

NOTICE AND AGENDA OF REGULAR MEETING

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

WILL BE HELD
AT **10:00 AM**, WEDNESDAY, FEBRUARY 24, 2021

TELECONFERENCE MEETING ONLY – NO PHYSICAL MEETING LOCATION
PUBLIC PARTICIPATION DIAL-IN NUMBER: 1-267-866-0999
MEETING ID / PASSCODE: 2042 65 3193

Public participants can view presentation materials and live video on their device

Website: app.chime.aws (or download *Amazon Chime* app),
“Join a meeting without an account”
Meeting ID: 2042 65 3193

You do NOT need to create an Amazon Chime account or login with email for meeting participation.

Public participant phones and microphones will be muted, and webcams disabled.
Live Chat Text (online users only) will be enabled for questions.

If your device does not have a microphone or speakers, you can also call Phone Number & log in with Meeting ID listed above to listen while viewing the live presentation online.

Teleconference Meeting During Coronavirus (COVID-19) Emergency: As a result of the COVID-19 emergency and Governor Newsom’s Executive Orders to protect public health by issuing shelter-in-home standards, limiting public gatherings, and requiring social distancing, this meeting will occur solely via teleconference as authorized by and in furtherance of Executive Order Nos. N-29-20 and N-33-20. **Virtual meeting is in accordance with the [SB County Health Office Order 2021-12.2](#)**

Important Notice Regarding Public Participation in Teleconference Meeting: Those who wish to provide public comment on an Agenda Item, or who otherwise are making a presentation to the GSA Committee, may participate in the meeting using the dial-in number and passcode above. **Those wishing to submit written comments instead, please submit any and all comments and materials to the GSA via electronic mail at bbuelow@syrwcd.com.** All submittals of written comments must be received by the GSA no later than 5:00 p.m. on Tuesday, February 23, 2021, and should indicate **“February 24, 2021GSA Meeting”** in the subject line. To the extent practicable, public comments and materials received in advance pursuant to this timeframe will be read into the public record during the meeting. Public comments and materials not read into the record will become part of the post-meeting materials available to the public and posted on the SGMA website.

In the interest of clear reception and efficient administration of the meeting, all persons participating in this teleconference are respectfully requested to mute their phones after dialing-in and at all times unless speaking.

AGENDA ON NEXT PAGE

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

WEDNESDAY, FEBRUARY 24, 2021, 10:00 A.M.

AGENDA OF REGULAR MEETING

- I. Call to Order
- II. Introductions and review of SGMA in the Santa Ynez River Valley Basin
- 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 participation 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 item.)
- V. Review and consider approval of meeting minutes of November 18, 2020 and January 27, 2021
- VI. Receive WMA GSA Financial update and consider approval of WMA Warrant List
- VII. Receive update on Aerial Electro-Magnetic Survey of WMA
- VIII. Receive Presentation from Stetson Team on “Groundwater Conditions Public Comment Demonstration, Water Budget, and Numeric Groundwater Model Updates”
- IX. Consider proposed monthly “Special” WMA GSA Meetings
- X. Next “Regular” WMA GSA Meeting: **Wednesday, May 26, 2021, 10:00 AM.**
- XI. WMA GSA Committee requests and comments
- XII. Adjournment

[This agenda was posted 72 hours prior to the scheduled regular meeting at 3669 Sagunto Street, Suite 101, Santa Ynez, California, and <https://www.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. Notification 72 hours prior to the meeting will enable the GSA to make reasonable arrangements to ensure accessibility to this meeting.]

DRAFT MEETING MINUTES

Groundwater Sustainability Agency for the Western Management Area in the Santa Ynez River Groundwater Basin November 18, 2020

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, 18 November 2020. As a result of the COVID-19 emergency and Governor Newsom's Executive Orders to protect public health by issuing shelter-in-home standards, limiting public gatherings, and requiring social distancing, this meeting occurred solely via teleconference as authorized by and in furtherance of Executive Order Nos. N-29-20 and N-33-20.

GSA Committee Directors Present: Chris Brooks, Meighan Diethofer (Acting as Alternate), Steve Jordan, Jim Mosby, Bruce Nix

Alternate GSA Committee Director Present: Art Hibbits, Katherine Stewart

Staff Present: Joe Barget, Kayla Barker, Bill Buelow, Brad Hagemann, Amber Thompson, Kristin Worthley, Matt Young

Others Present: Bryan Bondy, M. Brady, Doug Circle, Maygan Cline (GeoSyntec), Lindsay Cokely, Karen Kistler, Curtis Lawler (Stetson Engineers), Miles McCammon (Stetson Engineers), Madelyn Murray (Dudek), Tim Nicely (GSI), Anita Regmi (DWR), Scott Williams, Charles Witt, Susan Xie and three members of the public

I. Call to Order and Roll Call

GSA Committee Director Brooks called the meeting to order at 10:08 am and asked Mr. Buelow to call roll. Four Committee Directors and one Acting Alternate were present providing a quorum.

II. Introductions and Review of SGMA in Santa Ynez River Valley Basin

Mr. Buelow announced names of phone and video attendees.

Mr. Buelow reviewed history of the Sustainable Groundwater Management Act (SGMA) requirements and what has been completed so far in the Santa Ynez River Basin including the creation of the three Groundwater Sustainability Agencies (GSAs) in the Basin (EMA, CMA, WMA), securing Department of Water Resources (DWR) Prop. 1 Grant (Grant) funding, hiring Consultants, coordinating efforts between the eight agencies participating in the three GSAs, establishing a Citizen Advisory Group (CAG) in each of the Management Areas of the Basin and Groundwater Sustainability Plan (GSP) development milestones.

III. Additions or Deletions, if any, to the Agenda

No additions or deletions were made.

IV. Public Comment

There was no public comment.

V. Review and Consider Approval of Minutes

GSA Committee Director Brooks submitted the minutes of the meetings of August 26, 2020 and October 21, 2020 for GSA Committee approval.

GSA Committee Director Nix made a MOTION to approve the minutes as received. GSA Committee Director Jordan seconded the motion and it passed unanimously by Roll Call vote.

VI. Receive WMA GSA financial update and approve WMA Warrant Lists

Mr. Buelow presented the financial reports of FY 2020-21 Periods 1 through 3 (through September 30, 2020) and the Warrant Lists for August and September 2020 for GSA Committee review.

WMA GSA Committee Director Jordan requested a report showing the cumulative grant reimbursements and member agency contributions.

The GSA Committee unanimously approved the August and September 2020 Warrant Lists as presented (one check, No. 1019) totaling \$86,842.56. GSA Committee Director Jordan made a MOTION to approve the warrant lists and financial reports as submitted. GSA Committee Director Brooks seconded the motion and it passed unanimously by Roll Call vote.

VII. Review and Approve Draft No. 2 SGMA Newsletter

Mr. Bill Buelow introduced Draft of SGMA Newsletter No. 2. He stated that staff and consultants were trying to get this newsletter finalized for mailed out in December 2020 by all Member Agencies in their December utility or water bills. He announced that after the first newsletter was mailed out by the same method, traffic to SantaYnezWater.org increased 200-300%. Discussion followed.

The WMA GSA Committee Directors unanimously recommended staff to release the draft of Newsletter No. 2 to WMA CAG for comment before distribution and to request Member Agencies to distribute final version in utility bills/mailers.

VIII. Receive Update on Aerial Electro-Magnetic Survey of CMA

Mr. Buelow announced that survey team has arrived in area, began survey of EMA on November 15. They are currently surveying the EMA and are expected to move toward

CMA and WMA next week and finish the WMA by Saturday, November 21, 2020. Discussion followed.

