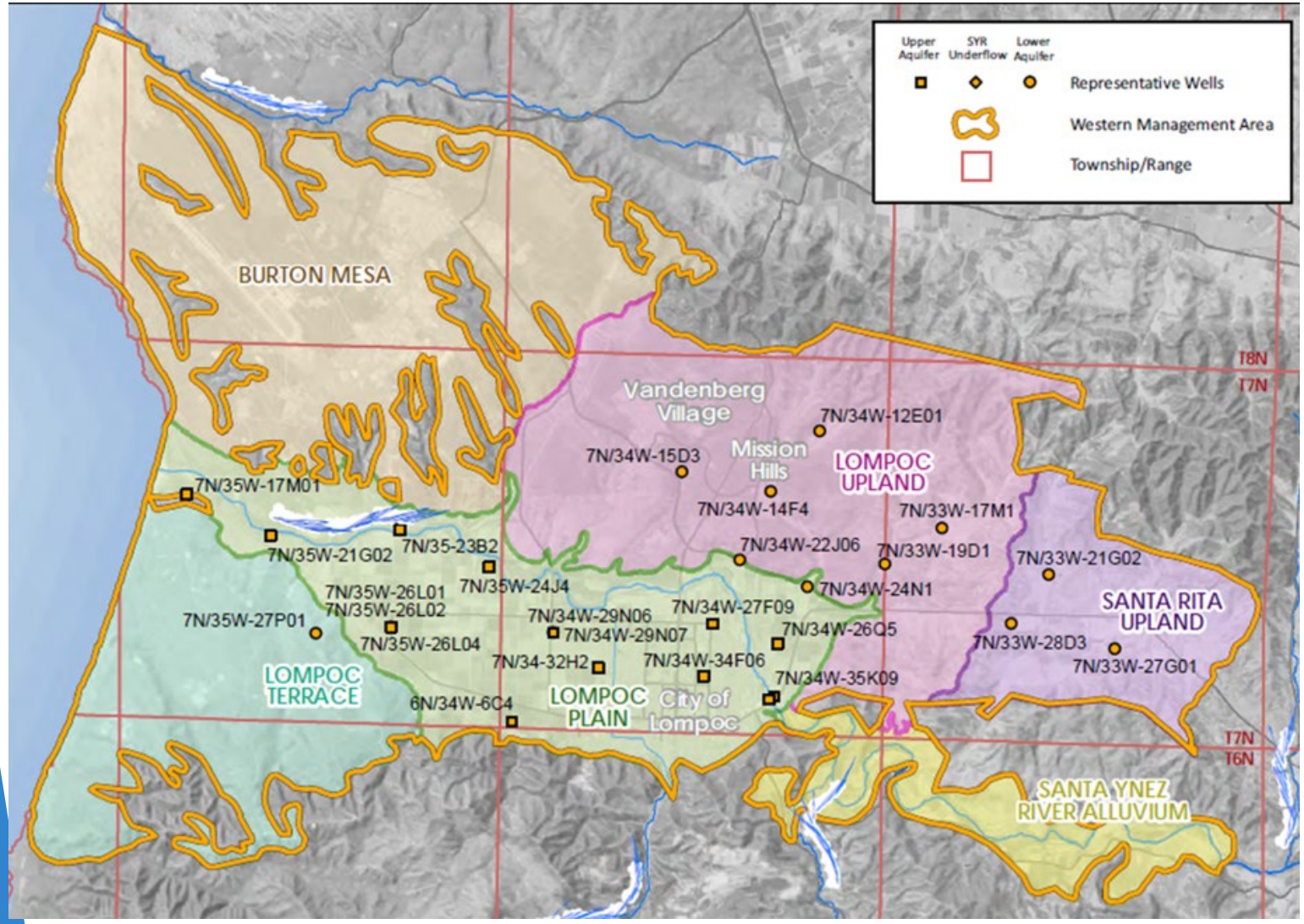
OVERVIEW OF HISTORICAL WATER LEVEL TRENDS AND RECENT OCTOBER 2022 MEASUREMENTS

NETWORK OF 111 WELLS THROUGHOUT THE ENTIRE SANTA YNEZ GROUNDWATER BASIN



NETWORK OF 56 WELLS IN THE WMA

(22 ARE REPRESENTATIVE WELLS IN GSP)



- **Water level measurements** are taken biannually in March (hydrologic maximum) and October (hydrologic minimum)
- Depth below land surface elevation is adjusted to **mean sea level**
- **Staff measured 48 of 56 wells** in October 2022
- **All 22 WMA representative wells** were measured in October 2022
- **Water levels decreased** in ~60% of measured wells (29 of 48)

OCTOBER 2022 WMA WATER LEVEL MEASUREMENTS SHOWING 1-YEAR CHANGE

WELL ID	DATE	DEPTH TO WATER	FALL 2021	1-YEAR CHANGE
6N/33W-8J3	10/4/2022	45.50	48.64	3.14
6N/33W-8R1	10/4/2022	51.83	53.67	1.84
6N/33W-9M1	10/4/2022	48.88	52.74	3.86
6N/34W-12C5	10/4/2022	46.11	53.22	7.11
7N/33W-21G2	10/7/2022	361.39	357.91	(3.48)
7N/33W-21N1	10/7/2022	304.33	303.67	(0.66)
7N/33W-27G1	10/6/2022	397.69	384.23	(13.46)
7N/33W-28D3	10/7/2022	309.73	308.46	(1.27)
7N/33W-17M1	10/7/2022	284.13	282.04	(2.09)
7N/33W-17N2	10/7/2022	308.40	306.29	(2.11)
7N/33W-19D1	10/7/2022	206.80	206.30	(0.50)
7N/33W-20G	10/7/2022	325.58	325.09	(0.49)
7N/34W-12E1	10/6/2022	332.53	331.82	(0.71)
7N/34W-14F4	10/7/2022	232.96	232.96	0.00
7N/34W-14L1	10/7/2022	221.38	221.32	(0.06)
7N/34W-15D3	10/6/2022	145.10	143.33	(1.77)
7N/34W-15E1	10/6/2022	139.11	136.97	(2.14)
7N/34W-15P2	10/6/2022	261.89	261.00	(0.89)
6N/34W-6C4	10/6/2022		81.11	
7N/34W-20K4	10/3/2022	38.13	36.03	(2.10)
7N/34W-22J6	10/6/2022	52.08	51.53	(0.55)
7N/34W-24N1	10/6/2022	84.85	84.98	0.13
7N/34W-26H3	10/6/2022			
7N/34W-27G6	10/6/2022		41.91	
7N/34W-29E4	10/3/2022	37.76	37.12	(0.64)
7N/34W-29N6	10/3/2022	39.41	38.19	(1.22)
7N/34W-29N7	10/3/2022	41.90	39.60	(2.30)

