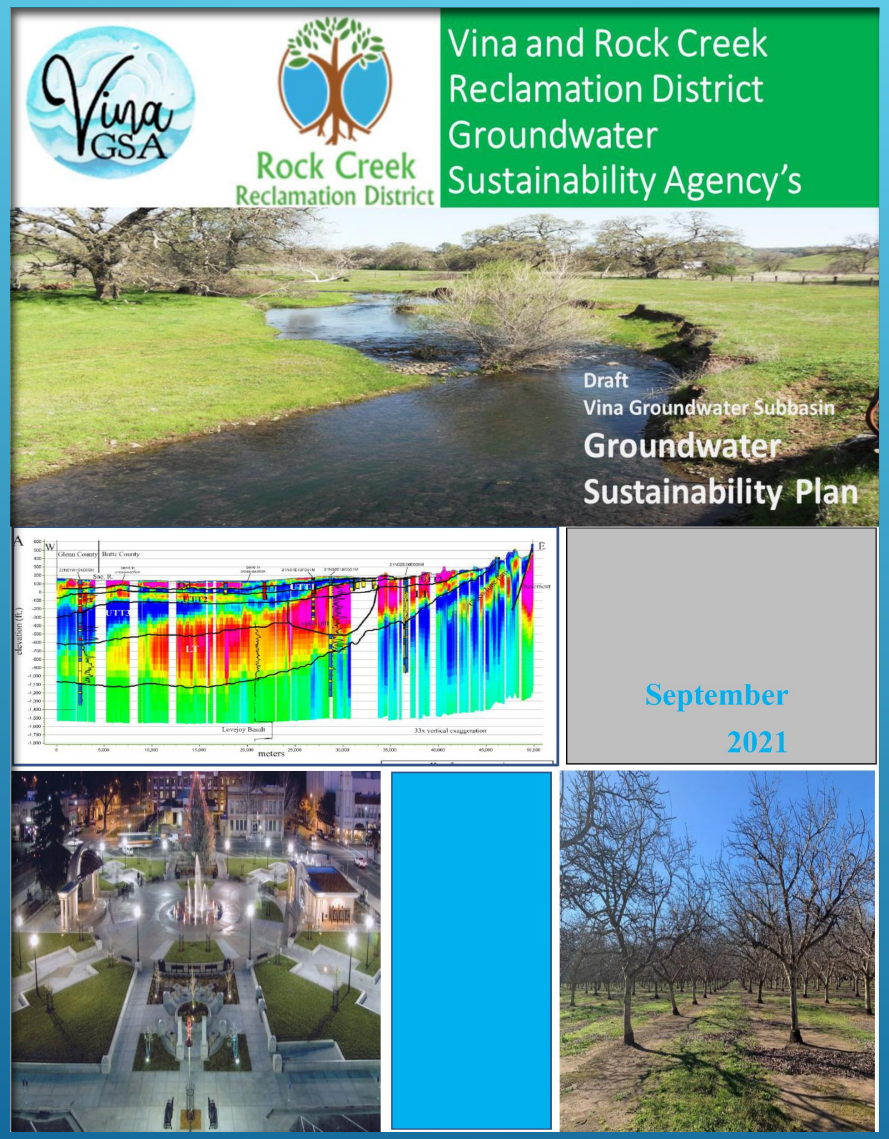
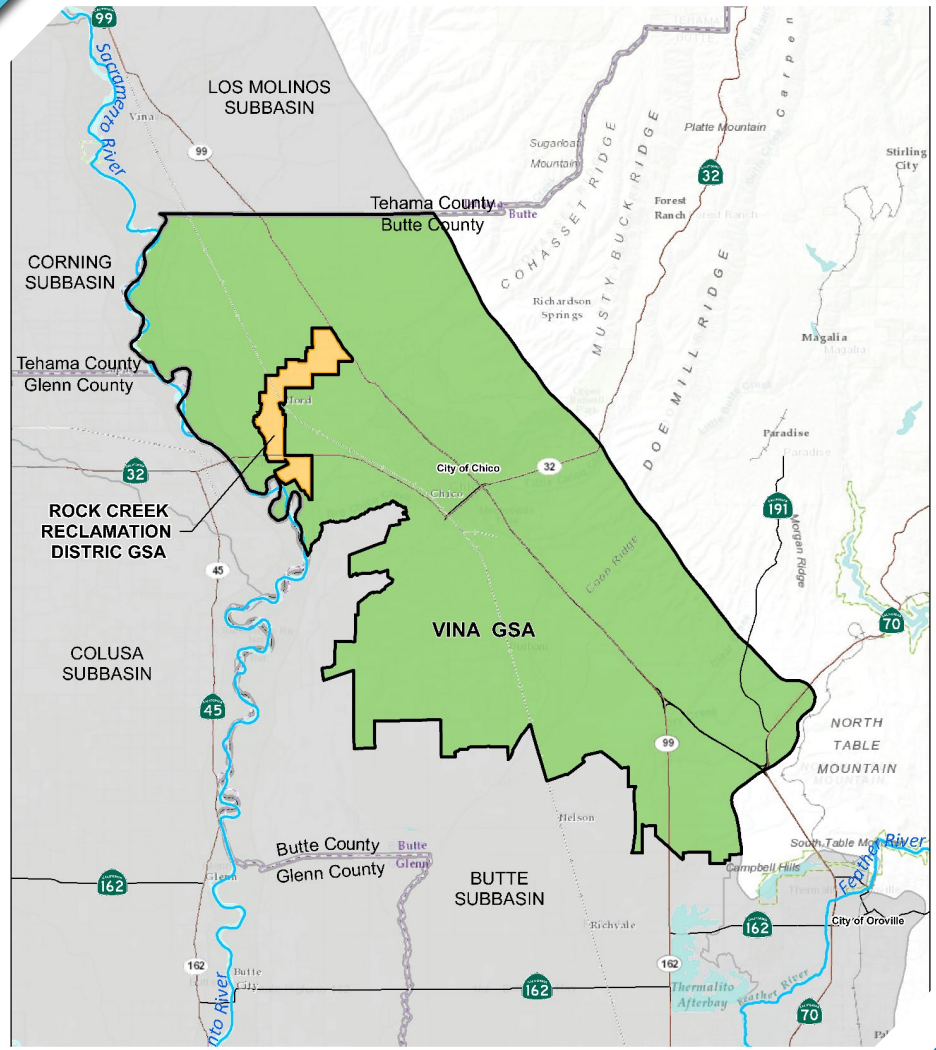
PROJECT MEETING
VINA SUBBASIN
GSP OVERVIEW
AUGUST 17, 2021



