Santa Ynez River Valley Groundwater Basin **Central Management Area** Groundwater Sustainability Agency

August 2020 **Status Update**





consultants

engineers | scientists | innovators

Agenda

- 1. SGMA & GSA Overview
- 2. Timeline & Milestones
- 3. Consultant Team Progress
- 4. Next Steps
- 5. Schedule
- 6. Questions



Updated Aug. 2020, includes WMA/CMA/EMA boundary updates.

Timeline and Milestones

Groundwater Sustainability Plan Development Milestones

🛠 Groundwater Sustainability Agency Committee Public Meeting

Technical Memorandum



Consultant Team Progress

Geosyntec[▷]

May 12, 2020

I. INTRODUCTION

or the Western and Central Management Areas (WMA and CMA, respectively ustainability Agencies¹ (GSAs) within the larger Santa Ynez River Valley Gro ater-bearing tendency of each unit but does not include an in-depth principal aquifer analys

derstanding of the physical cha deology, fund use, geologic units and structures, groundwater quality, principal groun idens, and principle aquistrds of the WMA and CMA portions of the SYRVGB ferstanding the regional worksing and many structures. quent technical studies of the basin, including presence, absence and correlation of princ equifers, identification of an appropriate monitoring network, manerical groundwater modeling and identification of projects and management actions in accordance with the Sustainabli focusionstor Management Acid (SGMA).

A detailed subsurface three-dimensional model of the reologic units and structur the WMA and CMA GSAs. The model is intended fur use as a visualization tool to communic the regional geologic setting to the WMA and CMA GSAs, as well as the pathies, in accorda-with SGMA. Additionally, the model will be used in concret with the Water Budget and the D Management System to identify potential data gaps within the basin where additional d



Orcutt ry 🔲 River Channel 📃 Paso Robles

Tertiary - Older than Monterey

Geological Model Tech Memo

DRAFT TECHNICA	L MEM	ORANDUM	
2171 E. Francisco Blvd., Suite K • TEL: (415) 457 (70) EAX: (415) 457 (7	San Rafael, Cali	fornia • 94901	
TEL: (415) 451-0701 FAX: (415) 451-18	os comersign	esonengmeers.com	And the second s
Energies inc.			
TO: CMA GSA	DATE:	August 15, 2020	a she to a to
FROM: Stetson Engineers/ Geosyntec/ Dudek	JOB NO:	2711-03	
RE: Hydrogeologic Conceptual Model (HCM)			1 Starten
			ma Contral
TABLE OF CONTENTS			1.3 . 2
HYDROGEOLOGIC CONCEPTUAL MODEL		5	Salah Calify 3
1. CENTRAL MANAGEMENT AREA EXTENTS AND SUBAR	LAS		
1.1.1. SANTA YNEZ RIVER ALLUVIUM SUBAREA			
1.1.2. BUELLTON UPLAND SUBAREA			
2. TOPOGRAPHY AND SURFACE WATER BODIES			The second s
2.1. DIRECT PRECIPITATION		9	
2.1.1. SOILS AND INFILTRATION		9	
2.2. WATERSHED AND SIGNIFICANT SURFACE WATER BE	ODIES		
2.2.1. RIVERS AND STREAMS.			Anna YEAR SHOLL
2.2.2. PACIFIC OCEAN			
2.2.5. WATER DIPORTS			
2.2.5. TREATED WASTEWATER SOURCES		13	
3. ADDITIONAL SURFACE WATER AND GROUNDWATER I	STERACTIONS.		
3.1. GROUNDWATER USE			
3.1.1. SANTA YNEZ RIVER ALLUVIUM SUBAREA			
3.1.2. LOMPOC PLAIN SUBAREA			
3.1.3. BURTON MESA SUBAREA			
3.1.4. LOMPOC TERRACE SUBAREA		16	
3.1.5. LOMPOC UPLAND SUBAREA			A State of the second sec
3.1.6. SANTA RITA UPLAND SUBAREA			and the second
3.2. AGRECULTURAL LANDS			Mar Strand all
3.5. PHREATOPHTTES			
3.5 DISCUARCE AREAS		18	
3.5.1. REPTON MESA SCHAPEA		18	
3.5.2. LOMPOC TERRACE SUBAREA			
3.5.3. LOMPOC PLAIN SUBAREA			
4. WMA AND ADJACENT GEOLOGY			
4.1. REGIONAL MOVEMENT AND SETTING			
4.2. MAPPED SURFACE GEOLOGY		20	