IX. Receive Update and Memo from WMA Citizen Advisory Group

Mr. Scott Williams presented a Memorandum from the WMA CAG, dated November 12, 2020 giving an update on the WMA Citizen Advisory Group (CAG) activities. The WMA CAG met November 12, 2020 via teleconference to review and discuss the Draft Hydrogeologic Conceptual Model (HCM). The WMA CAG provided comments on the HCM to staff and consultants for consideration. Discussion followed.

X. Receive Draft Groundwater Conditions Technical Memorandum (GCTM) and attend presentation on GCTM and Introduction to Sustainable Management Criteria (SMCs) from the Stetson Consultant Team

Ms. Maygan Cline (GeoSyntec), Mr. Curtis Lawler (Stetson Engineers), Mr. Miles McCammon (Stetson Engineers) and Ms. Madelyn Murray (Dudek) presented about the Groundwater Conditions Technical Memorandum (GCTM). They stated the Draft GCTM document is not available yet but will be posted online as soon as is completed and ready for public review. Discussion followed.

There was public comment, GSA Committee Member, consultant and staff discussion following the presentation.

- Bryan Bondy asked for clarification about levels of chloride concentrations on Seawater Intrusion slides. Mr. McCammon (Stetson) explained those levels and that the GSA Committee will need to determine what level would be considered “high” and the difference between groundwater and estuary locations.
- GSA Committee Director Jim Mosby expressed concern with regard to chloride levels by limiting water quality data to post-1980 and not considering earlier data from before the dam was built.
- GSA Committee Director Steve Jordan asked if the delta of unsaturated aquifers have been mapped. Mr. Lawler (Stetson) confirmed those areas will be mapped out.
- GSA Committee Director Jim Mosby expressed concern regarding GCTM Section D5 and if exportation of water before it enters the basin will be recognized in the water budget and model. Mr. Buelow and Mr. Lawler (Stetson) confirmed those exports are included in the Hydrogeologic Conceptual Model and will be part of the water budget.
- GSA Committee Director Steve Jordan expressed concern of water quality with regard to chloride. Mr. Lawler (Stetson) and Mr. Buelow explained theories and agreed should be looked into reason for the chloride levels.

The WMA GSA Committee Directors unanimously requested staff to post the Draft GCTM online when it is completed for a public review and comment period and directed staff to hold a Citizen Advisory Group meeting on the Draft GCTM.

XI. Consider holding “Special” WMA GSA Meetings on December 16, 2020 10:00 AM and January 27, 2021 10:00 AM

Mr. Buelow suggested the WMA GSA plan for Special Meetings on December 16, 2020 and January 27, 2021 consisting of technical content to address specific topics and would be treated more like a workshop. The meetings would be held on a Wednesday at 10:00 am via online video or phone conference due to COVID-19 restrictions.

Discussion followed.

XII. Next Regular WMA GSA Meeting: Wednesday, February 24, 2020, 10:00 AM

Mr. Buelow announced that the next WMA GSA Committee Meeting will be Wednesday, February 24, 2021, 10:00 am, location TBD. Due to COVID-19 restrictions, it may be held via teleconference call.

XIII. WMA GSA Committee requests and comments

Committee Director Brooks congratulated Mr. Matt Young on his new position as Manager of Santa Barbara County Water Agency.

Mr. Joe Barget thanked Mr. Young and Mr. Buelow for their efforts with getting SkyTEM survey.

Mr. Buelow announced that Mr. Loch Dreizler retired from Mission Hills CSD and welcomed Ms. Kayla Barker and Mr. Brad Hagemann, Interim General Manager, who are both staff with Mission Hills CSD.

XIV. Adjournment

GSA Committee Director Brooks adjourned the meeting at 12:21 pm.

Chris Brooks, Chairman

William J. Buelow, Secretary

DRAFT MEETING MINUTES

Groundwater Sustainability Agency for the Western Management Area in the Santa Ynez River Groundwater Basin January 27, 2021

A SPECIAL meeting of the Groundwater Sustainability Agency (GSA) for the Western Management Area (WMA) in the Santa Ynez River Groundwater Basin was held on Wednesday, 27 January 2021. As a result of the COVID-19 emergency and Governor Newsom's Executive Orders to protect public health by limiting public gatherings, and requiring social distancing, this meeting occurred solely via teleconference as authorized by and in furtherance of Executive Order Nos. N-29-20 and N-33-20.

GSA Committee Directors Present: Chris Brooks, Meighan Dietenhofer (Acting as Alternate), Steve Jordan, Kristin Worthley (Acting as Alternate)

Alternate GSA Committee Director Present: Katherine Stewart

Staff Present: Joe Barget, Bill Buelow, Amber Thompson, Kevin Walsh, Matt Young

Others Present: Bryan Bondy, Doug Circle, Maygan Cline (GeoSyntec), Connor Emrick, John Fio (EKI), Karen Kistler, Curtis Lawler (Stetson Engineers), Tim Nicely (GSI), Anita Regmi (DWR), Steve Slack (CDFW), Steven Valle and 1 member of the public

I. Call to Order and Roll Call

GSA Committee Director Brooks called the meeting to order at 10:01 am and asked Mr. Buelow to call roll. Two Committee Directors and two Acting Alternate Directors were present providing a quorum.

II. Introductions and Review of SGMA in Santa Ynez River Valley Basin

Mr. Buelow announced names of phone attendees.

Mr. Buelow reviewed history of the Sustainable Groundwater Management Act (SGMA) requirements and what has been completed so far in the Santa Ynez River Basin including: the creation of the three Groundwater Sustainability Agencies (GSAs) in the Basin (EMA, CMA, WMA), coordinating efforts between the eight agencies participating in the three GSAs, establishing a Citizen Advisory Group (CAG) in each of the Management Areas of the Basin and Groundwater Sustainability Plan (GSP) development milestones. The GSPs are due in January 2022. The WMA GSA Committee has so far prepared a Stakeholder Engagement Plan, a Data Management Plan, and a Draft Hydrogeologic Conceptual Model, which is currently open for public review and comment.

III. Additions or Deletions, if any, to the Agenda

No additions or deletions were made.

IV. Public Comment

There was no public comment.

V. Receive and Discuss Received Correspondence from Santa Ynez Water Group

Correspondence dated September 16, 2020 received from the Santa Ynez Water Group was introduced and discussed.

VI. Workshop on WMA Hydrogeologic Conceptual Model

Mr. Curtis Lawler, (Stetson Engineers) presented the January 2021 Stakeholder Workshop. They discussed the Groundwater Conditions Tech Memo, Water Budget Tech Memo, Groundwater Model Update and Sustainable Management Criteria example thresholds. They requested detailed comments and questions be made via the portal at SantaYnezWater.org.

There was public comment, GSA Committee Member, consultant, and staff discussion following each section of the presentation.

- GSA Committee Director Chris Brooks asked if SkyTEM survey data is in this Groundwater Model update. Curtis Lawler (Stetson) explained that the data is still being processed so it will need to be added in future refinements of the Groundwater Model due to deadlines in place to finish SGMA GSP in time.
- GSA Committee Director Chris Brooks asked if feedback on plan sections is being received through the web portal. Mr. Buelow replied that not many comments have been received in the portal. However, we anticipate more comments with more documents being open for public comment.
- GSA Committee Acting Alternate Director Meighan Dietenhofer asked about how we can increase public outreach. Mr. Buelow reported that a lot of public participation will happen during the CAG meetings that are open to the public in addition to Newsletter #2 which will be sent to public soon. He stated that we have seen an increase in public interest and traffic to the website since distributing the Newsletters. He asked everyone to call or email him if they have more ideas. Karen Kistler (CAG member) reiterated that the in-depth discussion of topics during the CAG meetings has been very helpful.
- Kristen Stewart asked about the process for creating the Minimum Threshold, and Measurable Objective for the Sustainable Management Criteria. Mr. Lawler (Stetson) explained that is work yet to be done and the plan is to have additional GSA meetings and CAG Meetings in 2021.
- Kristen Stewart asked why Land Subsidence is not an issue. Mr. Lawler (Stetson) explained the reason and gave WMA geological details.
- Kristen Stewart asked for clarification on when we expect to release Groundwater Sustainability Plan. Mr. Lawler (Stetson) discussed planned schedule in detail and stated the plan is to submit Draft GSP in January 2022.