- Executive Summary
- Chapter 1 - Agency Information, Plan Area, Communication
- Chapter 2 - Basin Setting
- Chapter 3 - Sustainable management criteria
- Chapter 4 - Monitoring networks
- Chapter 5 - Project and management actions
- Chapter 6 - Plan implementation
- Chapter 7 - References

GSP OUTLINE
PUBLIC REVIEW DRAFT



- Agency Information
- Plan Area
- Management Programs
- Data Sources
- Communication

CHAPTER 1 - AGENCY INFORMATION, PLAN AREA, COMMUNICATION

- Hydrogeologic Conceptual Model
- Groundwater Conditions
- Water Budget

CHAPTER 2 – BASIN SETTING

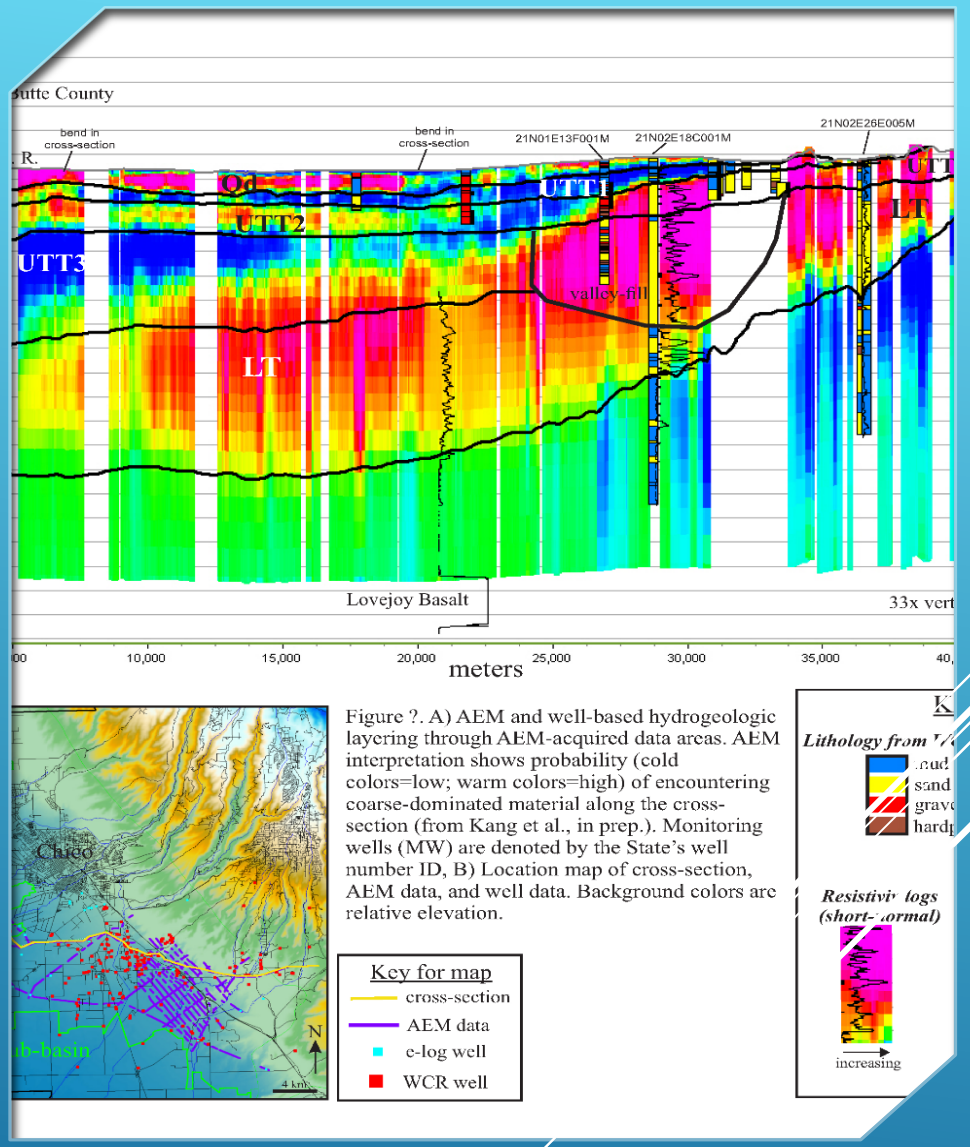
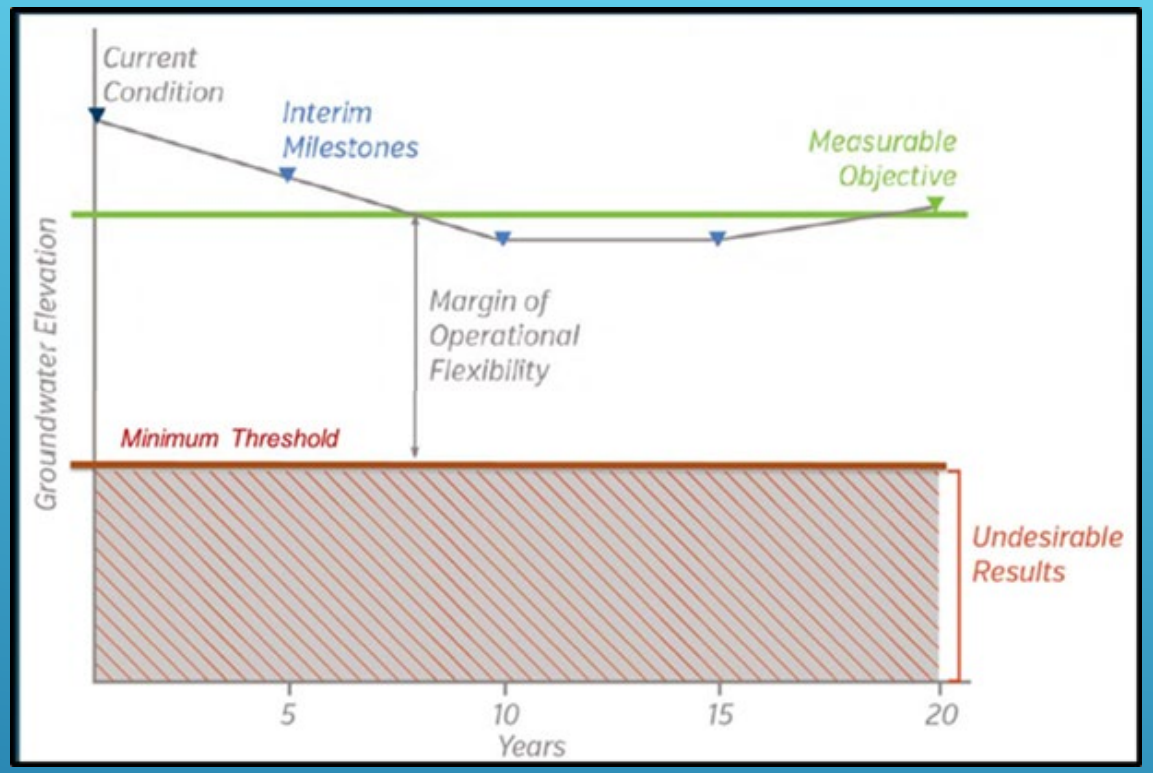