Hydrogeologic Conceptual Model



Sustainable Groundwater Management Quarterly Newsletter No. 1 June 2020

Santa Ynez River Valley Groundwater Basin (SYRVGB)

The Sustainable Groundwater Management Act (SGMA), signed into law in 2014, created a new framework for groundwater management in California. SGMA estab ished a new structure for local groundwater management through Groundwater Sustainability Agencies (GSAs). The SYRVGB has three management areas each with ned a new structure for local groundwater management torougn teir own GSA Committee comprised of local participating Agencie Western Management Area (WMA) GSA Committee Santa Ynez River Water Conservation District • City of Lompoc heir own GSA Committee

Each GSA Committee is preparing its own Groundwater Sustainability Plan (GSP) that will describe the path to groundwater sustainability. The GSPs will determine how much groundwater can be used in the future and could include restrictions on pumping.

Central Management Area (CMA) GSA Committee All three GSPs will be completed in early 2022. Progress updates will be given in each Santa Ynez River Water Conservation District • City of Buellton nta Barbara County Water Agency astern Management Area (EMA) GSA Committee quarterly GSA Committee meeting and draft documents will be available for public revie and comment on the website (www.SantaYnezWater.org). Participation by members of Santa Ynez River Water Conservation District • City of Solvang the community in developing the GSPs is important and each of the GSA Committees h lopted an outreach and engagement plan to guide the public participation process. Santa Barbara County Water Agency . Santa Ynez River Water



Outreach Newsletter



hapters of the GSP will describe the hydrogeologic conceptual model, management dination, past and previous management plans, and groundwater conditions in the SYRVGB.

TABLE OF CONTENTS

TO:

WATER BUDGET LAND AREA AND BOUNDARIES SANTA YNEZ RIVER GROUNDWATER BASIN SANTA YNEZ RIVER WATERSHED

Mission Hills CSD • Vandenberg Village CSD

Santa Barbara County Water Agency

- NEIGHBORING GROUNDWATER BOUNDARIES WATER BUDGET COMPONENTS
- INTER-BASIN FLOWS

2.1.1. STATE WATER PROJECT 2.1.2. SURFACE WATER INFLOW AND OUTFLOW

2.1.3. GROUNDWATER INFLOW AND OUTFLOW 2.2. GROUNDWATER DISCHARGE/PUMPIN



DRAFT Water Budget



INTRODUCTION

un describes the first phase of data compilation collected and entered in to the data management system (DMS) developed for the Santa Ynez River Valley Groundwater Basia (SYRVGB) Western Management Area (WMA) and Central Management Area (CMA). This is a first step in developing and implementing a Sustainable Groundwater Management Act SGMA) plan for these portions of the SYRVGB. It is anticipated that there will be addition phases of data that will be entered into the DMS. After each phase of data entry, this memorandum will be undated.

A description of the DMS was provided in the Data Management Plan (DMP), which included overall goals of the DMS, a description of the DMS platform, and how this addresses the need of SGMA. This memorandum provides a snapshot view of data collected and entered into the DMS as of March 2020.



DMS Tech Memo & Data Collection



Modeling conference calls were had to streamline model conversion from FEMFLOW3D into MODFLOW-USG. Digital land use maps were compiled for 17 years (e n categories were defineated by model cell for assigning recharge and

Pamping distribution was developed for 187 alluvial irrigation wells, on wells, and 4 Penitentiary wells. Assigned pumping by mpoc. Mission Hills, and Vandenberg Village wells. [Figu

Statum Engineers Inc. 9/1/2020 Longree Model Status



Groundwater Modeling

Geologic Model Technical Memorandum

Section Locations





- Released for CAG and public review
- Comments considered and \bullet incorporated
- DRAFT Final submitted to the **GSA** committee
- SkyTEM data may be used later to refine the model



Legend

Outreach & Engagement

Sustainable Groundwater Management Quarterly Newsletter No. 1 June 2020

Santa Ynez River Valley Groundwater Basin (SYRVGB)

The Sustainable Groundwater Management Act (SGMA), signed into law in 2014, created a new framework for groundwater management in California. SGMA established a new structure for local groundwater management through Groundwater Sustainability Agencies (GSAs). The SYRVGB has three management areas each with their own GSA Committee comprised of local participating Agencies:

