The North American Subbasin (NASb) DWR SGM Grant C2 – C5 Pre-Project Meeting (Virtual)

Wednesday, May 29, 2024, 5:30PM – 7:30PM

Reclamation District 1001 GSA
Sacramento Groundwater Authority GSA
South Sutter Water District GSA
Sutter County GSA
West Placer GSA

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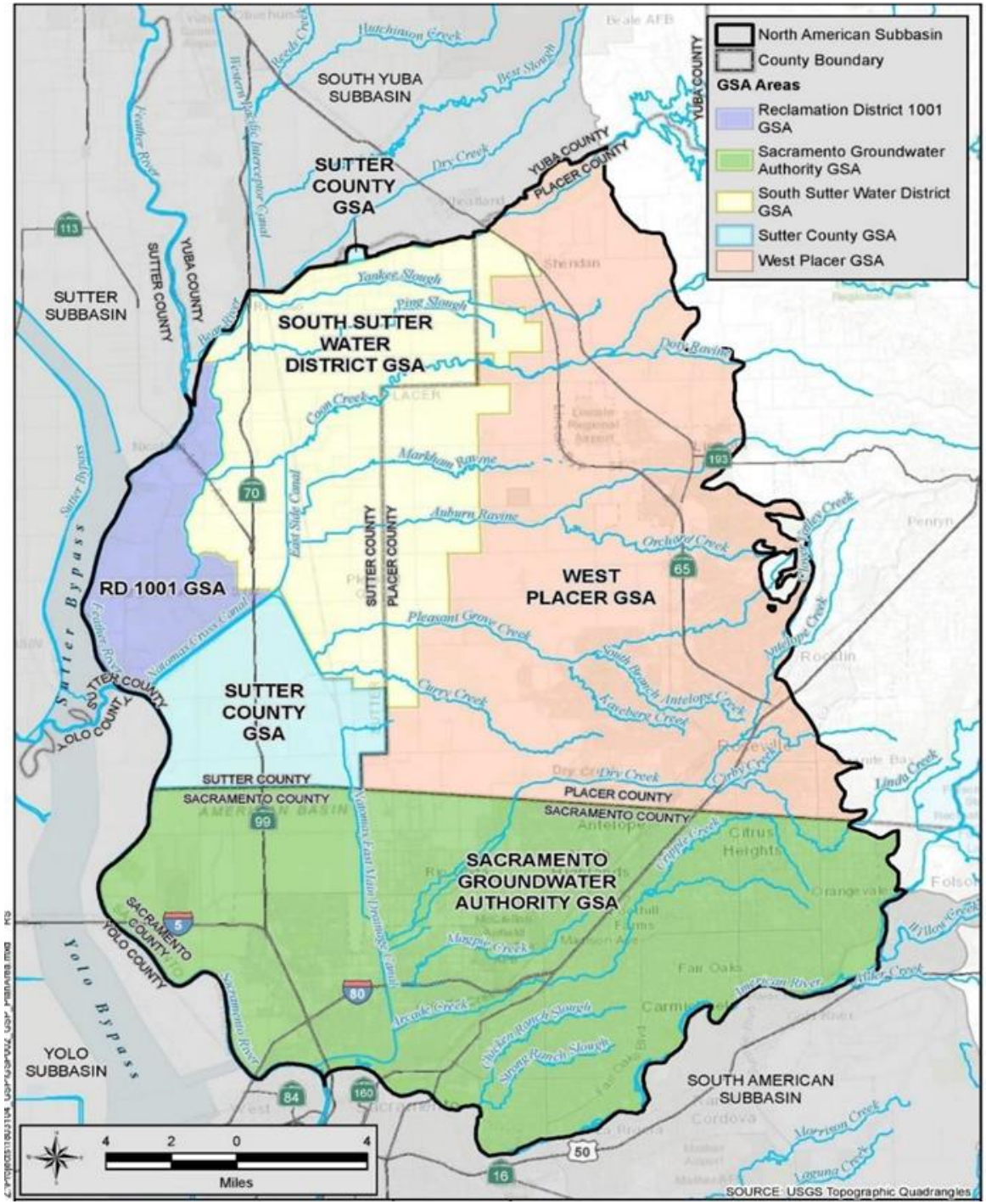

Agenda

1. Welcome and Meeting Purpose
2. The North American Subbasin (NASb) and SGMA Introduction
3. The California Department of Water Resources (DWR) SGM Grant Round II Program and the NASb Proposed Projects (Components)
4. Questions/Comments

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Welcome and Meeting Purpose

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Meeting Purpose

The purpose of todays meeting is to:

- Provide an overview of the DWRs SGM Grant Round II, awarded to the Subbasin in September 2023.
- Present four of the proposed components, or projects, and their current planning efforts.
- Coordinate and discuss with interested parties on the development of projects.