- Bryan Bondy stated that the presentation he downloaded and reviewed is slightly different than the one presented today. He requested that if presentation slides change prior to the meeting that an email to Interested Parties list be sent announcing that changes were made. He said that he noticed on the Sustainable Management Criteria (SMC) slides were changed and now reflect a more conservative management. He asked, why? Mr. Lawler (Stetson) explained that the earlier version of presentation slides needed fixes for typos and better clarifications and that the graphs for SMC are only hypothetical examples only. The changes reflect more attainable levels and are not super highs and lows.
- Bryan Bondy asked if there had been significant and unreasonable levels in historical highs and lows? Mr. Lawler (Stetson) explained that the GSA committee and public need to decide what levels they decide are “Significant and unreasonable”. Bryan Bondy replied that historical lows may not actually be “Significant and unreasonable” that level could be lower. He hopes the GSAs avoid indicators that don’t control/constrain the resource and focus on controlling indicator and address issues relative to that controlling indicator.
- Steve Slack (CDFW) asked about thoroughness of the water monitoring program and if there were any data gaps that would need further monitoring. Mr. Lawler (Stetson) explained that he does not think so for the WMA since there are many wells with available data.
- Steve Slack (CDFW) asked if data includes shallow wells along river. Mr. Lawler (Stetson) stated that we will have to discuss further.

VII. Next Regular WMA GSA Meeting: Wednesday, February 24, 2021, 10:00 AM, location TBD

Mr. Buelow announced that the next WMA GSA Committee Meeting will be Wednesday, February 24, 2021, 10:00 AM, location TBD. Due to COVID-19 restrictions, it may be held via teleconference call.

VIII. WMA GSA Committee requests and comments

GSA Committee Director Brooks and GSA Committee Director Jordan asked Mr. Buelow for verification on quorum requirements for WMA GSA Committee meetings.

IX. Adjournment

GSA Committee Director Brooks adjourned the meeting at 11:42 am.

Chris Brooks, Chairman

William J. Buelow, Secretary

SYRWCD WMA
BALANCE SHEET
DECEMBER 31, 2020

Assets

Current Assets

Mechanics Bank #8301	\$208,547.15	

TOTAL Current Assets		208,547.15

TOTAL Assets		\$208,547.15
		=====

Liabilities AND Equity

TOTAL Liabilities		-----
		.00

Net Position

Retained Earnings	285,448.97	
Retained Earnings-Current Year	(76,901.82)	

TOTAL Net Position		208,547.15

TOTAL Liabilities AND Equity		\$208,547.15
		=====

SYRWCD WMA
 INCOME STATEMENT
 FOR THE 6 PERIODS ENDED DECEMBER 31, 2020

	QUARTER TO DATE ACTUAL	DATE PERCENT	YEAR TO DATE ACTUAL	DATE PERCENT
Revenue:				
Revenue				
Operating Assessments	\$104,612.28	56.9 %	171,301.32	68.3
Grant Revenue	79,337.17	43.1	79,337.17	31.7
	-----		-----	
TOTAL Revenue	183,949.45	100.0	250,638.49	100.0
	-----		-----	
TOTAL Revenue	183,949.45	100.0	250,638.49	100.0
	-----		-----	
Gross Profit	183,949.45	100.0	250,638.49	100.0
	-----		-----	
Expenses:				
Operating Expenses				
Outside Staff Support	150.00	.1	150.00	.1
	-----		-----	
TOTAL Operating Expenses	150.00	.1	150.00	.1
	-----		-----	
Consultants				
General Consultant	22.50	.0	22.50	.0
Stakeholder Engagement	1,312.32	.7	6,590.81	2.6
GSP - DMS	590.97	.3	602.72	.2
GSP - HCM	63,044.42	34.3	109,683.28	43.8
GSP - Water Budget, GW Models	101,550.28	55.2	136,016.24	54.3
GSP - Monitor/Measure	295.00	.2	724.50	.3
GSP - AEM Survey	73,688.75	40.1	73,688.75	29.4
	-----		-----	
TOTAL Consultants	240,504.24	130.7	327,328.80	130.6
	-----		-----	
Non Operating Expenses				
Misc Expense	30.00	.0	61.51	.0
	-----		-----	
TOTAL Non Operating Expenses	30.00	.0	61.51	.0
	-----		-----	
TOTAL Expenses	240,684.24	130.8	327,540.31	130.7
	-----		-----	
Net Income from Operations	(56,734.79)	(30.8)	(76,901.82)	(30.7)
	-----		-----	
Earnings before Income Tax	(56,734.79)	(30.8)	(76,901.82)	(30.7)
	-----		-----	
Net Income (Loss)	\$(56,734.79)	(30.8)%	(76,901.82)	(30.7)
	=====		=====	

**GROUNDWATER SUSTAINABILITY AGENCY FOR THE WESTERN MANAGEMENT AREA (WMA)
IN THE SANTA YNEZ RIVER VALLEY GROUNDWATER BASIN**

OCTOBER 2020 WARRANT LIST FOR COMMITTEE APPROVAL

<u>NUMBER</u>	<u>DATE</u>	<u>PAYEE</u>	<u>DESCRIPTION</u>	<u>AMOUNT</u>
WIRE TRANSFER	10/13/20	SkyTEM Canada (thru SYRWCD)	AEM Survey of CMA/WMA (50% of Inv #1 of 3)	\$ 36,624.00
BANK FEE	10/13/20	Mechanics Bank (thru SYRWCD)	50% of International Wire Transfer Bank Fee (actually charged \$15/GSA. \$5 used toward Dec. fee)	\$ 20.00
MONTH TOTAL				\$ 36,644.00

NOVEMBER 2020 WARRANT LIST FOR COMMITTEE APPROVAL

<u>NUMBER</u>	<u>DATE</u>	<u>PAYEE</u>	<u>DESCRIPTION</u>	<u>AMOUNT</u>
		VOID	VOID	
1020	11/23/20	Bartlett, Pringle & Wolf	Consulting - Grant Financial	\$ 22.50
1021	11/23/20	Stetson Engineers	August & September 2020 Engineering Service (Task Order #1)	\$ 124,730.89
1022	11/23/20	Santa Ynez River Water Conservation District	50% of costs for Legal Counsel & Public Notice regarding AEM Survey of CMA/WMA paid by SYRWCD	\$ 440.75
1023	11/23/20	Valley Bookkeeping	FY 2020-21 1st Quarter Bookkeeping (July, August, September 2020)	\$ 150.00
MONTH TOTAL				\$ 125,344.14

DECEMBER 2020 WARRANT LIST FOR COMMITTEE APPROVAL

<u>NUMBER</u>	<u>DATE</u>	<u>PAYEE</u>	<u>DESCRIPTION</u>	<u>AMOUNT</u>
WIRE TRANSFER	12/02/20	SkyTEM Canada (thru SYRWCD)	AEM Survey of CMA/WMA (50% of Inv #2 of 3)	\$ 36,624.00
BANK FEE	12/02/20	Mechanics Bank (thru SYRWCD)	50% of International Wire Transfer Bank Fee (actually charged \$15/GSA. \$5 paid from Oct. fee)	\$ 10.00
1024	12/17/20	Stetson Engineers	October 2020 Engineering Service (Task Order #1)	\$ 42,062.10
MONTH TOTAL				\$ 78,696.10