Western Management Area (WMA) GSA Committee

- Santa Ynez River Water Conservation District
 City of Lompoc
- Mission Hills CSD
 Vandenberg Village CSD
- Santa Barbara County Water Agency
- Central Management Area (CMA) GSA Committee • Santa Ynez River Water Conservation District • City of Buellton
- Santa Ynez River Water Conservation District
 City of Buelli
 Santa Barbara County Water Agency
- Eastern Management Area (EMA) GSA Committee
- Santa Ynez River Water Conservation District City of Solvang
- Santa Barbara County Water Agency
 Santa Ynez River Water
- Conservation District, Improvement District No. 1

Each GSA Committee is preparing its own Groundwater Sustainability Plan (GSP) that will describe the path to groundwater sustainability. The GSPs will determine how much groundwater can be used in the future and could include restrictions on pumping.

All three GSPs will be completed in early 2022. Progress updates will be given in each quarterly GSA Committee meeting and draft documents will be available for public review and comment on the website (*www.SantaYnezWater.org*). Participation by members of the community in developing the GSPs is important and each of the GSA Committees has adopted an outreach and engagement plan to guide the public participation process.



First Newsletter Created

- English and Spanish versions
- CAG feedback
- Distributed in Water Bills
- Available online at: SantaYnezWater.org and GSA member agency websites

FAQs also developed and available on SantaYnezWater.org

DMS Tech Memo and Data Update





RE: DRAFT Phase I Data Compilation for the Santa Ynez River Groundwater Basin Data Management System (WMA and CMA)

INTRODUCTION

This memorahum disorbise the first phase of data compliation collected and entered in to the data management system (IDM) does/oped for the Stati Yae Eliver's buffy Commolester Bhang (SYRVGB) Workern Management Area (WMA) and Central Management Area (CMA). This is a first step in developing and implementing a Statistable Groundstate Management Area (SVRA) plan for bear portion of the SYRVGB). It is incirculated that three will be Additional phases of data that will be entered into the DMS. After each phase of data entry, this memorahum will be updated.

A description of the DMS was provided in the Data Management Plan (DMP), which included overall guals of the DMS, a description of the DMS platform, and how this addresses the needs of SGMA. This memorandum provides a snapshot view of data collected and entered into the DMS as of Mark 2020.

*Buellton Uplands well pictured DMS Tech Memo released for CAG and public review. Comments considered and DRAFT Final submitted to GSA.

DMS Update:

- Collected field data incorporated
- Groundwater levels for USBR wells updated through June 2020
- Review data provided by the SYRWCD (Parent District)

Hydrogeologic Conceptual Model (HCM)

Describes the conceptual understanding of the general physical characteristics of the groundwater basin.

The Hydrogeological Conceptual Model consists of:

•Written narrative description

•Graphics that clearly portray the geographic and climatic setting, regional geology and structures, groundwater basin geometry, general groundwater water quality, and consumptive water uses in the basin.

Reference: BMP-3: Hydrogeologic Conceptual Model

Hydrogeologic Conceptual Model (HCM)

æ	DRAFT TECHNICAL	Мем	ORANDUM
STETSO ENGINEERS IN	2171 E. Francisco Blvd., Suite K • Sa TEL: (415) 457-0701 FAX: (415) 457-1638	n Rafael, Calif e-mail: sr@st	ornia • 94901 etsonengineers.com
TO:	CMA GSA	DATE:	August 15, 2020
FROM:	Stetson Engineers/ Geosyntec/ Dudek	JOB NO:	2711-03
RE-	Hydrogeologic Concentual Model (HCM)		