WELL ID	DATE	DEPTH TO WATER	FALL 2021	1-YEAR CHANGE
7N/34W-30L10	10/3/2022	35.72	36.68	0.96
7N/34W-31R2	10/3/2022	45.48	43.74	(1.74)
7N/34W-32H2	10/6/2022		39.52	
7N/34W-35K9	10/6/2022	24.59	43.57	18.98
7N/35W-24J4	10/3/2022	38.23	37.09	(1.14)
7N/35W-17K20	10/3/2022	15.35	16.91	1.56
7N/35W-17M1	10/3/2022	1.89	3.39	1.50
7N/35W-18J2	10/3/2022	0.81	2.67	1.86
7N/35W-22J1	10/3/2022	22.07	26.59	4.52
7N/35W-23E6	10/3/2022	25.36	71.16	45.80
7N/35W-23J5	10/3/2022	24.23	25.43	1.20
7N/35W-23Q2			21.08	
7N/35W-23Q3			27.83	
7N/35W-23Q4	10/3/2022	24.43	27.05	2.62
7N/35W-24K5	10/3/2022	28.67	30.40	1.73
7N/35W-24N3	10/3/2022	27.30	25.88	(1.42)
7N/35W-25F6	10/3/2022	14.77	15.31	0.54
7N/35W-25F7	10/3/2022	6.17	13.90	7.73
7N/35W-26F4	10/3/2022	22.90	24.69	1.79
7N/35W-26L1	10/3/2022	7.35	8.24	0.89
7N/35W-26L2	10/3/2022	12.23	12.50	0.27
7N/35W-26L4	10/3/2022	18.25	19.34	1.09
7N/35W-27C1	10/3/2022	21.37	20.94	(0.43)
7N/35W-35A3	10/3/2022	26.64	25.73	(0.91)
6N/36W-26G1				
6N/36W-26C1	10/3/2022	35.39	35.14	(0.25)
6N/36W-01K2	10/3/2022	149.58	149.94	0.36
7N/35W-22M1	10/3/2022	17.62	16.54	(1.08)
7N/35W-15M1	10/3/2022	101.75	102.36	0.61
7N/35W-21G2	10/3/2022	13.54	15.08	1.54
7N/35W-23B2	10/3/2022	25.94	29.97	4.03
7N/35W-27F1	10/3/2022	16.94	15.98	(0.96)
7N/35W-27H5	10/3/2022	19.80	18.39	(1.41)
7N/35W-27J1	10/3/2022	22.49	20.07	(2.42)
7N/35W-27P1	10/3/2022	225.83	226.23	0.40
7N/35W-30G1				
7N/35W-31J2	10/3/2022	6.96	6.67	(0.29)

22 WMA MEASURED WATER LEVELS IN WMA REPRESENTATIVE WELLS

- SANTA RITA/SANTA ROSA
  - Measured 3 representative wells
- LOMPOC UPLAND
  - Measured 5 representative wells
- LOMPOC PLAIN – CENTRAL AND EASTERN
  - Measured 8 representative wells
- WESTERN LOMPOC PLAIN
  - Measured 3 representative wells
- VANDENBERG SPACE FORCE BASE
  - Measured 3 representative wells

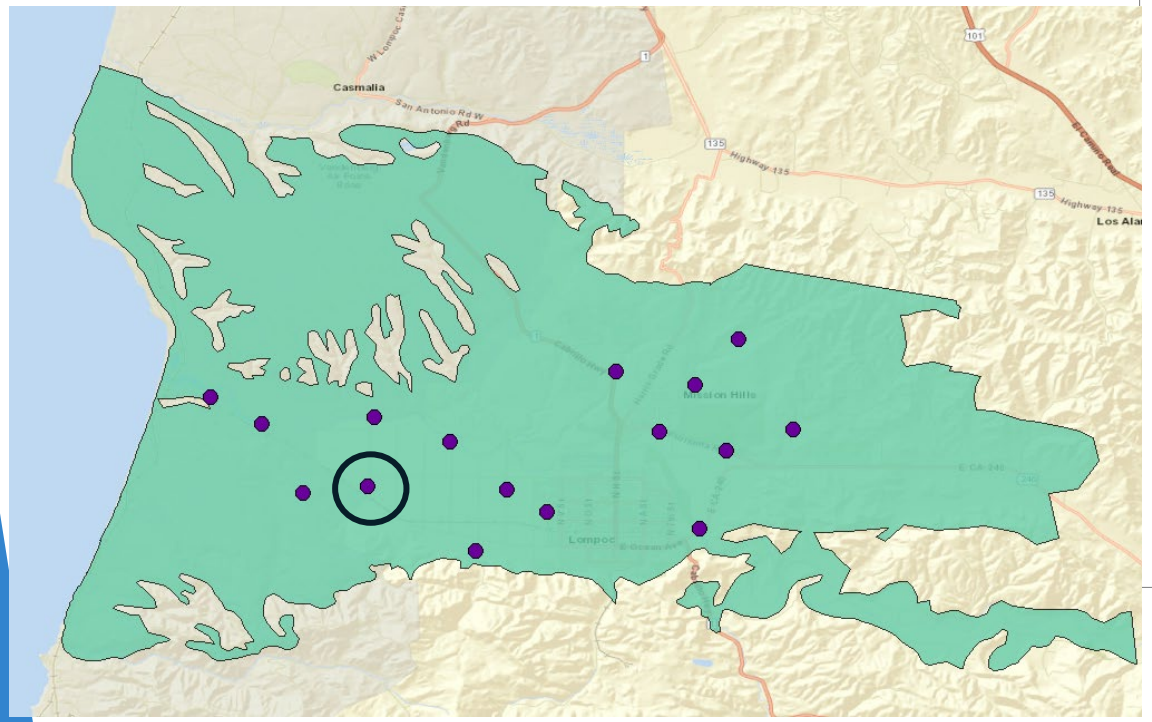
Undesirable results defined as: *water levels below minimum thresholds in greater than 50% representative wells for two consecutive years of average or above average precipitation*