TOTAL THIS QUARTER: \$ 240,684.24



WMA

Santa Ynez River Valley Groundwater Basin
Western Management Area
Groundwater Sustainability Agency

February 2021

Stakeholder Workshop



DUDEK

Geosyntec
consultants

engineers | scientists | innovators

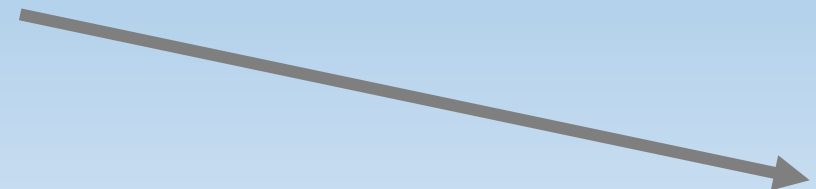
Housekeeping

- Recording the meeting for the purpose of capturing public feedback
- Recording can be made available upon request
- Opportunities for public feedback and questions throughout the workshop
- Public comments on the GCTM should be submitted to the website:



www.santaynezwater.org

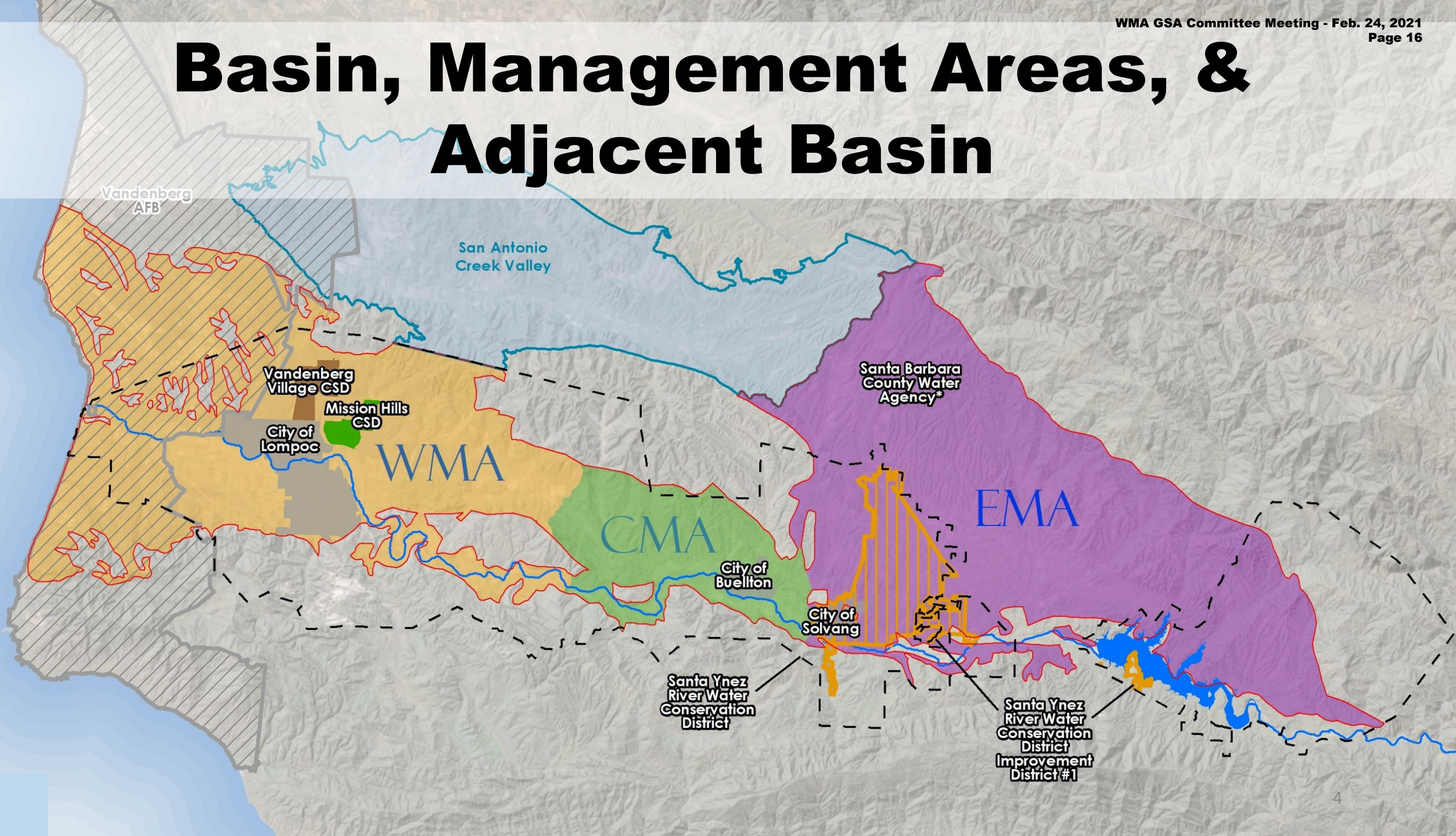
- Slide numbers in lower right



Agenda

1. Groundwater Conditions Tech Memo Available for Public Comment
2. Water Budget, Sustainable Yield, Safe Yield, and Overdraft Discussion
3. Groundwater Model Update
4. Way Ahead/ Schedule

Basin, Management Areas, & Adjacent Basin



Groundwater Conditions Technical Memo

Describes the current groundwater conditions within the WMA for sustainability indicators:

- Groundwater Elevations and Hydrographs
- Groundwater Storage
- Groundwater Quality
- Seawater Intrusion
- Land Subsidence
- Interconnected Surface Water and Groundwater Dependent Ecosystems
- Currently Available for Public Comment; Due by March 9, 2021

Demonstration of Comment Features on Santa Ynez River Groundwater Basin Communications Portal

- <https://www.santaynezwater.org/>
 - Site for entire Santa Ynez River Valley Groundwater Basin
 - WMA page

Groundwater Conditions Technical Memo

Questions?