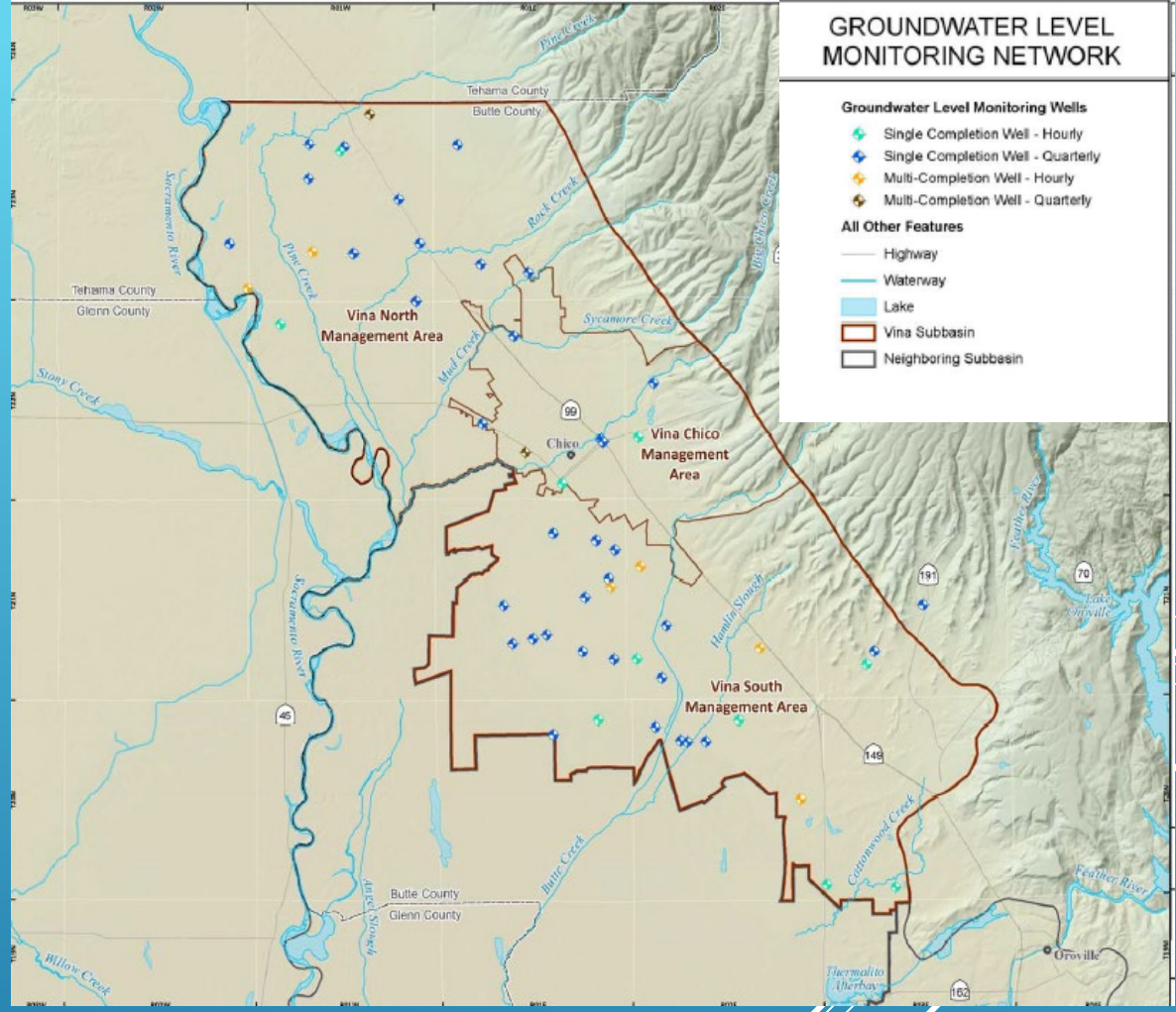
Figure ?. A) AEM and well-based hydrogeologic layering through AEM-acquired data areas. AEM interpretation shows probability (cold colors=low; warm colors=high) of encountering coarse-dominated material along the cross-section (from Kang et al., in prep.). Monitoring wells (MW) are denoted by the State's well number ID, B) Location