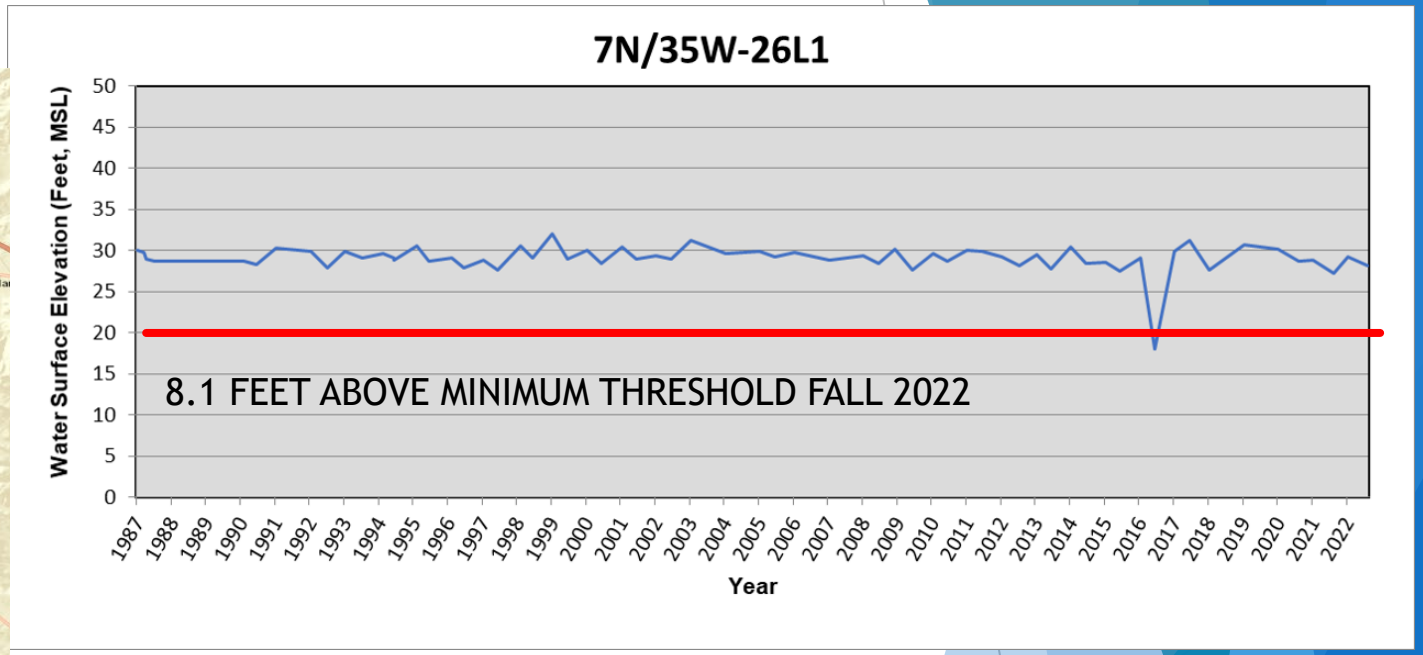
WMA REPRESENTATIVE WELL MEASUREMENTS

WELL ID	SGMA NAME	MINIMUM THRESHOLD (FT)	WATER LEVEL ELEVATION (FT) SPRING 2022	WATER LEVEL ELEVATION (FT) FALL 2022
SANTA RITA / SANTA ROSA				
7N/33W-21G2	SYWATER 78	46	62.98	59.87
7N/33W-27G1	SYWATER 80	31	52.59	38.34
7N/33W-28D3	SYWATER 81	25	44.37	42.41
LOMPOC UPLAND				
7N/33W-17M1	SYWATER 47	31	46.98	45.21
7N/33W-19D1	SYWATER 49	28	47.88	46.95
7N/34W-12E1	SYWATER 51	35	54.76	53.68
7N/34W-14F4	SYWATER 52	23	39.29	40.68
7N/34W-15D3	SYWATER 602	31	49.57	47.60
LOMPOC PLAIN - CENTRAL & EASTERN				
6N/34W-6C4	SYWATER 20	22	34.34	
7N/34W-22J6	SYWATER 22	28	45.93	45.33
7N/34W-24N1	SYWATER 23	29	46.77	46.42
7N/34W-29N6	SYWATER 27	26	33.03	27.58
7N/34W-29N7	SYWATER 28	15	36.65	24.76
7N/34W-32H2	SYWATER 31	28	38.72	
7N/34W-35K9	SYWATER 32	67	78.63	81.33
7N/35W-24J4	SYWATER 33	20	25.31	20.71
WESTERN LOMPOC PLAIN				
7N/35W-26L1	SYWATER 15	20	29.26	28.09
7N/35W-26L2	SYWATER 16	18	25.47	22.49
7N/35W-26L4	SYWATER 17	6	18.20	17.02
VANDENBERG SPACE FORCE BASE				
7N/35W-23B2	SYWATER 40	0	7.00	6.62
7N/35W-27P1	SYWATER 44	20	38.42	36.73
7N/35W-21G2	SYWATER 39	0	10.19	9.03