TABLE OF CONTENTS

HYDROGEOLOGIC CONCEPTUAL MODEL	5
1. CENTRAL MANAGEMENT AREA EXTENTS AND SUBAREAS	6
1.1. CMA SUBAREAS	7
1.1.1. SANTA YNEZ RIVER ALLUVIUM SUBAREA	7
1.1.2. BUELLTON UPLAND SUBAREA	8
2. TOPOGRAPHY AND SURFACE WATER BODIES	8
2.1. DIRECT PRECIPITATION	9
2.1.1. SOILS AND INFILTRATION	9
2.2. WATERSHED AND SIGNIFICANT SURFACE WATER BODIES	10
2.2.1. RIVERS AND STREAMS	10
2.2.2. PACIFIC OCEAN	11
2.2.3. WATER IMPORTS	12
2.2.4. WATER EXPORTS	13
2.2.5. TREATED WASTEWATER SOURCES	13
3. ADDITIONAL SURFACE WATER AND GROUNDWATER INTERACTIONS	14
3.1. GROUNDWATER USE	14
3.1.1. SANTA YNEZ RIVER ALLUVIUM SUBAREA	15
3.1.2. LOMPOC PLAIN SUBAREA	15
3.1.3. BURTON MESA SUBAREA	16
3.1.4. LOMPOC TERRACE SUBAREA	16
3.1.5. LOMPOC UPLAND SUBAREA	16
3.1.6. SANTA RITA UPLAND SUBAREA	16
3.2. AGRICULTURAL LANDS	17
3.3. PHREATOPHYTES	17
3.4. RECHARGE AREAS	18
3.5. DISCHARGE AREAS	18
3.5.1. BURTON MESA SUBAREA	18
3.5.2. LOMPOC TERRACE SUBAREA	19
3.5.3. LOMPOC PLAIN SUBAREA	19
4. WMA AND ADJACENT GEOLOGY	19
4.1. REGIONAL MOVEMENT AND SETTING	20
4.2. MAPPED SURFACE GEOLOGY	20

Page 1

Hydrogeologic Conceptual Model

DRAFT HCM released to Staff

HCM Sections:

- CMA Extents and Subareas
- Topography and Surface Water Bodies
- Surface Water and Groundwater Interactions
- Regional Geology
- Principal Aquifers & Aquitards

HCM CMA Subareas

YNEZ

RIVER ALLUVIUM

101

HCM provides descriptions of the CMA Subareas and how they contribute to groundwater and surface water presence and/or absence, flow, and storage

Santa Ynez River

BUELLTON UPLAND

HCM CMA Soil Infiltration

River

Buellto

Santa Ynez

Santo Ynez River

A: High Infiltration Rate B: Moderate Infiltration Rate

C: Slow Infiltration Rate

D: Very Slow Infiltration Rate

A/D

No Data Available

🗙 Centra

Central Management Area

HCM presents the various soil types within the CMA and how they contribute to groundwater recharge and return flows.

The various soil types contributions to recharge are quantified in the Water Budget.

246 City of Solvang

HCM CMA Agriculture Areas

Santa Ynez River

In accordance with SGMA, the HCM evaluates various consumptive water uses and potential return flows within the CMA

101

Central Management Area LandlQ Active Agriculture (2016) Citrus/Subtropical

Field Crops

Grain and Hay Pasture

Truck Crops Vineyard

Deciduous Fruits and Nut

*2016 agriculture areas shown as provided by DWR

Hydrogeologic Conceptual Model (HCM)

1		DRAFT TECHNICAL 2171 E. Francisco Blvd., Suite K * Sar TEL: (415) 457-0701 FAX: (415) 457-1638	MEMC a Rafael, Califo e-mail: sr@ster	D R A N D U M rnia • 94901 tsonengineers.com
÷	TO:	cMA GSA	DATE:	August 13, 2020
	FROM:	Stetson Engineers/ Geosyntec/ Dudek	JOB NO:	2710-03
	RE:	Hydrogeologic Conceptual Model (HCM)		

TABLE OF CONTENTS

HYDI	ROGEOLOGIC CONCEPTUAL MODEL	6
1.	WESTERN MANAGEMENT AREA EXTENTS AND SUBAREAS	
1.1.	WMA BOUNDARIES	
1.2.	WMA SUBAREAS	8
1.2.1.	SANTA YNEZ RIVER ALLUVIUM SUBAREA	9
1.2.2.	LOMPOC PLAIN SUBAREA	9
1.2.3.	BURTON MESA SUBARFA	
1.2.4.	LOMPOC UPLAND SUBARFA	
1.2.5	SANTA RITA UPI AND SUBARFA	11
2.	TOPOGRAPHY AND SURFACE WATER BODIES.	
2.1.	DIRECT PRECIPITATION	12
2.1.1	SOILS AND INFILTRATION	12
2.2.	RECHARGE AREAS	13
2.3	WATERSHED AND SIGNIFICANT SURFACE WATER BODIES	13
231	RIVERS AND STREAMS	14
2.3.2.	PACIFIC OCEAN	
A.	LONPOC PLAIN	
B.	BURTON MESA	
C.	LOMPOC TERRACE	
2.3.3.	WATER IMPORTS	
2.3.4.	WATER EXPORTS	
2.3.5.	TREATED WASTEWATER SOURCES	
3.	ADDITIONAL SURFACE WATER AND GROUNDWATER INTERACTIONS	
3.1.	PRIMARY USE OF GROUNDWATER	
3.1.1.	SANTA YNEZ RIVER ALLUVIUM SUBAREA	
3.1.2	LOMPOC PLAIN SUBARFA	19
3.1.3.	BURTON MESA SUBAREA	
3.1.4.	LOMPOC TERRACE SUBAREA	
3.1.5.	LOMPOC UPLAND SUBAREA	
3.1.6.	SANTA RITA UPLAND SUBAREA	
3.2.	AGRICULTURAL LANDS	
Hydro	zeologic Conceptual Model	Page 1