How to Engage During the Meeting

- **On Zoom**:
  - “Raise hand” function to speak or
  - Type question in comment box
- **Via telephone**:
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  - *6 to unmute when called on

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The North American Subbasin (NASb) and Sustainable Groundwater Management Act (SGMA) Introduction

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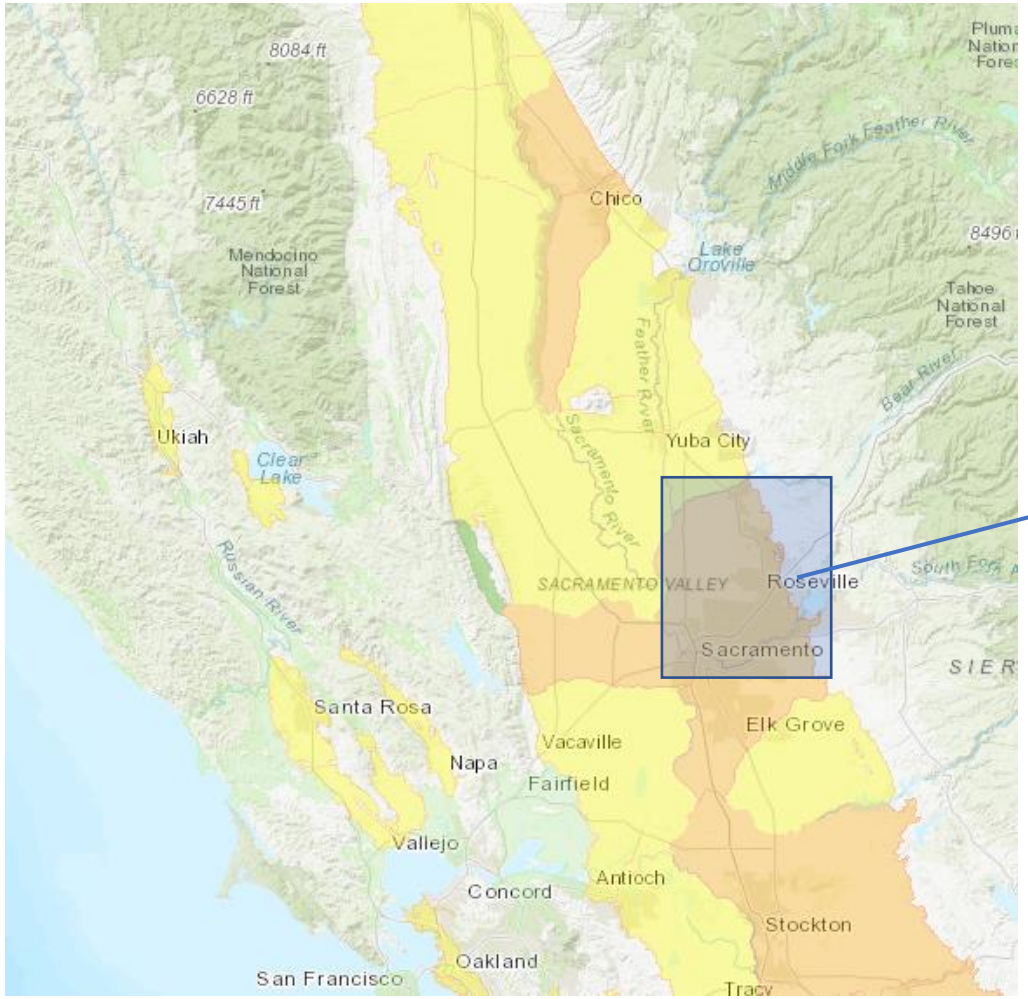
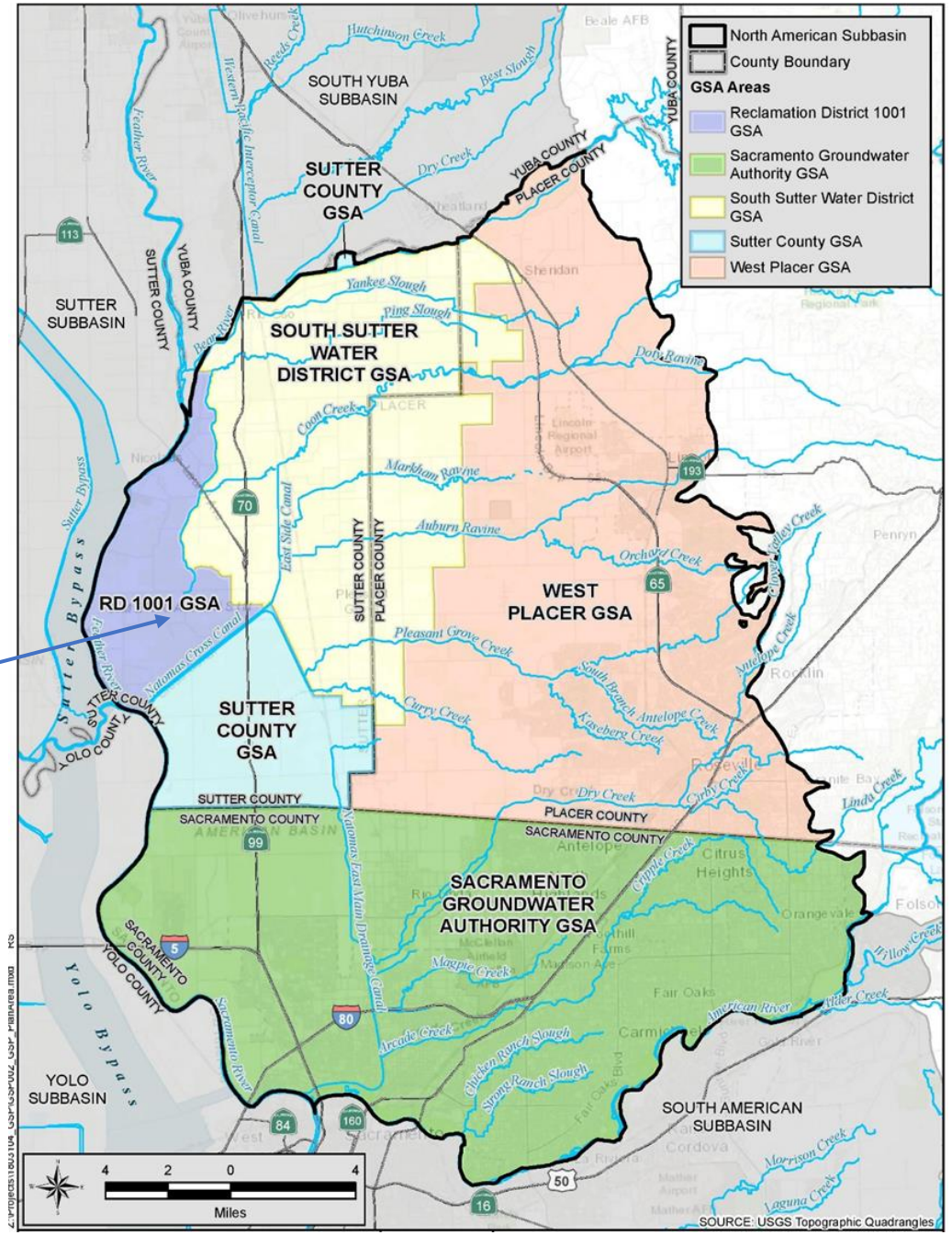
NASb Overview & GSA Introduction