All 22 representative wells had measured water levels above Minimum Threshold

WESTERN LOMPOC PLAIN
7N/35W-26L1

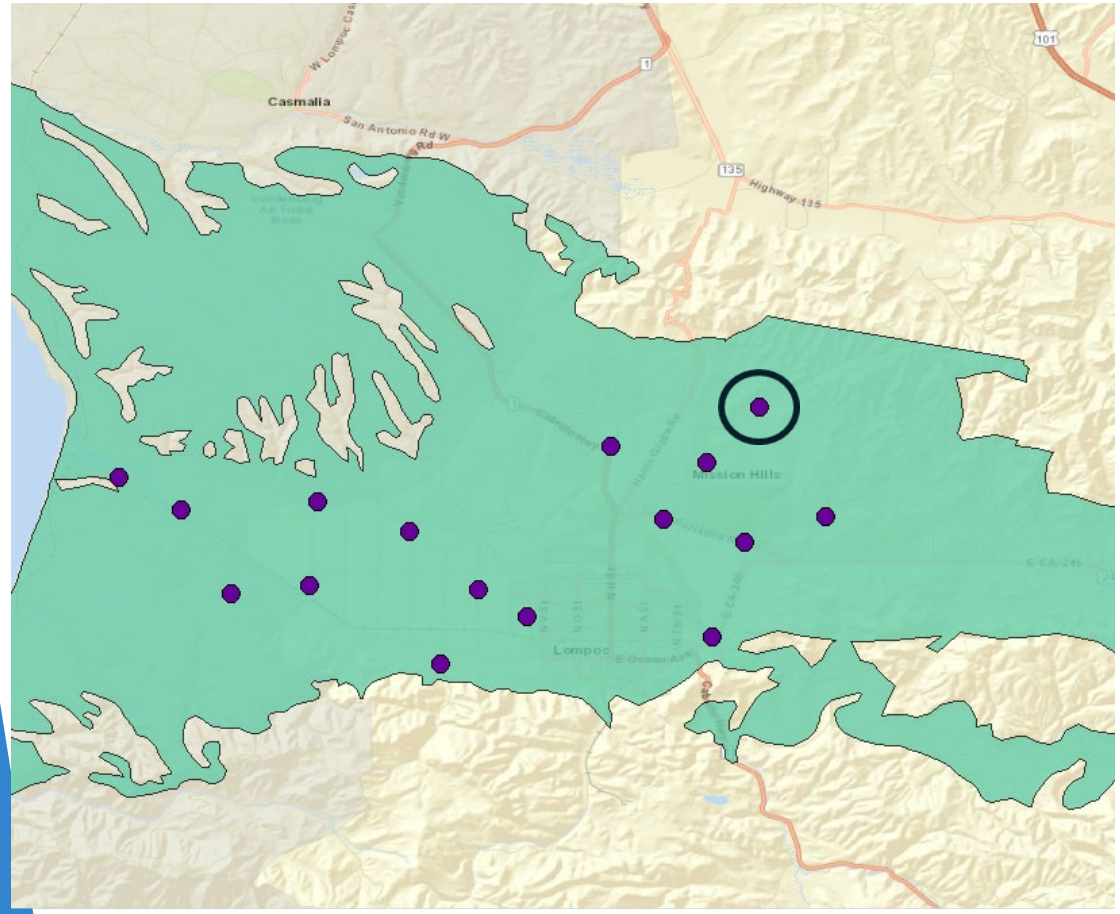


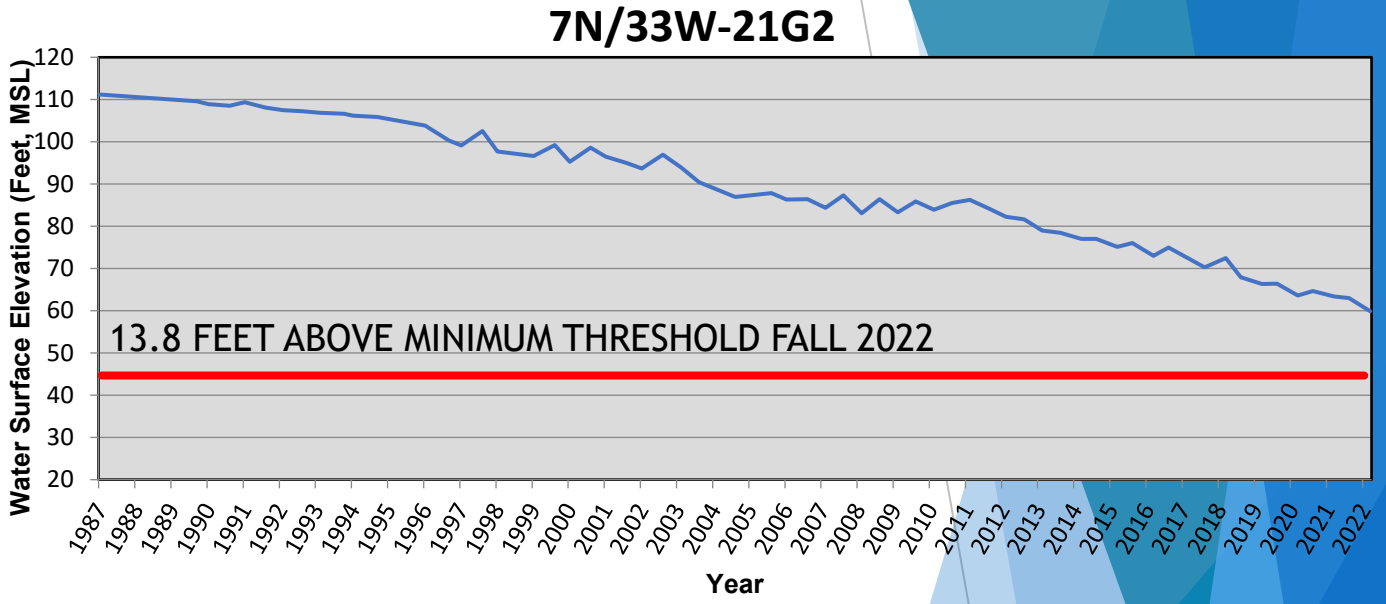


October 2021 to 2022 comparison

0.89 feet

SANTA RITA UPLAND
7N/33W-21G2



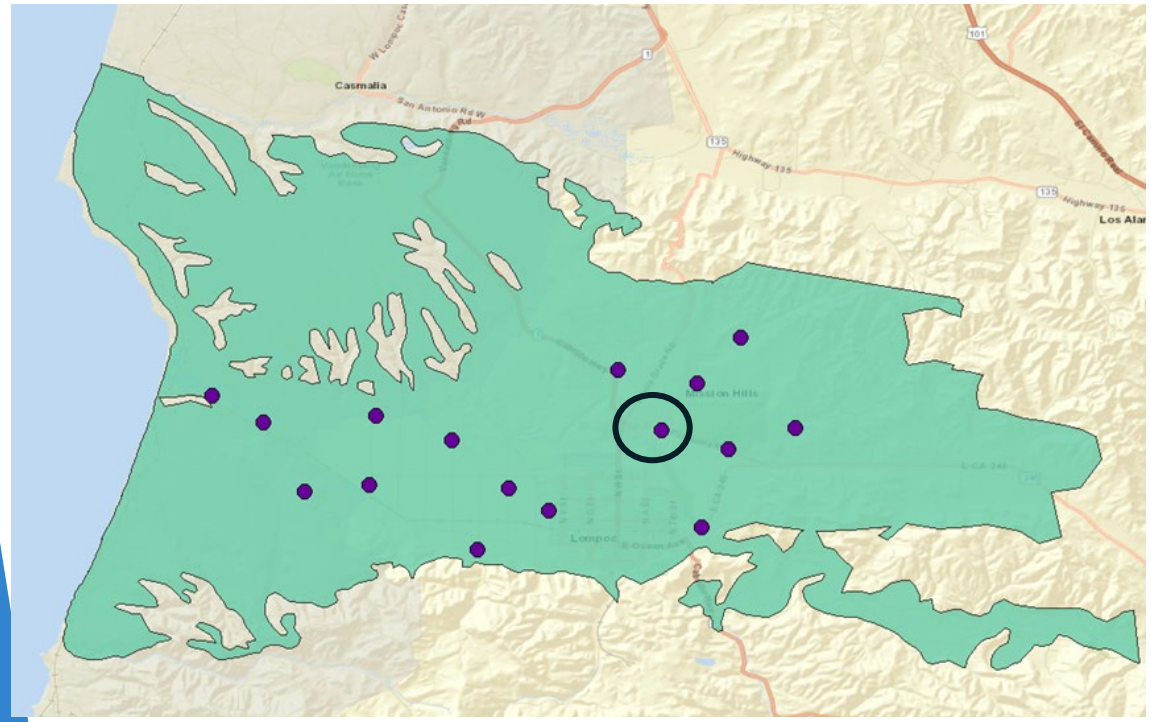