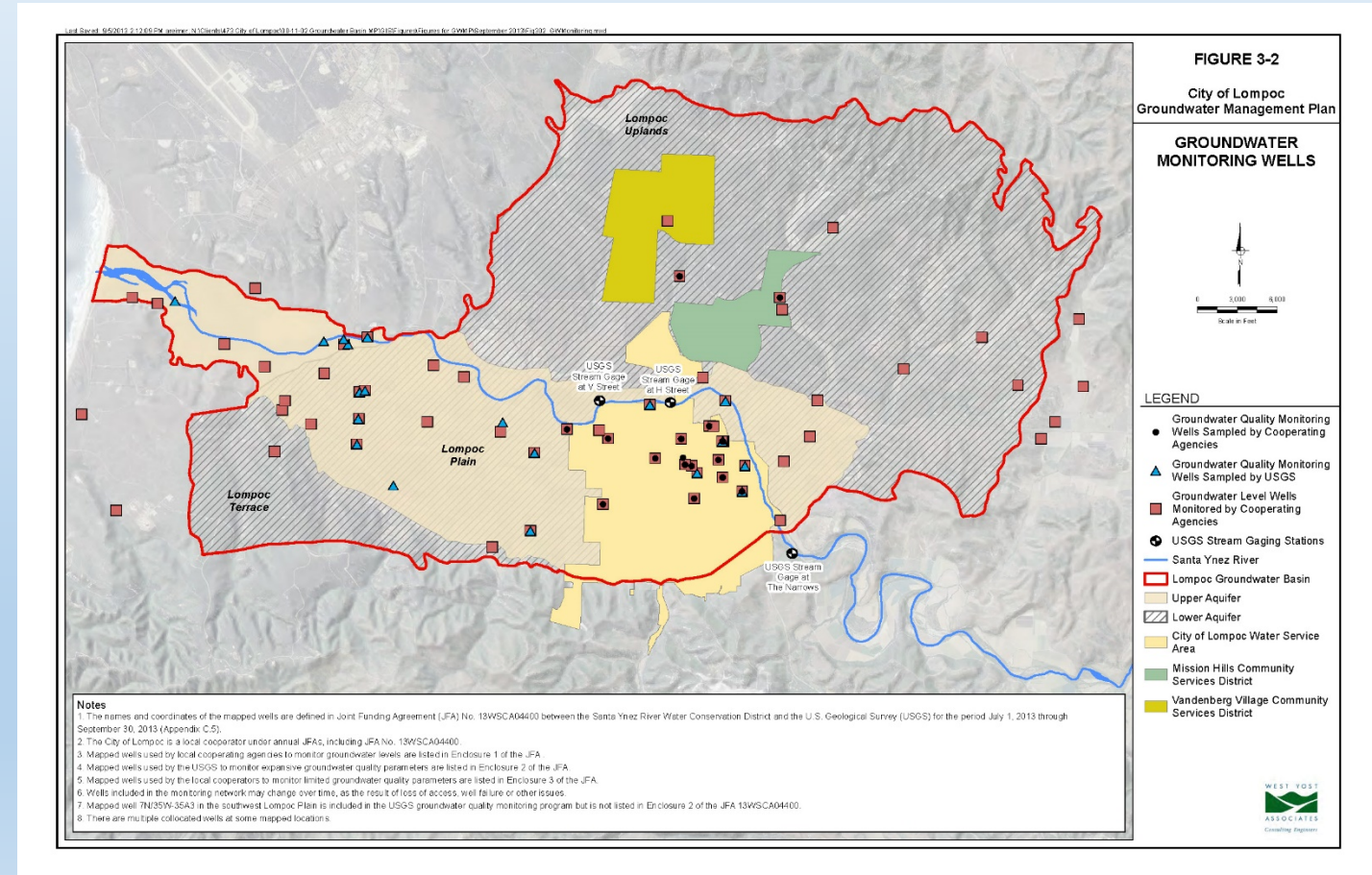
Sustainable Yield, “Safe” Yield, and Overdraft Discussion

- Previous Groundwater Management Legislation before SGMA
 - AB3030
- Previous Determinations of Safe Yield and Overdraft in the WMA
 - 1997 Lompoc Plain and Upland groundwater models by USGS and HCI
 - Lompoc Groundwater Management Plan 2013
 - County of Santa Barbara Groundwater Basins Summary Reports (2019, 2014)
 - Annual Engineering Survey and Report on Water Supply Conditions of the Santa Ynez River Water Conservation District
- SGMA’s Definitions of Sustainable Yield and Overdraft and Process to Determine

AB3030 1992

- 1992: Assembly Bill 3030 (AB3030) first established California's Groundwater Management Act (GMA).
- Authorized local agencies to prepare and implement groundwater management plans (GMPs) by following a uniform, systematic procedure.
- Agency participation was voluntary.
- Mitigation of conditions of overdraft:
 - AB3030 – Optional
 - SGMA -----→ Required

Lompoc Groundwater Management Plan 2013



Lompoc Groundwater Management Plan 2013

“The historical data for the Lompoc Groundwater Basin indicate that long-term groundwater levels are not declining and groundwater quality is not deteriorating with respect to groundwater use by the City, MHCSD, and VVCSD. Correspondingly, the Lompoc Groundwater Basin is not in overdraft. Nevertheless, that status is dependent on the quantity and quality of Santa Ynez River stream flow at the Narrows and Cachuma Project operations under State Board Order 89-18.”

County of Santa Barbara Groundwater Basins Status Report



**Public Works Department
Water Resources Division
Water Agency**

130 East Victoria Street
Santa Barbara, CA 93101
(805) 568-3440

October 14, 2014

Other Estimates of Overdraft for the WMA Aquifers

DRAFT
WATER RESOURCES MANAGEMENT PLAN
SANTA YNEZ RIVER WATER CONSERVATION DISTRICT

May 28, 1992

STETSON ENGINEERS INC.
San Rafael West Covina San Clemente
California

Mesa, Arizona

Pre-SGMA Estimates of Perennial (“Safe”) Yield

	AFY	USGS 1997	HCI 1997	SYRWCD Water Resources Management Plan 1992	County 2014
Estimated Perennial Yield (afy)					
Lompoc Plain		20,900	17,500	24,100	manged by SWRCB
Lompoc Upland			2,470	3,300	4,400
Santa Rita Upland		NA	NA	1,800	
2015 Groundwater Pumpage			<u>Perennial Yield Less 1-Year Pumping</u>		
Lompoc Plain	23,516	NA	NA	584	NA
Lompoc Upland	2,719		-249	581	-531
Santa Rita Upland	2,212		NA	-412	
1982-2018 Groundwater Average Pumpage			<u>Perennial Yield Less 37-year Pumping</u>		
Lompoc Plain	22,800	NA	NA	1,300	NA
Lompoc Upland	3,100		-630	200	0
Santa Rita Upland	1,300		NA	500	

Overdraft, Sustainable Yield, and SGMA

“Overdraft” (DWR Bulletin 118): Condition of a groundwater basin in which the amount of water withdrawn by pumping exceeds the amount of water that recharges the basin over a period of years, during which the water supply conditions approximate average conditions. Overdraft can be characterized by groundwater levels that decline over a period of years and never fully recover, even in wet years.

- Overdraft is similar in concept to a perennial yield, distinguishing long term decline versus the concept of overdrafting the basin in any single year or even a dry series of years.



Overdraft, Sustainable Yield, Overdraft and SGMA

“~~Safe~~ Sustainable yield” = Maximum quantity of water, calculated over a base period representative of long-term conditions in the basin and including any temporary surplus, that can be withdrawn annually from a groundwater supply without causing an undesirable result.

GSP Undesirable Results – SMCs

GSP Water Budget Analysis Time Period (W.Y. 1982 – W.Y. 2018)
representative of long-term conditions.

Preliminary WMA GSP Water Budget being refined through
groundwater model calibration on a monthly basis.

Water Budget Technical Memo

Questions?

Groundwater Model Update

Groundwater Model Uses and SGMA:

- Quantitative estimate of groundwater inflows and outflows to the WMA (informs the Water Budget),
- Considerations for seasonality and temporal changes to groundwater availability and recharge,
- Quantitative framework to estimate future potential scenarios, and
- Guide development of SMC thresholds.