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NASb GSAs

Reclamation District 1001 (RD 1001 GSA)

Kimberly Reese | Reclamation District 1001
1959 Cornelius Ave | Rio Oso, CA 95674
530-656-2318 | kreese@rd1001.org

Sacramento Groundwater Authority GSA (SGA GSA)

Trevor Joseph | Manager of Technical Services | Sacramento Groundwater Authority
2295 Gateway Oaks Drive, Suite 100| Sacramento, CA 95833
(916) 967-7692 | tjoseph@rwah2o.org

South Sutter Water District GSA

Hayden Cronwell| General Manager | South Sutter Water District
2464 Pacific Avenue | Trowbridge, CA 95659
530-656-2242 |hcornwell@soutsutterwd.com

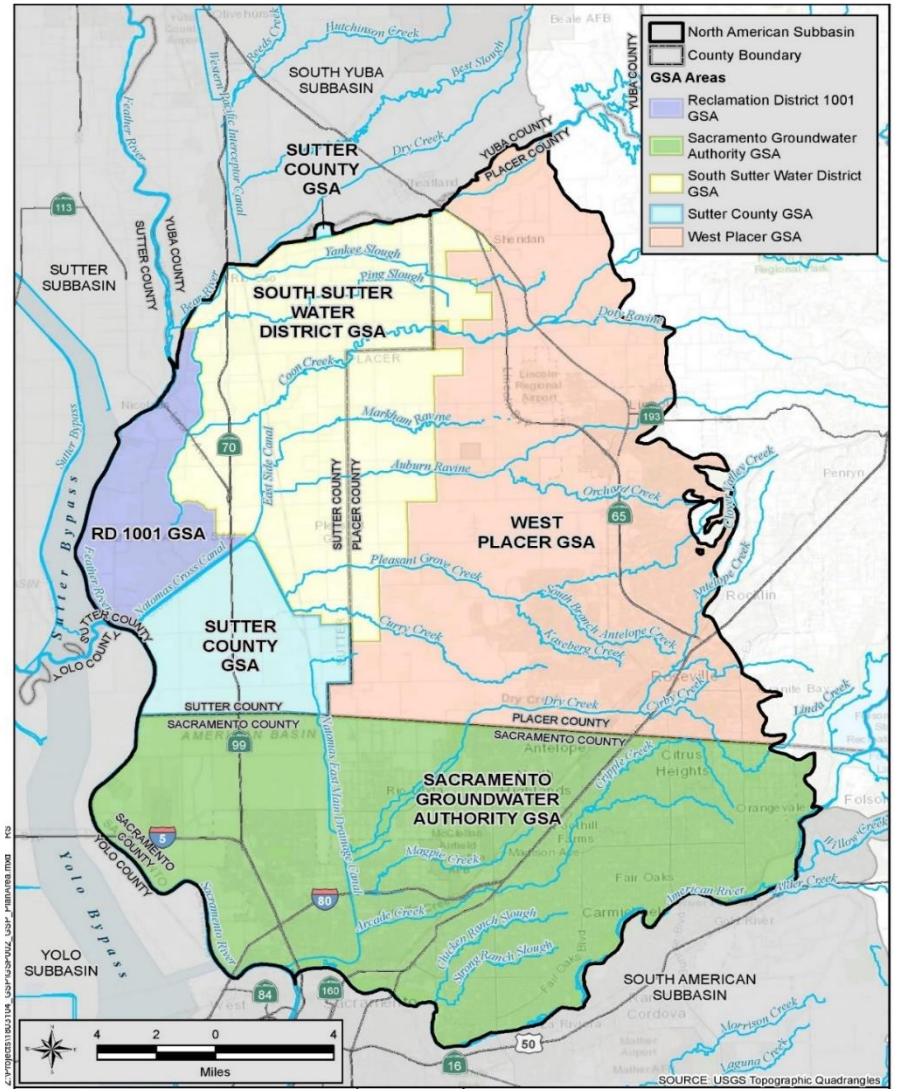
Sutter County GSA

Guadalupe Rivera | Principal Engineer | Sutter County
1130 Civic Center Blvd. | Yuba City, CA 95993
530-822-7400 | grivera@co.sutter.ca.us

West Placer GSA (WPGSA)

Christina Hanson | Supervising Planner | Placer County
3091 County Center Drive, Suite 170 | Auburn, CA 95603
530-886-4965 | chanson@placer.ca.gov