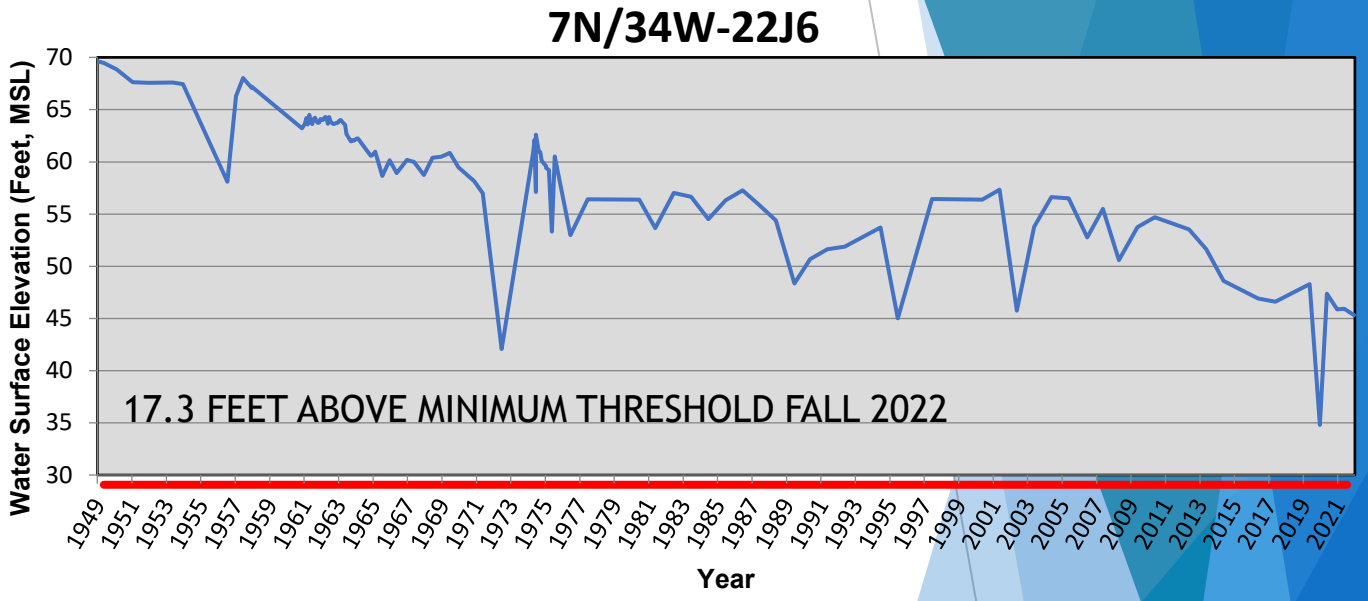
October 2021 to 2022 comparison

-13.46 feet

MID-LOMPOC PLAIN

7N/34W-22J6



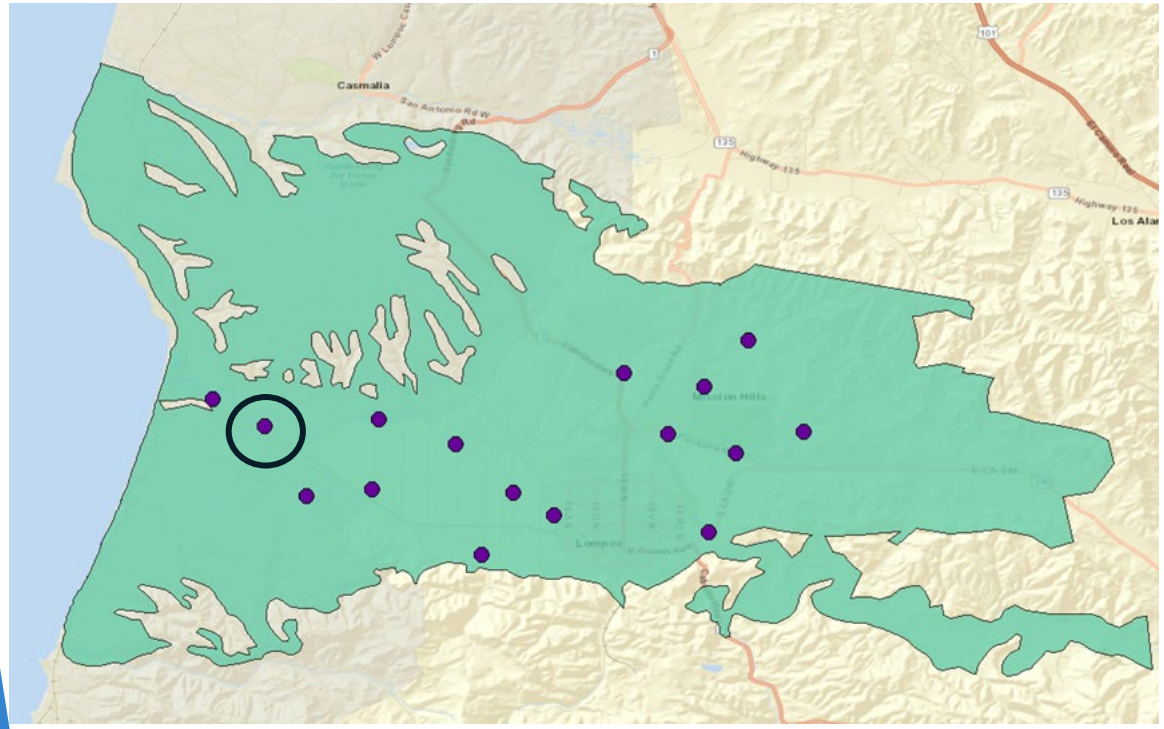


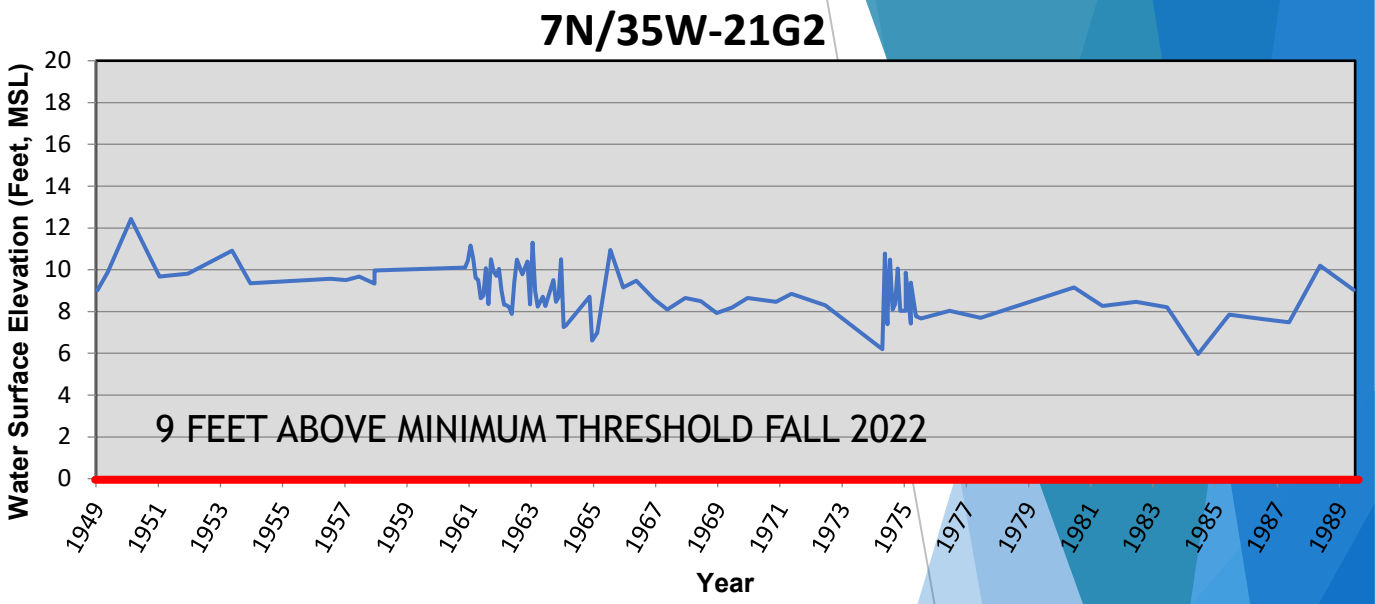
MT=28

October 2021 to 2022 comparison

-0.55

WESTERN LOMPOC PLAIN
7N/35W-21G2



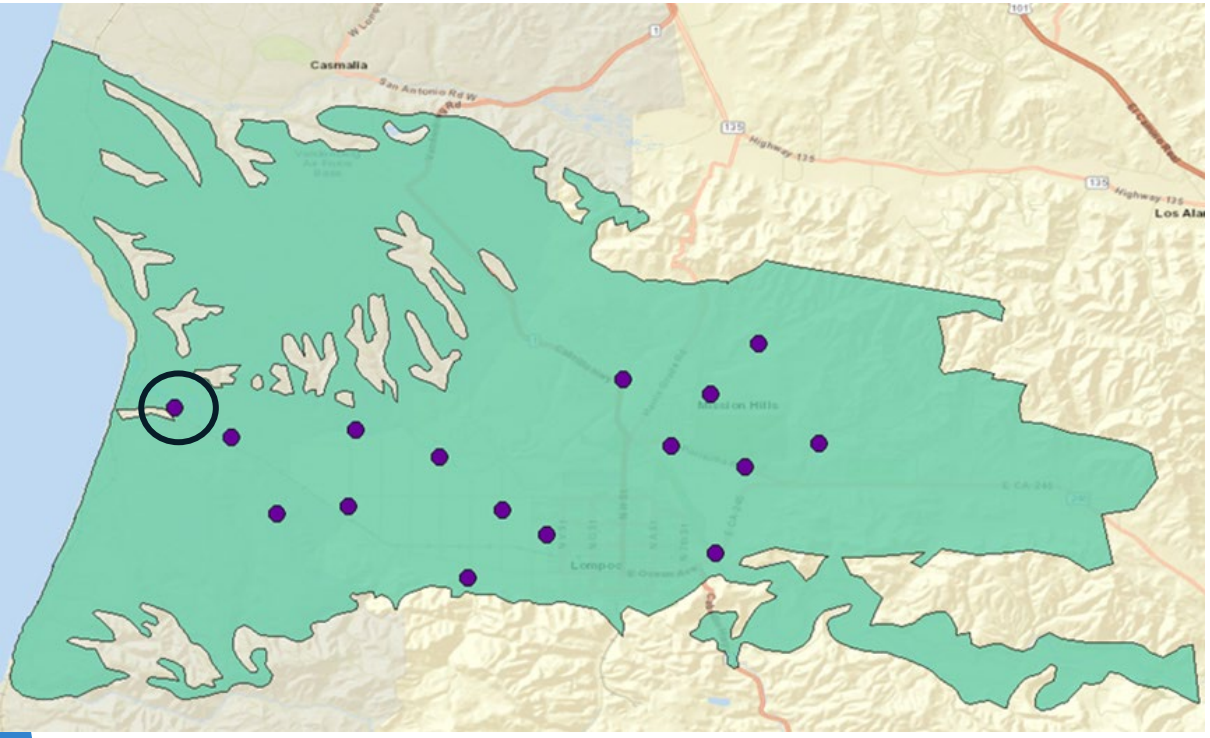