Groundwater Modeling Steps:

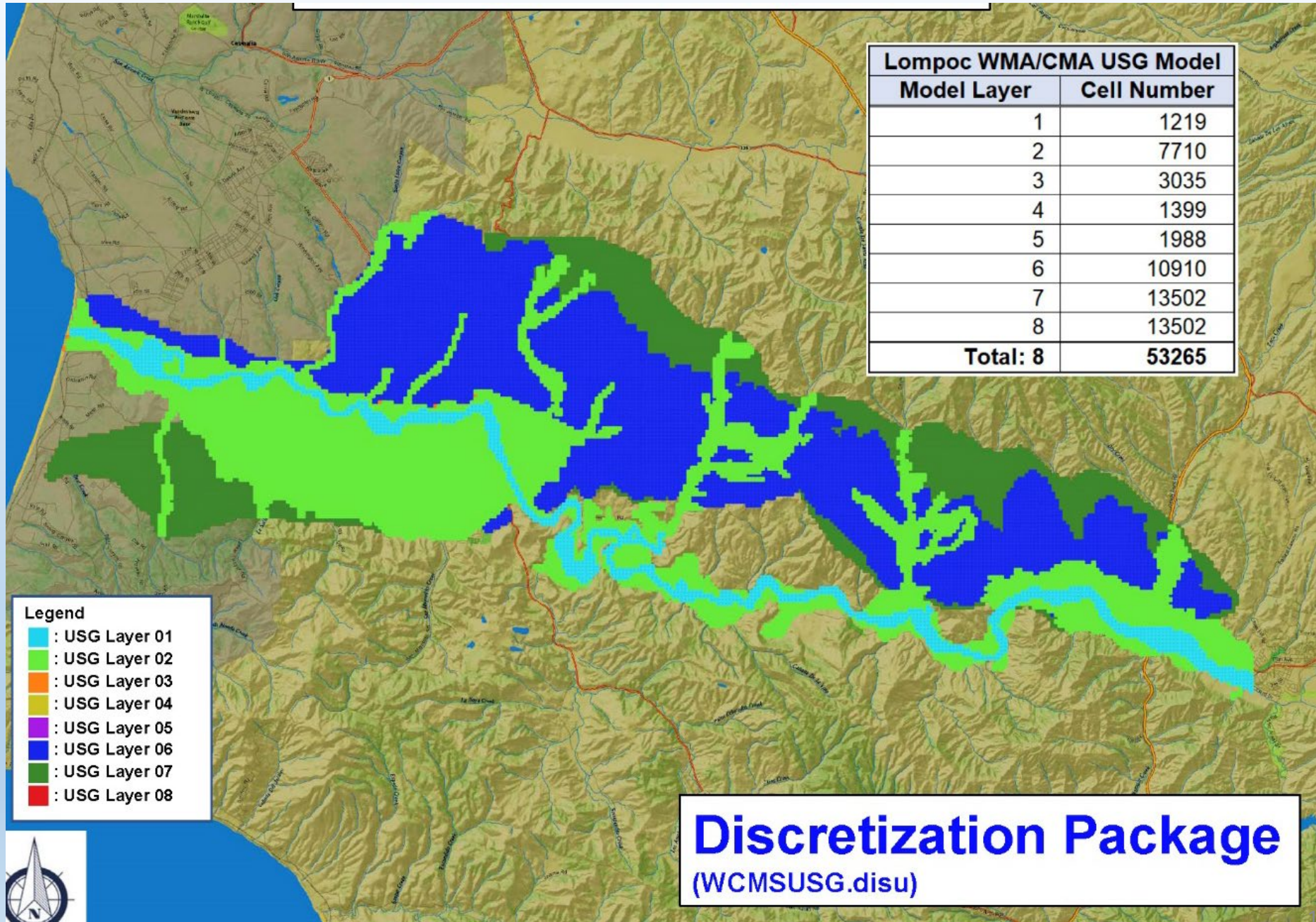
- Build
- Calibrate
- Run Scenarios

Model Grid

Model cells are 4 acres.

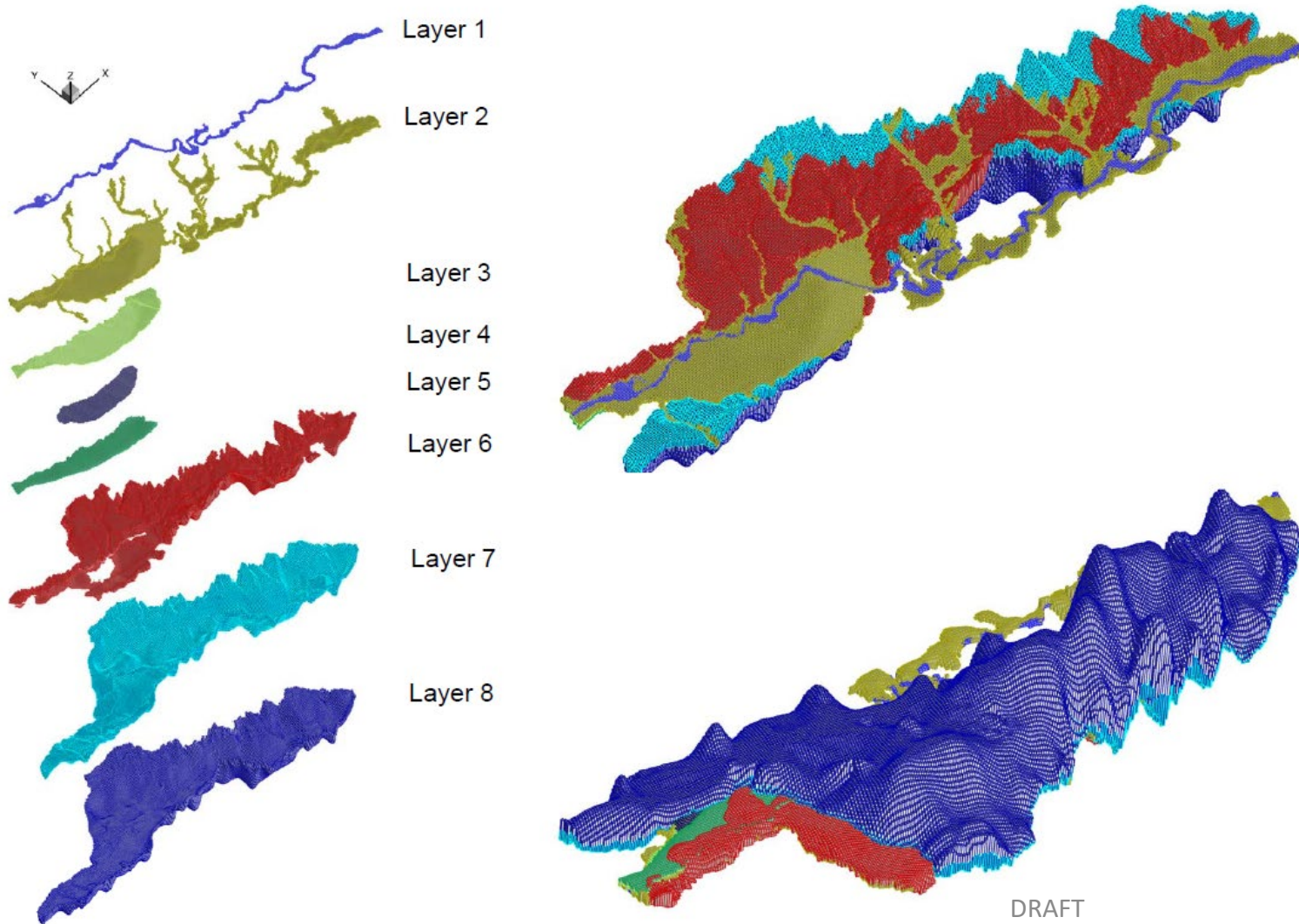
Monthly timestep.

Solvang to Pacific Ocean



Groundwater Model Update

Groundwater Model Layers



The 3D subsurface geologic model was used to export the various groundwater model layers.

Each layer correlates to a different geologic formation (or unit) and identified Principal Aquifer.

These layers are used as the basis for the groundwater model.

The model estimates groundwater flow velocities, recharge rates, and model scenarios to predict future groundwater supply and demand based on current groundwater uses.