map of cross-section, AEM data, and well data. Background colors are relative elevation.



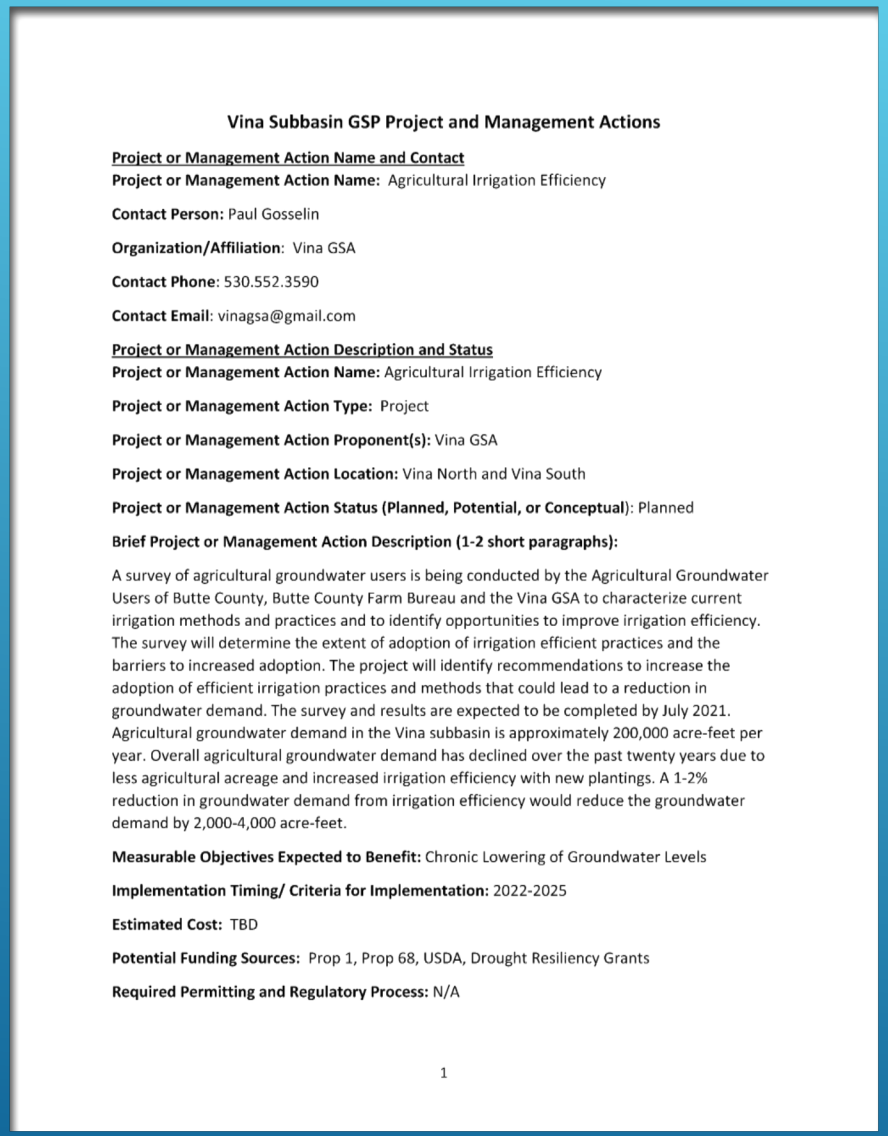
- Sustainability Goal
- Sustainability Indicators
- Sustainable Management Criteria – MO and MT
  - Groundwater Levels
  - Groundwater Storage
  - Groundwater Quality
  - Seawater Intrusion
  - Land Subsidence
  - Interconnected Surface Waters