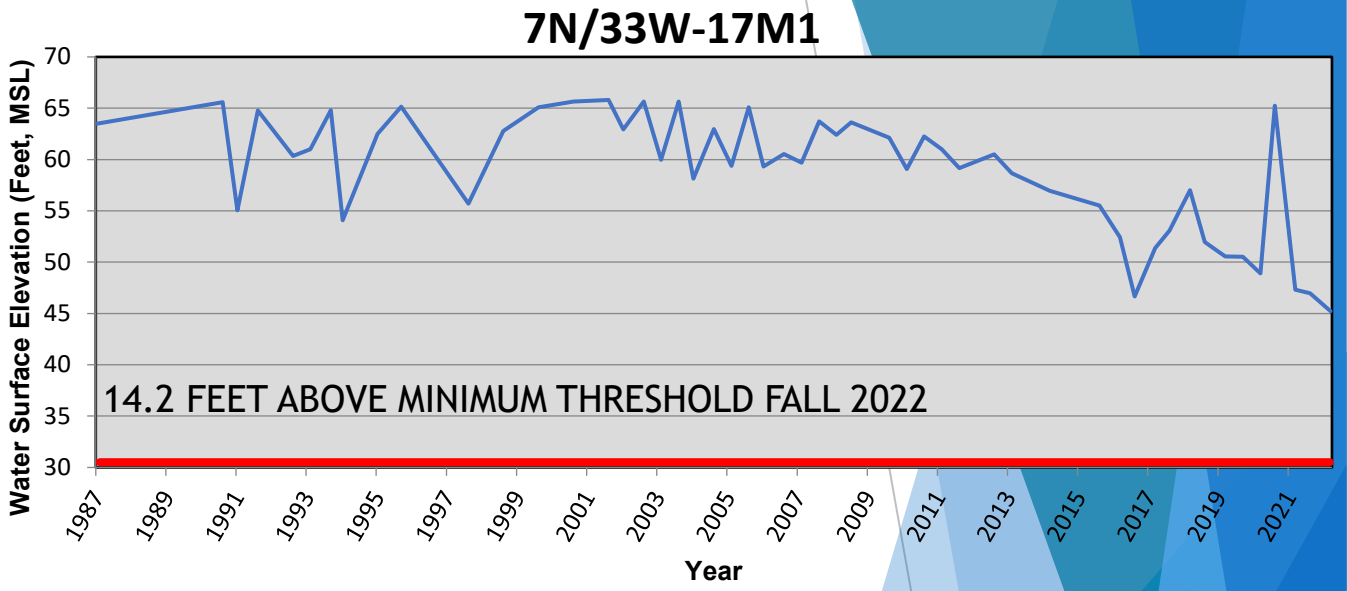
MT=0

October 2021 to 2022 comparison

1.54 feet

WESTERN LOMPOC PLAIN
7N/33W-17M1



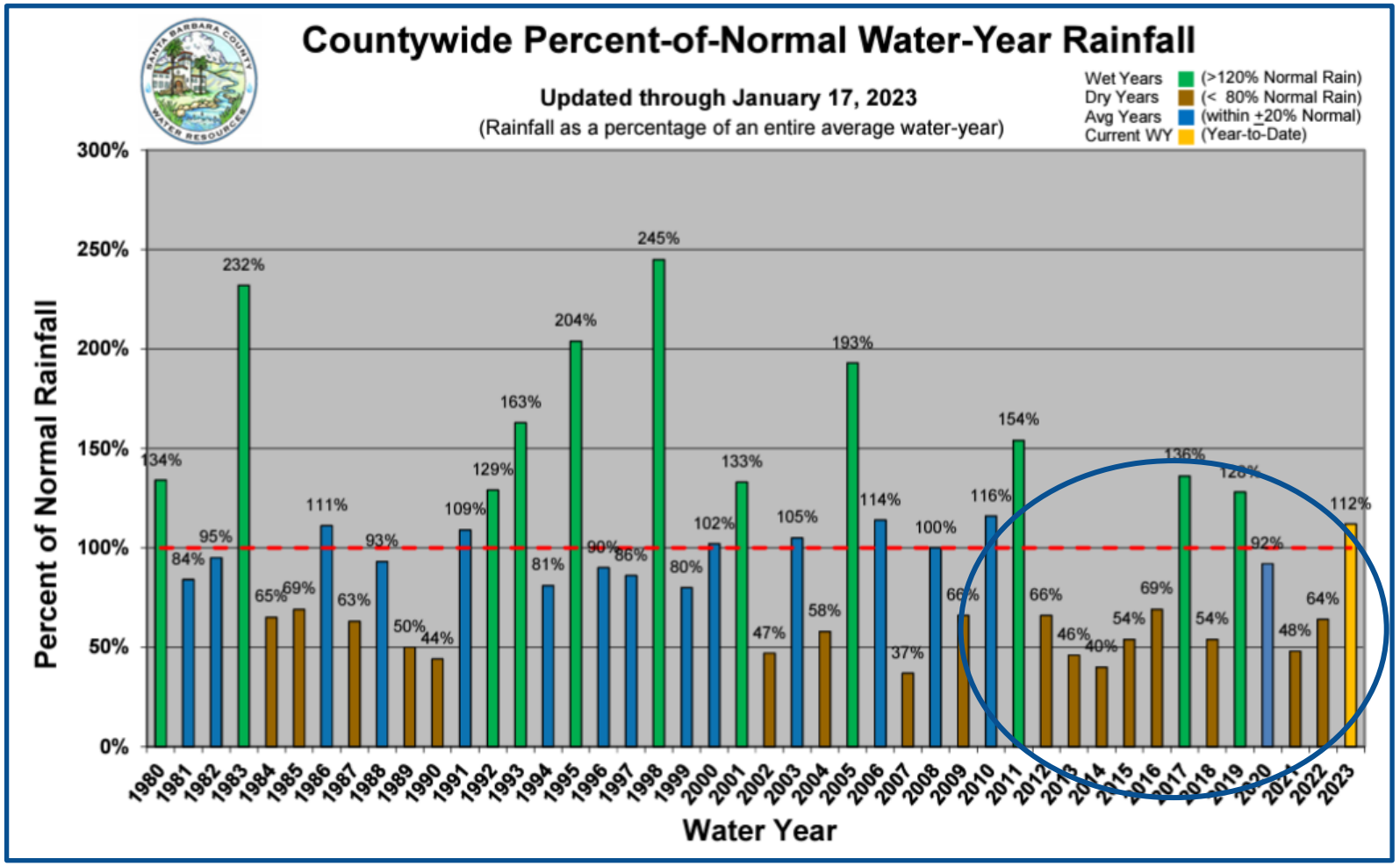


MT= 31

October 2021 to 2022 comparison

-2.09 feet

PRECIPITATION TREND



- 2021 Climate Normal Report from NOAA indicates warmer than average temperatures, and a 10% decrease in average annual precipitation in the Southwest.