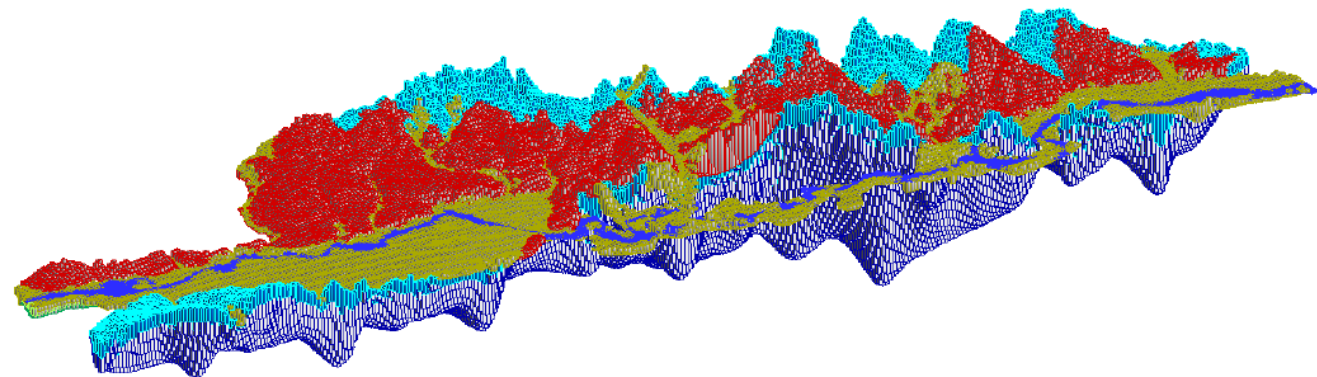
Groundwater Model Update

View of all
Groundwater
Model Layers
stacked
together

Layer Property Flow Package (WCMSUSG.Ipf)

Model Aquifer Properties

Model Layer	Kx = Ky (ft/day)	Kz (ft/day)	Ss (ft ⁻¹)	Sy	Remark
1	240	0.24	0.0001	0.1	Stream Deposits
2	55	0.055	0.0001	0.1	Upper Alluvium
3	35.5	0.0355	0.0001	0.1	Lower Alluvium
4	2.2	0.0022	0.0001	0.1	Silt
5	300	0.3	0.0001	0.1	Main Water Bearing Zone
6	15	0.015	0.0001	0.1	Older Alluvium
7	50	0.05	0.0001	0.1	Upper Careaga
8	10	0.01	0.0001	0.1	Lower Careaga

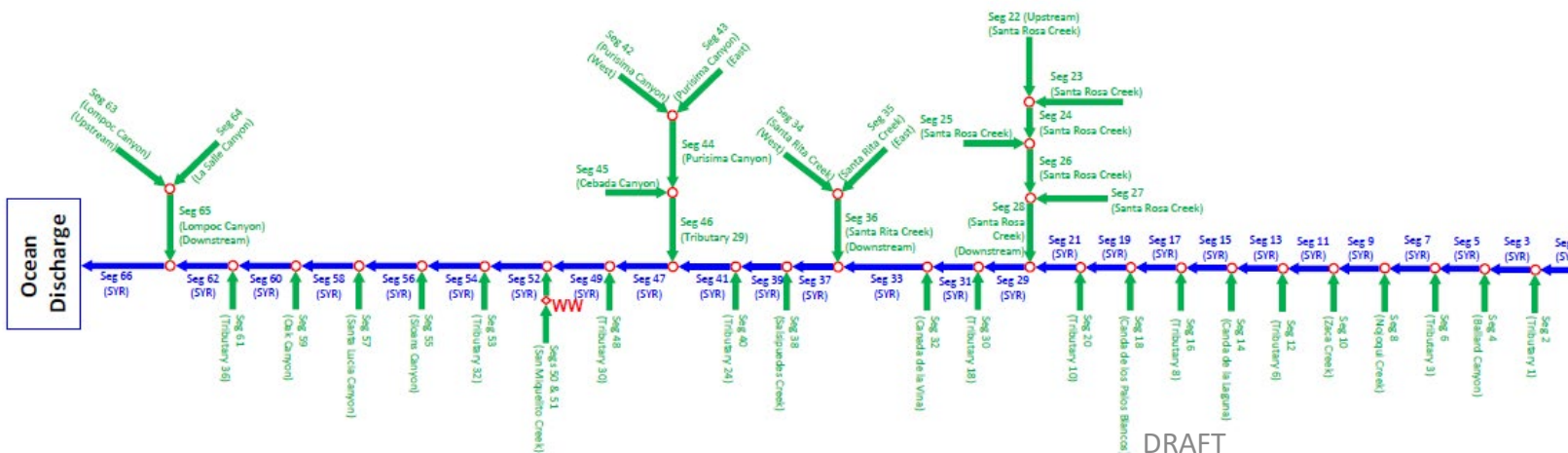
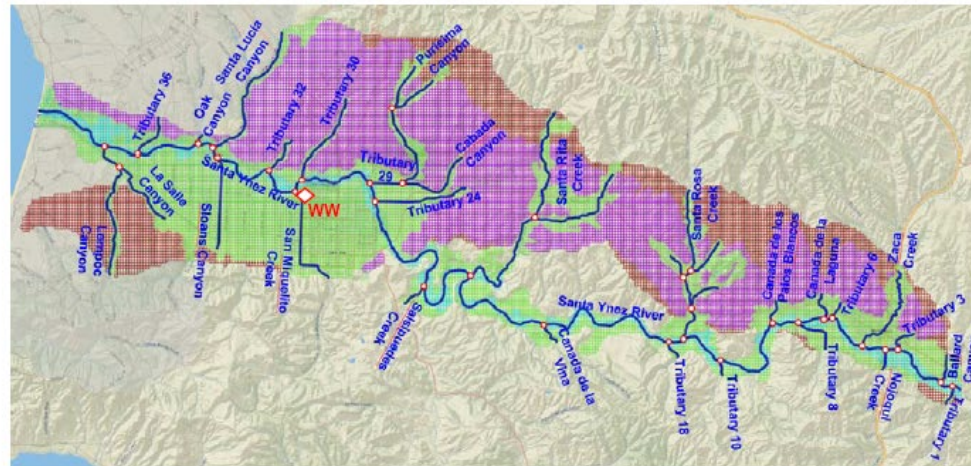


Aquifer properties for each model cells will be adjusted based on model cell locations during model calibration

Groundwater Model Update

Stream Flow Routing Package (WCMSUSG.sfr)