- DRAFT HCM released to Staff \bullet in Aug
- Release to GSA committee at next meeting
- Plan to workshop the \bullet information for the GSA, public and CAG

Water Budget Technical Memo (TM)

The accounting and characterization of spatial and temporal distribution of inflows and outflows to a watershed, groundwater basin, or management area.

<u>Key Water Budget components:</u>•Total surface water entering and leaving the basin

•Inflows and outflows to the groundwater system

•The annual change in groundwater storage volume

Reference: BMP-4: Water Budget



CENTRAL MANAGEMENT AREA OF THE SANTA YNEZ RIVER VALLEY GROUNDWATER BASIN

> This DRAFT Water Budget Technical Memorandum is written for inclusion as a chapter in the Santa Ynez River Valley Groundwater Basin Groundwater Sustainability Plan ("GSP") in accordance with the Sustainable Groundwater Management Act ("SGMA"). The GSP is an interagency collaboration of eight public agencies involved in water resources in Santa Ynez River Valley Groundwater Basin ("SYRVGB"). The SYRVGB is divided into three management areas: Western Management Area ("WMA"), Central Management Area ("CMA"), and Eastern Management Area ("WMA"), Central Management Area ("CMA"), and Eastern Management Area ("WMA"), Central Management Area ("CMA"), and Eastern Management Area ("EMA") (Central Management Area ("CMA"), and Eastern Management Area ("EMA") (Central Management Area ("CMA"), and Eastern Management Area ("CMA"), Central Management Area ("CMA"), and Eastern Management Area ("CMA"), Central Management Area ("CMA"), and Eastern Management Area ("CMA"), Central Management Area ("CMA"), and Eastern Management Area ("CMA"), Central Management Area ("CMA"), and Eastern Management Area ("EMA"), Central Management Area ("CMA"), Groundwater Sustainability Agency ("GSA") in cooperation with CMA and EMA GSAs. Other chapters of the GSP will describe the hydrogeologic conceptual model, management coordination, neutral previous management plans, and groundwater Conditions in the SYRVGB.

TABLE OF CONTENTS

- 1. WATER BUDGET LAND AREA AND BOUNDARIES
- 1.1. SANTA YNEZ RIVER GROUNDWATER BASIN
- 1.2. SANTA YNEZ RIVER WATERSHED
- 1.3. NEIGHBORING GROUNDWATER BOUNDARIES
- 2. WATER BUDGET COMPONENTS
- 2.1. INTER-BASIN FLOWS 2.1.1. STATE WATER PROJECT
- 2.1.1. STATE WATER PROJECT 2.1.2. SURFACE WATER INFLOW AND OUTFLOW
- 2.1.2. SURFACE WATER INFLOW AND OUTFLOW 2.1.3. GROUNDWATER INFLOW AND OUTFLOW
- 2.1.3. GROUNDWATER INFLOW AND OUTFLOW 2.2. GROUNDWATER DISCHARGE/PUMPING

Water Budget TM Watershed and Water Exports





Water Budget TM

a	DRAFT TECHNICAL	L MEM	ORANDUM
STETSO	2171 E. Francisco Blvd., Suite K - TEL: (415) 457-0701 FAX: (415) 457-10	San Rafael, Calif 538 e-mail: sr@st	ornia • 94901 etsonengineers.com
TO:	WMA GSA	DATE:	August 13, 2020
FROM:	Stetson Engineers/ Geosyntec/ Dudek	JOB NO:	2710-03
RE:	Hydrogeologic Conceptual Model (HCM)		