NASb Website: nasbgroundwater.org



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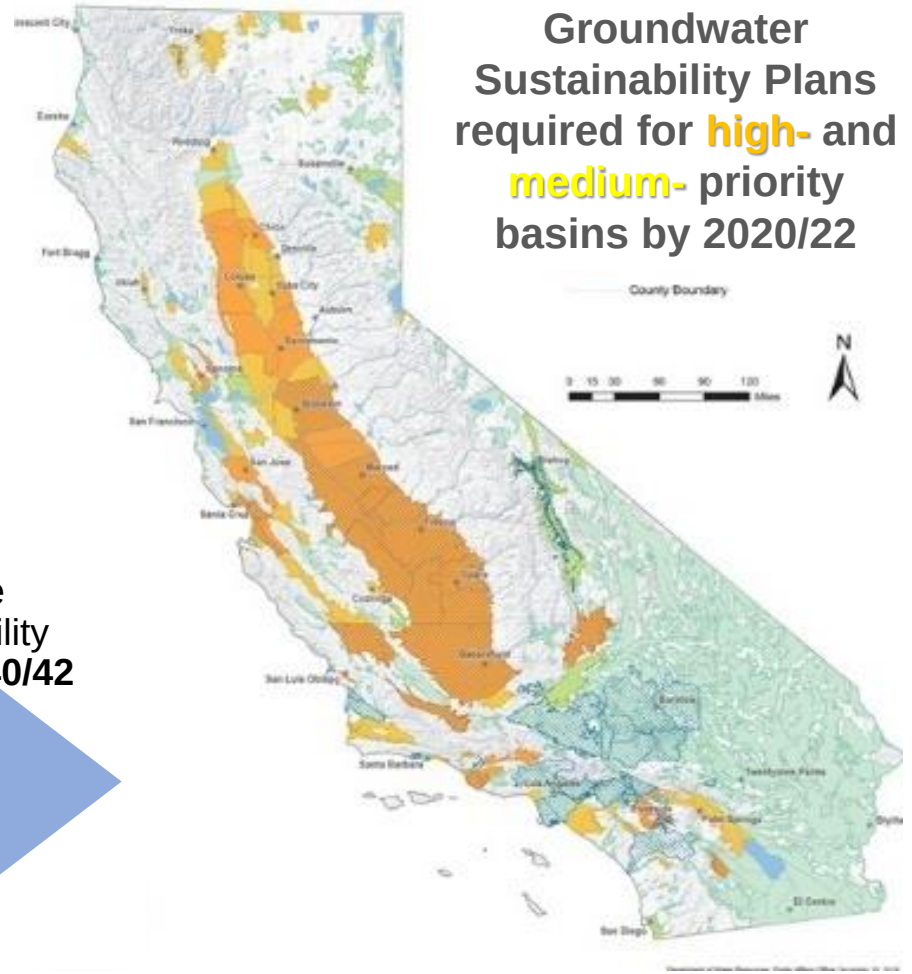
Sustainable Groundwater Management Act (SGMA)

Local Control

"A central feature of these bills is the recognition that groundwater management in California is best accomplished locally."
Governor Jerry Brown, September 2014

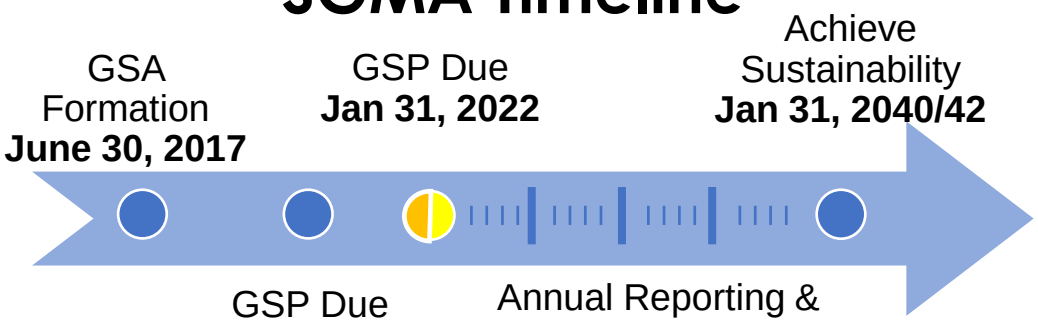
Roles

Groundwater Basins



Groundwater Sustainability Plans required for high- and medium- priority basins by 2020/22

SGMA Timeline



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The California Department of Water Resources (DWR) SGM Grant Round 2 Program and the NASb Proposed Projects (Components)