CHAPTER 3 – SUSTAINABLE MANAGEMENT CRITERIA

- Objectives
- Monitoring Programs
  - Groundwater Level
  - Groundwater Quality
  - Subsidence
- Monitoring Protocols for Data Collection
- Representative Monitoring Sites
- Network Assessment and Improvements



CHAPTER 4 – MONITORING NETWORKS



Vina Subbasin GSP Project and Management Actions

Project or Management Action Name and Contact
Project or Management Action Name: Agricultural Irrigation Efficiency

Contact Person: Paul Gosselin

Organization/Affiliation: Vina GSA

Contact Phone: 530.552.3590

Contact Email: vinagsa@gmail.com

Project or Management Action Description and Status
Project or Management Action Name: Agricultural Irrigation Efficiency

Project or Management Action Type: Project

Project or Management Action Proponent(s): Vina GSA

Project or Management Action Location: Vina North and Vina South

Project or Management Action Status (Planned, Potential, or Conceptual): Planned

Brief Project or Management Action Description (1-2 short paragraphs):

A survey of agricultural groundwater users is being conducted by the Agricultural Groundwater Users of Butte County, Butte County Farm Bureau and the Vina GSA to characterize current irrigation methods and practices and to identify opportunities to improve irrigation efficiency. The survey will determine the extent of adoption of irrigation efficient practices and the barriers to increased adoption. The project will identify recommendations to increase the adoption of efficient irrigation practices and methods that could lead to a reduction in groundwater demand. The survey and results are expected to be completed by July 2021. Agricultural groundwater demand in the Vina subbasin is approximately 200,000 acre-feet per year. Overall agricultural groundwater demand has declined over the past twenty years due to less agricultural acreage and increased irrigation efficiency with new plantings. A 1-2% reduction in groundwater demand from irrigation efficiency would reduce the groundwater demand by 2,000-4,000 acre-feet.

Measurable Objectives Expected to Benefit: Chronic Lowering of Groundwater Levels

Implementation Timing/ Criteria for Implementation: 2022-2025

Estimated Cost: TBD

Potential Funding Sources: Prop 1, Prop 68, USDA, Drought Resiliency Grants

Required Permitting and Regulatory Process: N/A

1

- Projects
  - Project Identification
  - Project Implementation
  - List of Projects
  - Planned Projects
  - Potential Projects
  - Conceptual Projects
  - Notification Process
- Management Actions