TABLE OF CONTENTS

HYDI	ROGEOLOGIC CONCEPTUAL MODEL	6
1.	WESTERN MANAGEMENT AREA EXTENTS AND SUBAREAS	
1.1.	WMA BOUNDARIES	
1.2.	WMA SUBAREAS	8
1.2.1.	SANTA YNEZ RIVER ALLUVIUM SUBAREA	9
1.2.2.	LOMPOC PLAIN SUBAREA	9
1.2.3.	BURTON MESA SUBARFA	
1.2.4.	LOMPOC UPLAND SUBARFA	
1.2.5	SANTA RITA UPI AND SUBARFA	11
2.	TOPOGRAPHY AND SURFACE WATER BODIES.	
2.1.	DIRECT PRECIPITATION	12
2.1.1	SOUS AND INFILTRATION	12
2.2.	RECHARGE AREAS	13
2.3	WATERSHED AND SIGNIFICANT SURFACE WATER BODIES	13
231	RIVERS AND STREAMS	14
2.3.2.	PACIFIC OCEAN	
A.	LONPOC PLAIN	
B.	BURTON MESA	
C.	LOMPOC TERRACE	
2.3.3.	WATER IMPORTS	
2.3.4.	WATER EXPORTS	
2.3.5.	TREATED WASTEWATER SOURCES	
3.	ADDITIONAL SURFACE WATER AND GROUNDWATER INTERACTIONS	
3.1.	PRIMARY USE OF GROUNDWATER	
3.1.1.	SANTA YNEZ RIVER ALLUVIUM SUBAREA	
3.1.2	LOMPOC PLAIN SUBARFA	19
3.1.3.	BURTON MESA SUBAREA	
3.1.4.	LOMPOC TERRACE SUBAREA	
3.1.5.	LOMPOC UPLAND SUBAREA	
3.1.6.	SANTA RITA UPLAND SUBAREA	
3.2.	AGRICULTURAL LANDS	
Hydro	zeologic Conceptual Model	Page 1

- Plan to release DRAFT Water • Budget TM to Staff in Sep
- Plan to release to GSA committee at Oct meeting
- Plan to workshop the \bullet information for the GSA, public and CAG

Groundwater Conditions TM

a	DRAFT TECHNICA	L MEM	ORANDUM
STIETISO INGINEERS IN	2171 E. Francisco Blvd., Suite K TEL: (415) 457-0701 FAX: (415) 457-16:	• San Rafael, Calif 88 e-mail: milesm@	ornia • 94901 @stetsonengineers.com
TO:	CMA GSA	DATE:	August 13, 2020
FROM:	Stetson Engineers/ Geosyntec/ Dudek	JOB NO:	2711-03
RE:	Groundwater Conditions Memo		

TABLE OF CONTENTS

GROUNDWATER CONDITIONS	
1. AQUFIER HYDRUALIC PROPERTIES	
1.1. AQUIFER HYDRAULIC CONDUCTIVITY	
1.2. AQUIFER STORATIVITY	
2. GROUNDWATER LEVELS AND STORAGE	
3. GENERAL SURFACE-WATER QUALITY	
4. GENERAL GROUNDWATER QUALITY	
4.1. WATERBOARD REPORTS	
4.2. MAJOR WATER CHEMISTRY	
4.2.1. TOTAL DISSOLVED SOLIDS (TDS)	
4.2.2. CHLORIDE	······
4.2.3. SODIUM	
4.2.4. NITRATE	
4.2.5. PIPER DIAGRAMS	······
4.3. EVALUATION OF CURRENT SEAWATER INTRUSION	······
5. GROUNDWATER CONTAMINATION AND PLUMES	
6. LAND SUBSIDENCE	

Page 1

Hydrogeologic Conceptual Model

DRAFT document in progress, discusses:

- Principal aquifers and water levels
- Aquifer properties and storage
- Groundwater quality
- Surface water
- Seawater intrusion
- Land subsidence

"description of current and historical groundwater conditions in the basin [...], based on the best available information" 23 CCR § 354.14(a)

Groundwater Model

Conversion of FEMFLOW model into modern MODFLOW-USG of existing model:

- Node structure converted into MODFLOW-USGS
- Hydraulic properties converted
 over

Next Steps

Special GSA Meeting / Workshop in October to review DRAFT documents:

- Hydrogeologic Conceptual Model Technical Memo
- Water Budget Technical Memo

Regularly scheduled GSA Meeting / Workshop in November to review:

- Groundwater Conditions Technical Memo
- Groundwater Modeling Technical Memo

Groundwater modeling construction, calibration and simulations

Stars denote items for public engagement and opportunities to review and provide comment

The Way Ahead

Groundwater Sustainability Plan Development Milestones

Groundwater Sustainability Agency Committee Public Meeting

Technical Memorandum