- 9 of the last 12 years had below average precipitation.
- 5 of the last 12 years were near 50% or less of normal

SANTA YNEZ BASIN CUMULATIVE CHANGE IN STORAGE

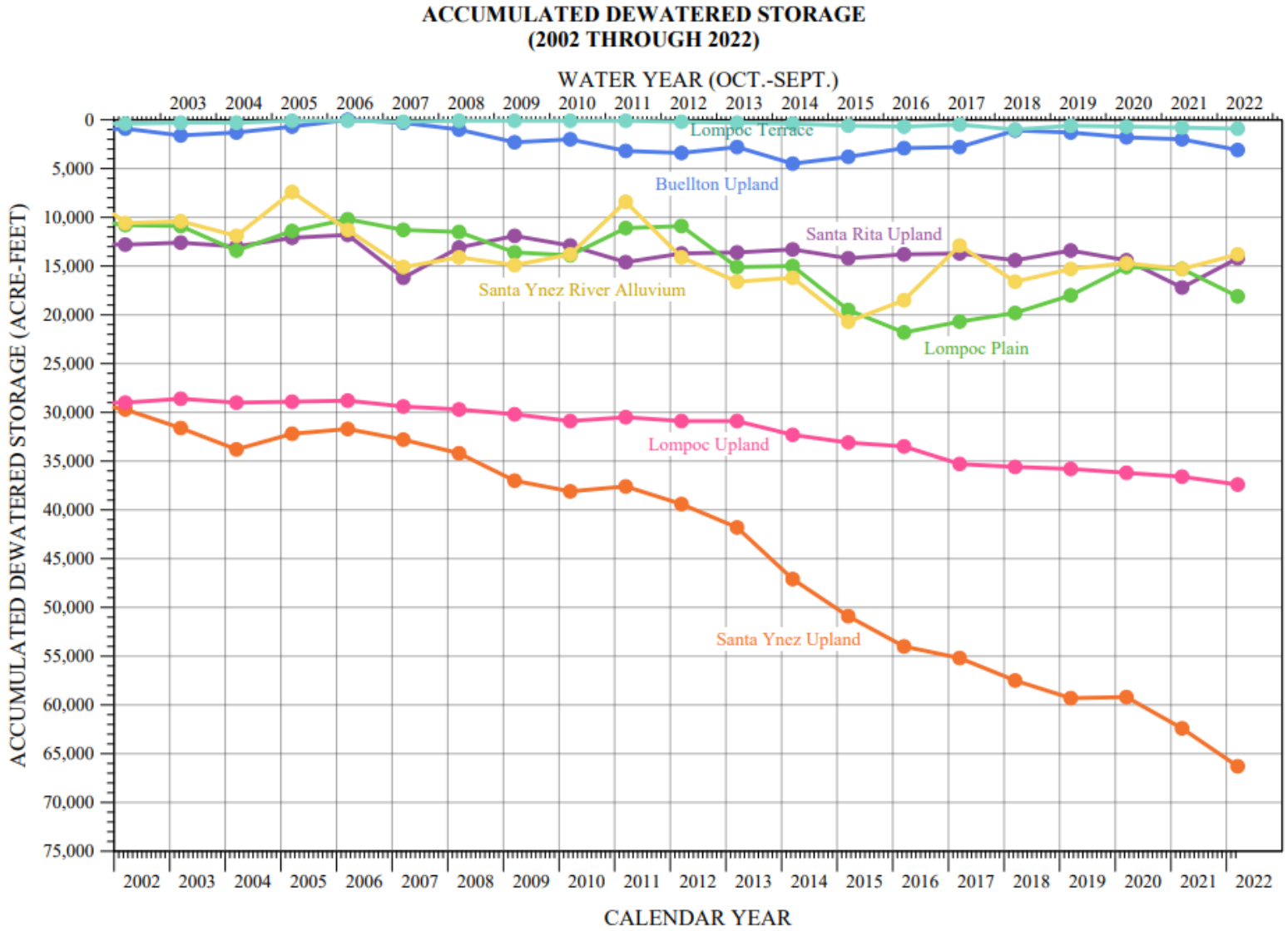


Figure from 2021-2022 Santa Ynez Water Conservation District Annual Report.