CHAPTER 5 – PROJECTS AND MANAGEMENT ACTIONS

Estimate of Costs

Funding Alternatives

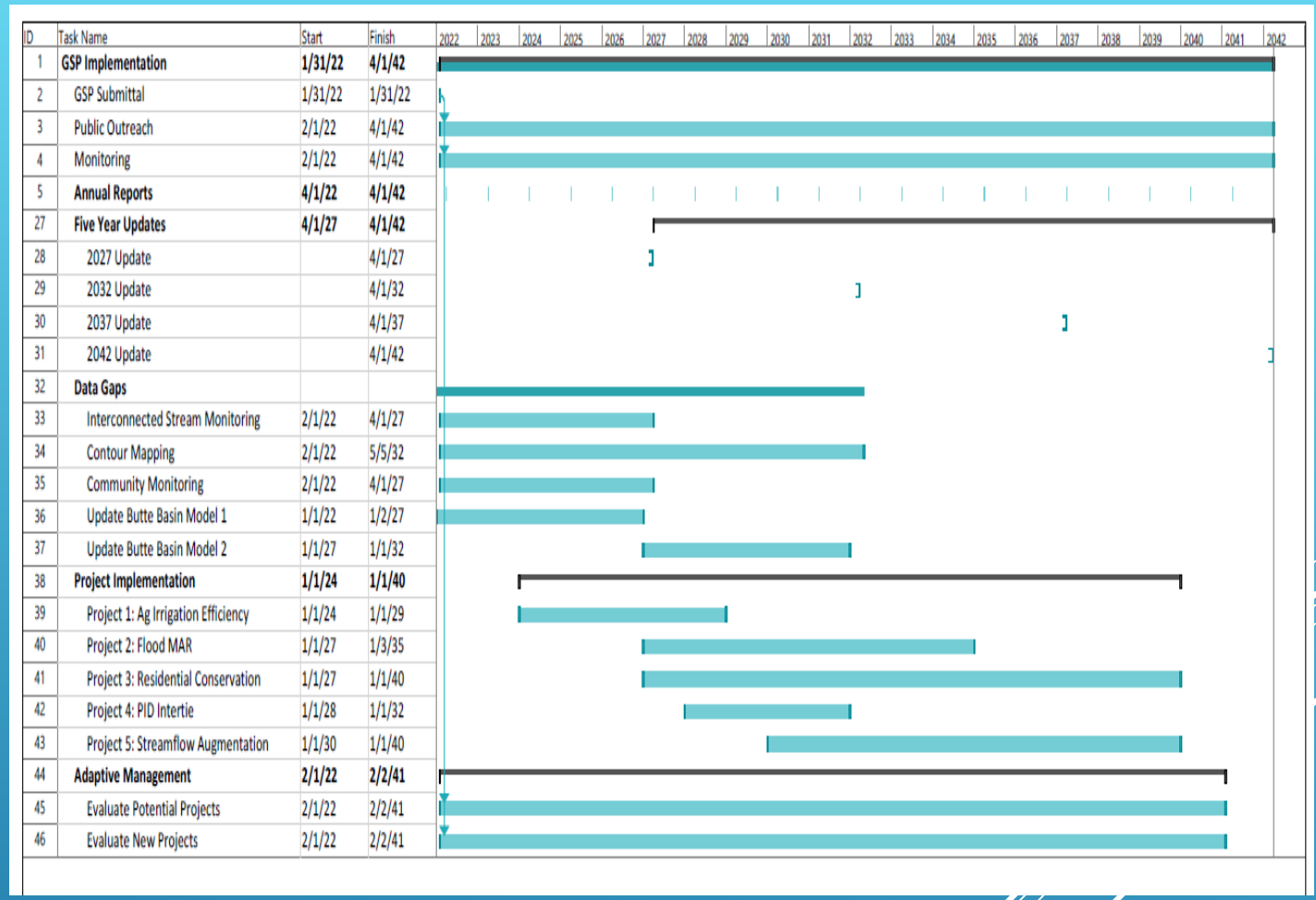
Schedule

Data Management System

Annual Reporting

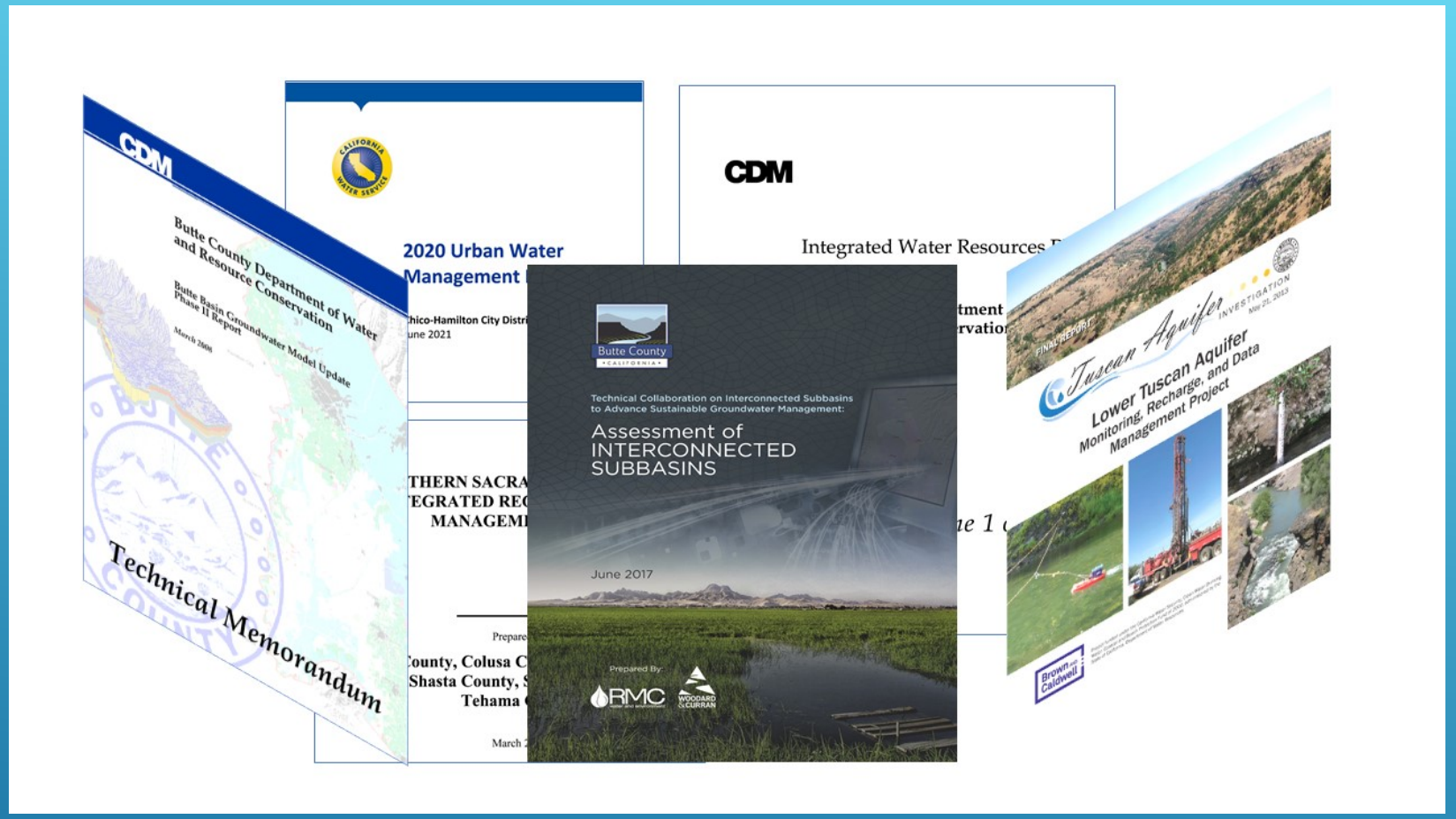
Evaluation Report

Interbasin Coordination

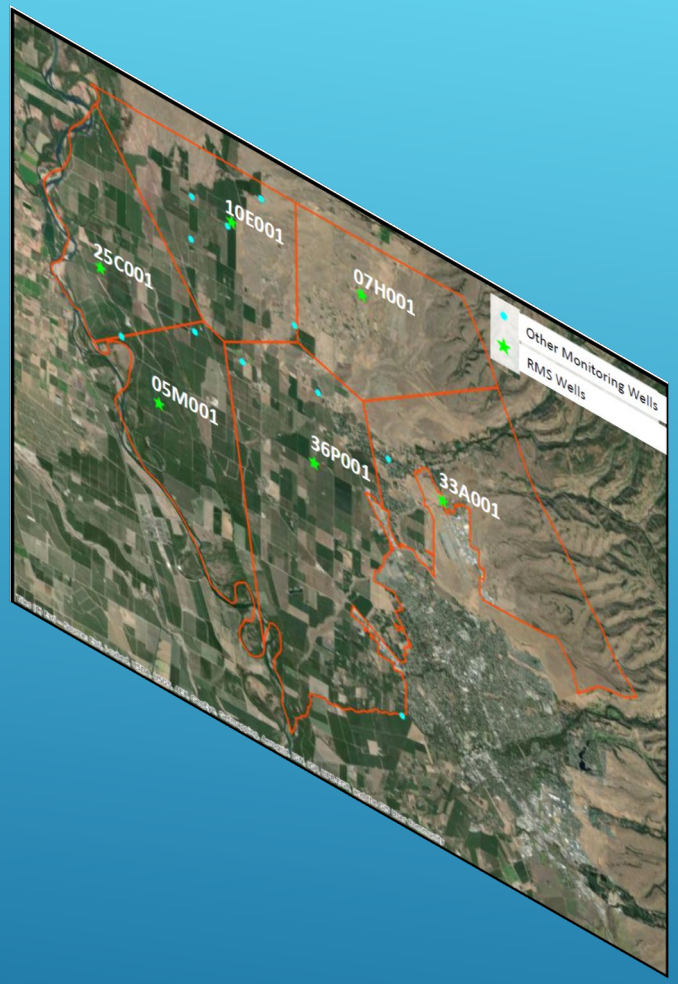


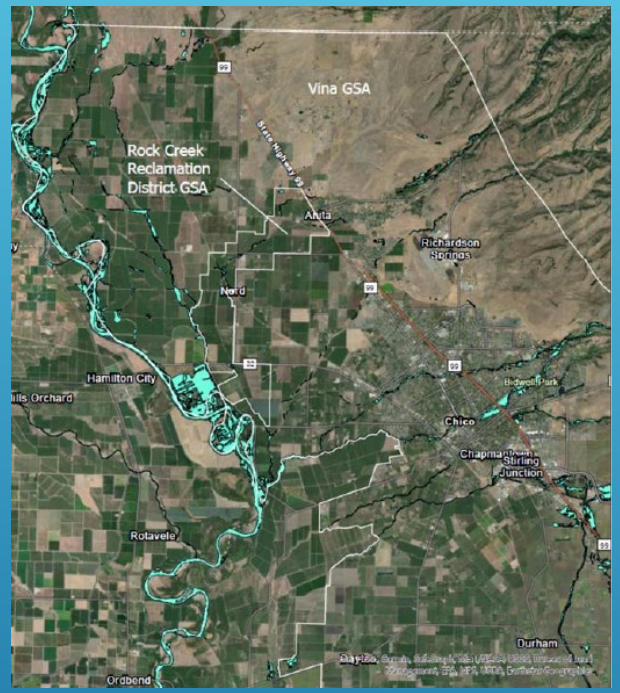
ID	Task Name	Start	Finish
1	**GSP Implementation**	**1/31/22**	**4/1/42**
2	GSP Submittal	1/31/22	1/31/22
3	Public Outreach	2/1/22	4/1/42
4	Monitoring	2/1/22	4/1/42
5	**Annual Reports**	**4/1/22**	**4/1/42**
27	**Five Year Updates**	**4/1/27**	**4/1/42**