WMA/CMA USG Model
Stream Flow System



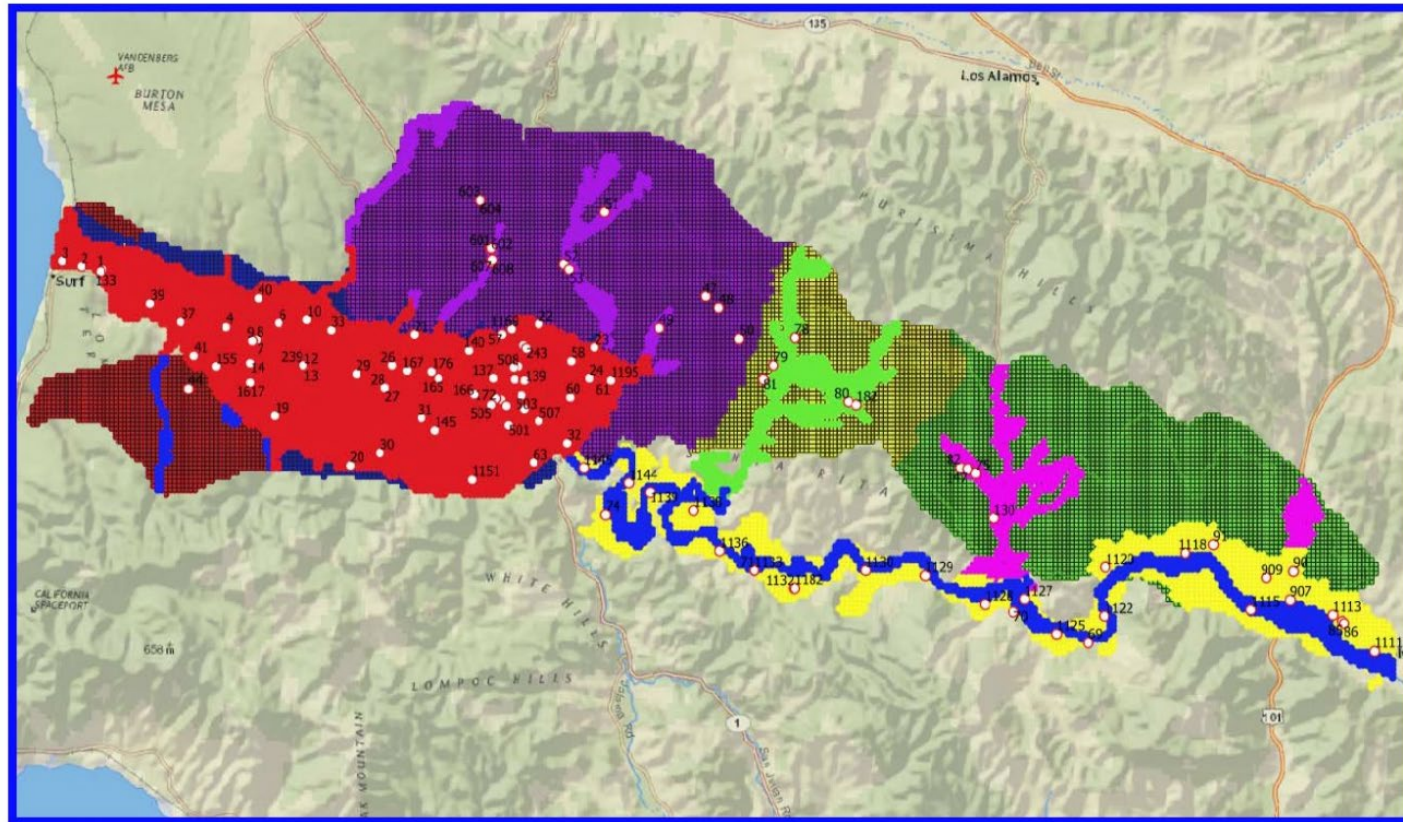
Visual representation of how stream flows are considered and integrated into the groundwater model.

Stream flows contribute to recharge of the identified Principal Aquifers.

Calibration time period
WY 1982-2018

Groundwater Model Update

Calibration Target



○ : 123 Selected Wells with long-term water level measurements

Water Budgets developed per subareas. For WMA: Santa Rita Upland, Lompoc Upland, Lompoc Terrace, Lompoc Plain, and Santa Ynez River Alluvium subareas

Calibration time period
WY 1982-2018

- Calibrated to Measured:
- Groundwater Levels/Contours
 - Streamflow gages
 - Intra/Inter Annual Variability

Groundwater Model Update

Questions?

The Way Ahead

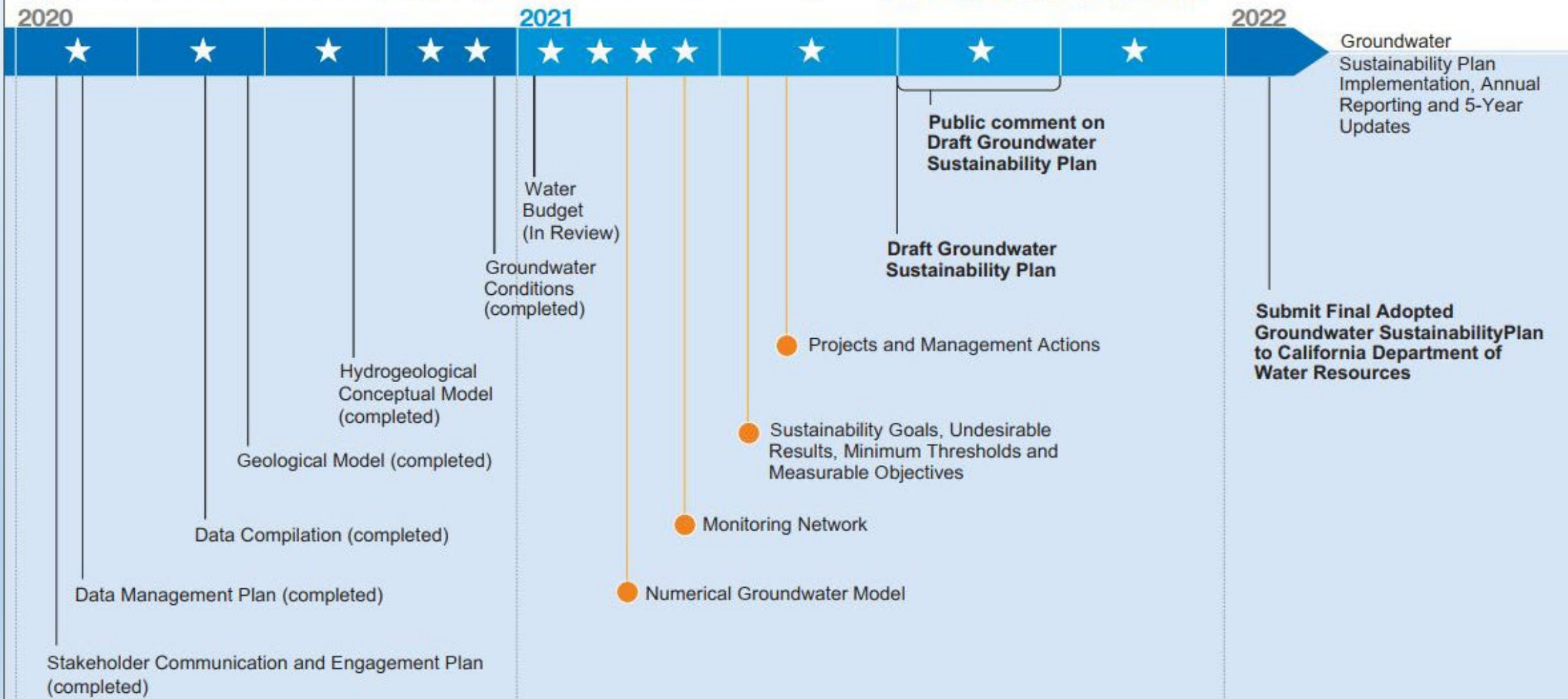
- ~~Complete the Groundwater Conditions Tech Memo~~
- Complete the Water Budget
- Complete the Groundwater Model
- Establish Monitoring Network
- Establish Sustainable Management Criteria Thresholds
- Identify Projects and Management Actions
- Release DRAFT GSP

The Way Ahead

Groundwater Sustainability Plan Development Milestones

☆ Groundwater Sustainability Agency Committee Public Meeting

● Technical Memorandum



DRAFT

Questions?

Comments can be submitted to the website:



www.santaynezwater.org

WESTERN MANAGEMENT AREA
MEMORANDUM

DATE: February 18, 2021
TO: WMA GSA Committee
FROM: Member Agency Staff
SUBJECT: Proposed Special and Regular Meeting Schedule

**Proposed Meeting Schedule for WMA GSA Committee through August 2021
All meeting Date/time Wednesday/10 AM, location TBD.**

<u>Date</u>	<u>Meeting Type</u>
03/24/2021	Special
04/28/2021	Special
05/26/2021	Regular
06/23/2021	Special
07/28/2021	Special
08/25/2021	Regular