WMA Areas:
Lompoc Plain, Santa Rita Upland, Lompoc Upland, Santa Ynez River Alluvium

CUMULATIVE CHANGE IN STORAGE
SANTA YNEZ BASIN % NORMAL PRECIPITATION

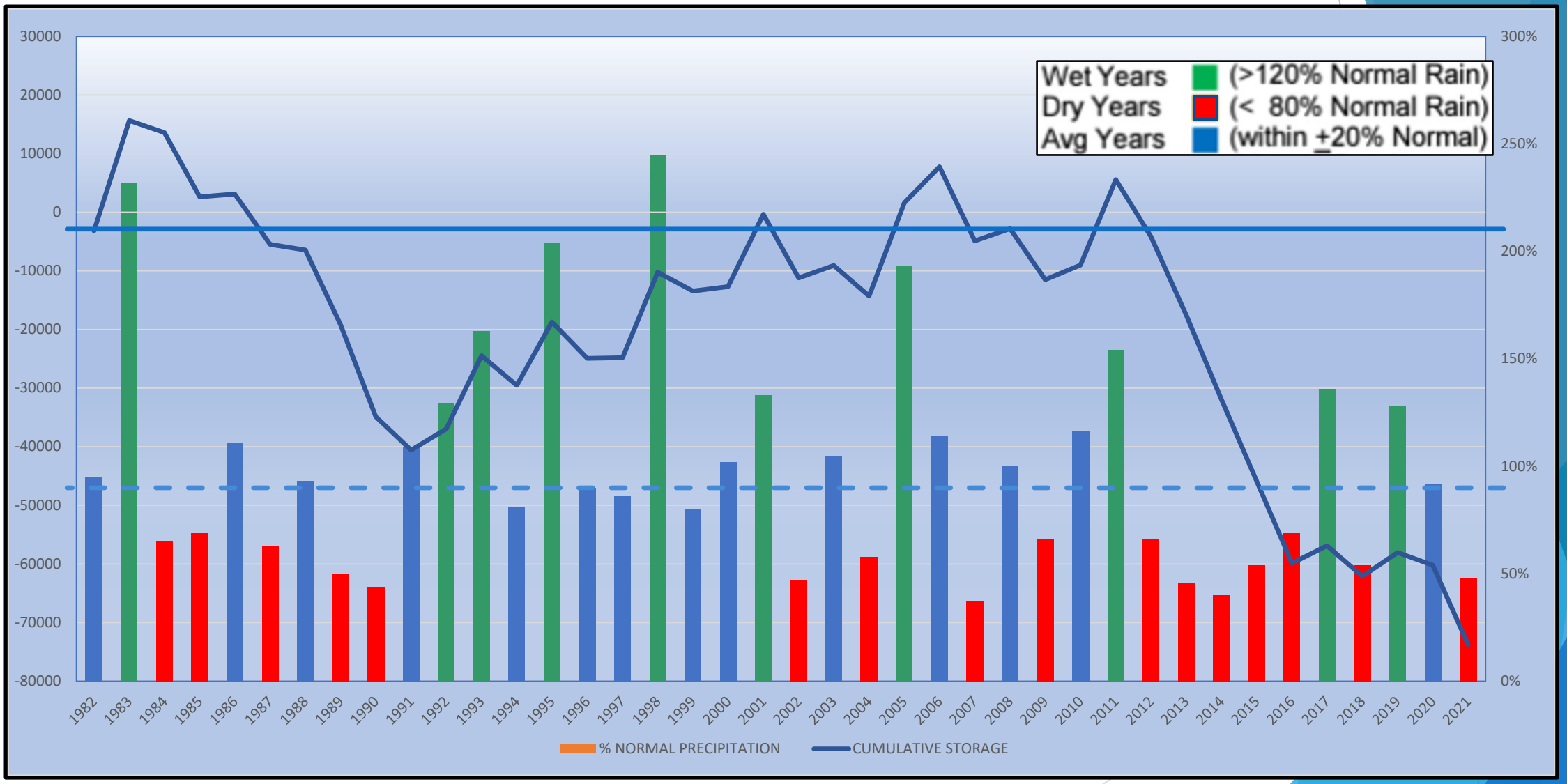
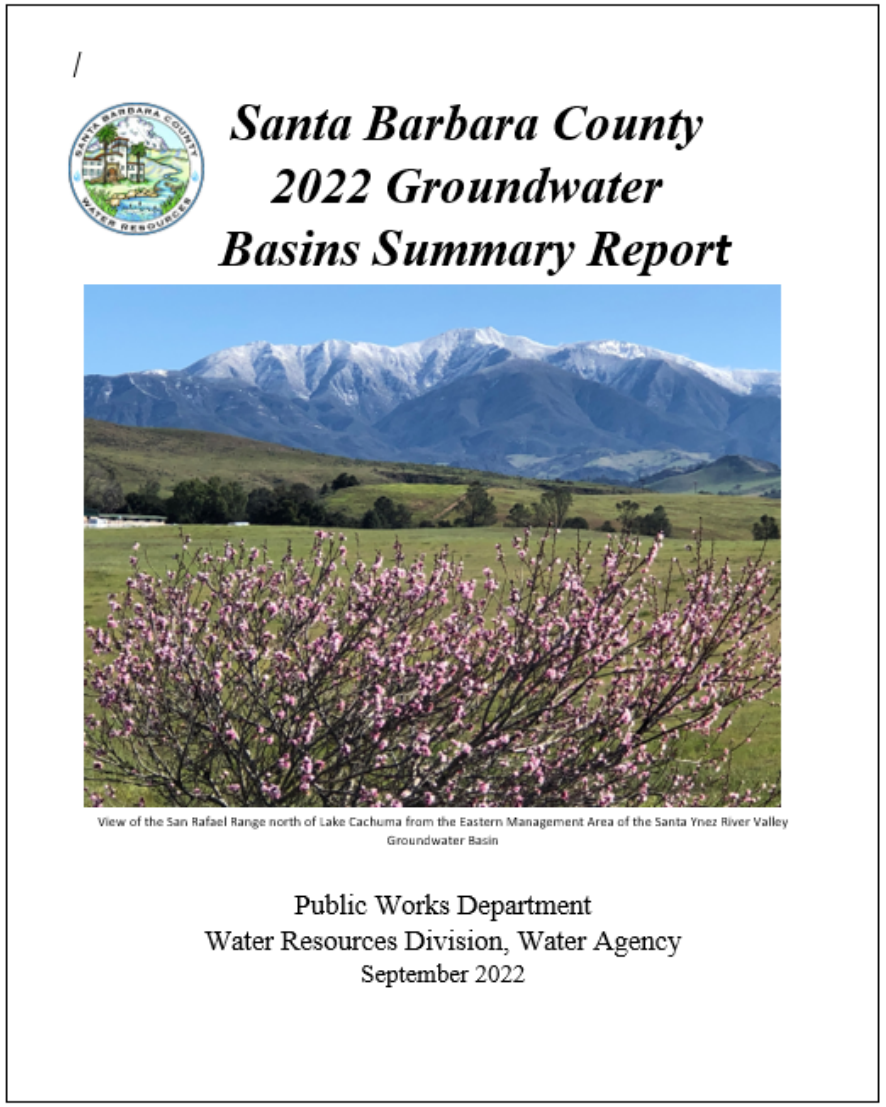


Figure made by Matt Scrudato from Santa Barbara County Water Agency.

AVAILABLE BASIN INFORMATION



GROUNDWATER IN SANTA BARBARA COUNTY
https://www.countyofsb.org/2523/Groundwater-in-Santa-Barbara-County

SANTA YNEZ RIVER VALLEY GROUNDWATER
https://www.countyofsb.org/2543/Santa-Ynez-River-Valley-Groundwater-Basin

GEOLOGY & GROUNDWATER
https://www.countyofsb.org/2543/Santa-Ynez-River-Valley-Groundwater-Basin


QUESTIONS?