28	2027 Update		4/1/27
29	2032 Update		4/1/32
30	2037 Update		4/1/37
31	2042 Update		4/1/42
32	**Data Gaps**		
33	Interconnected Stream Monitoring	2/1/22	4/1/27
34	Contour Mapping	2/1/22	5/5/32
35	Community Monitoring	2/1/22	4/1/27
36	Update Butte Basin Model 1	1/1/22	1/2/27
37	Update Butte Basin Model 2	1/1/27	1/1/32
38	**Project Implementation**	**1/1/24**	**1/1/40**
39	Project 1: Ag Irrigation Efficiency	1/1/24	1/1/29
40	Project 2: Flood MAR	1/1/27	1/3/35
41	Project 3: Residential Conservation	1/1/27	1/1/40
42	Project 4: PID Intertie	1/1/28	1/1/32
43	Project 5: Streamflow Augmentation	1/1/30	1/1/40
44	**Adaptive Management**	**2/1/22**	**2/2/41**
45	Evaluate Potential Projects	2/1/22	2/2/41
46	Evaluate New Projects	2/1/22	2/2/41

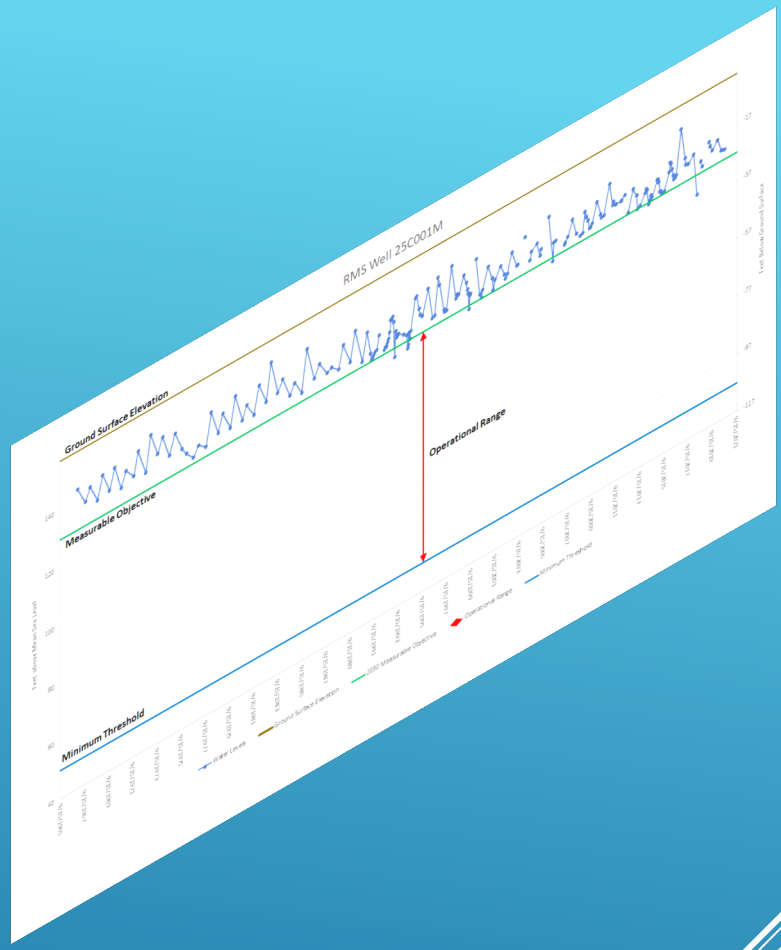
CHAPTER 6 - IMPLEMENTATION



CHAPTER 7 - REFERENCES


10E001
25C001
07H001
05M001
36P001
33A001
Other Monitoring Wells
RMS Wells


Vina GSA
Rock Creek
Reclamation
District GSA
Anita
Richardson
Springs
Nord
Hamilton City
Chico
Stirling
Junction
Rotavele
Durham
Ordbend


RMS Well 25C001M
Ground Surface Elevation
Measurable Objective
Operational Range
Minimum Threshold

APPENDICES