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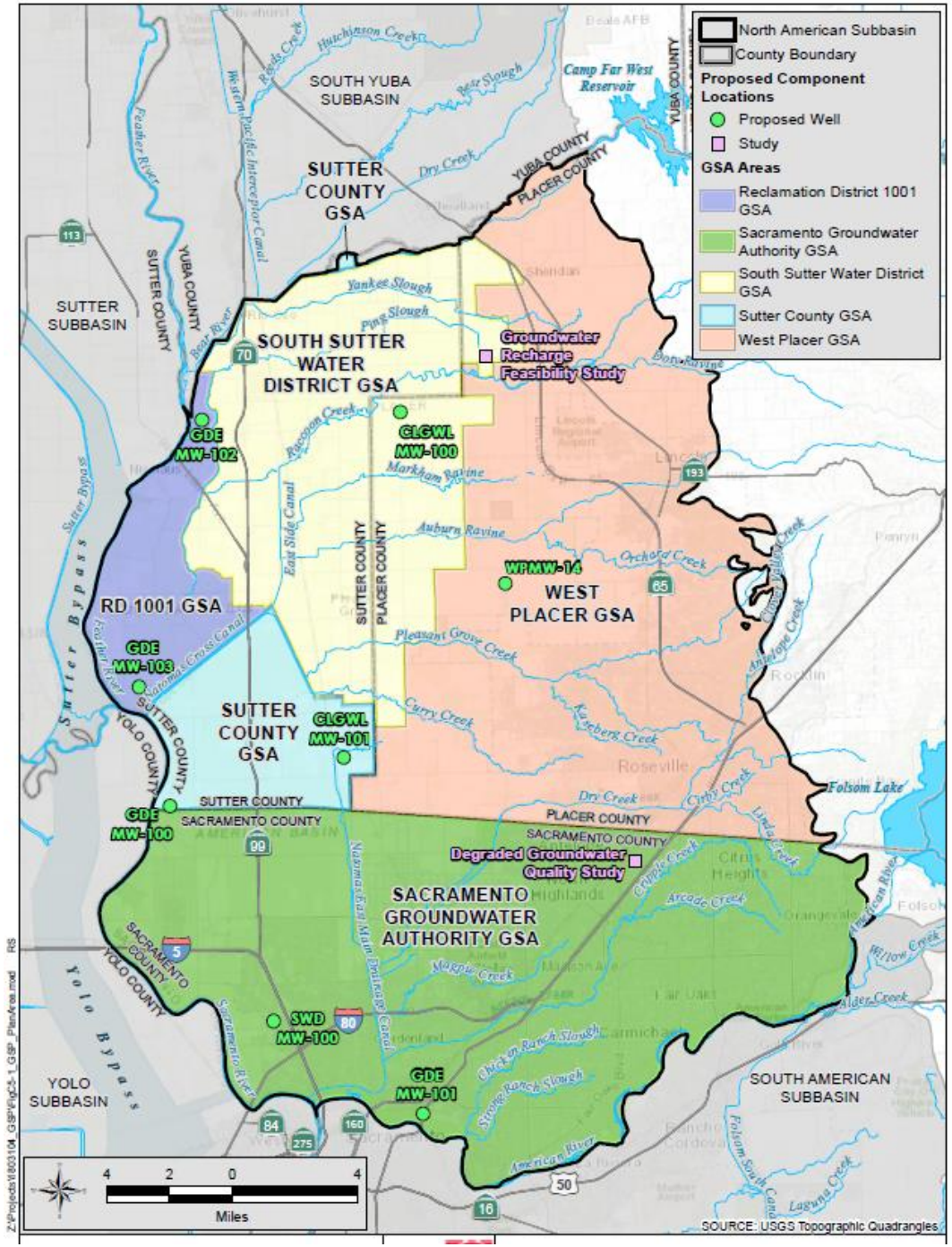
Department of Water Resources (DWR) SGM Grant Overview

- DWR administered the Sustainable Groundwater Management (SGM) Grant Program
- Round 1 Awards ($150 million for Critically Overdrafted Basins, ~$7.6 million per basin
  Round 2 Solicitation Opened: October 4, 2022 Deadline: December 16, 2022
  - High, Medium, & Critically Overdrafted basins eligible, approx. $231 million avail.
  - Grant awards: Minimum – $1 million per basin; Maximum– $20 million per basin
  - Only one application per basin/subbasin
- **Round 2 Draft Funding Recommendations Announced May 19, 2023**
  - DWR received 82 applications requestion over $780 million
  - Recommended 31 applications receive a total award of $187.3M
  - Public comment period ended June 9, 2023
  - Final award announced September 13, 2023
  - Signed DWR Grant Agreement January 2024
- **DWR awarded NASb the full requested grant amount of $3,560,500 for Advancing NASb Sustainable Groundwater Management**

NASb Grant *Proposed* Components

Advancing NASb SGM (Proposed) Components

1. Grant Administration
2. Groundwater Recharge Feasibility Study
3. Groundwater Quality Degradation Study
4. Groundwater Monitoring Wells Construction
   - GDE (4)
   - Lowering of Levels (1)
   - SW Depletion (1)
5. Groundwater Monitoring Well/Emergency Supply Well
   - Domestic and Emergency Supply (1)
6. GSP Update and Annual Reporting
7. CoSANA Model Upgrade and Enhancements



Exact locations of proposed components may vary

Component 2 – Groundwater Recharge Feasibility Study

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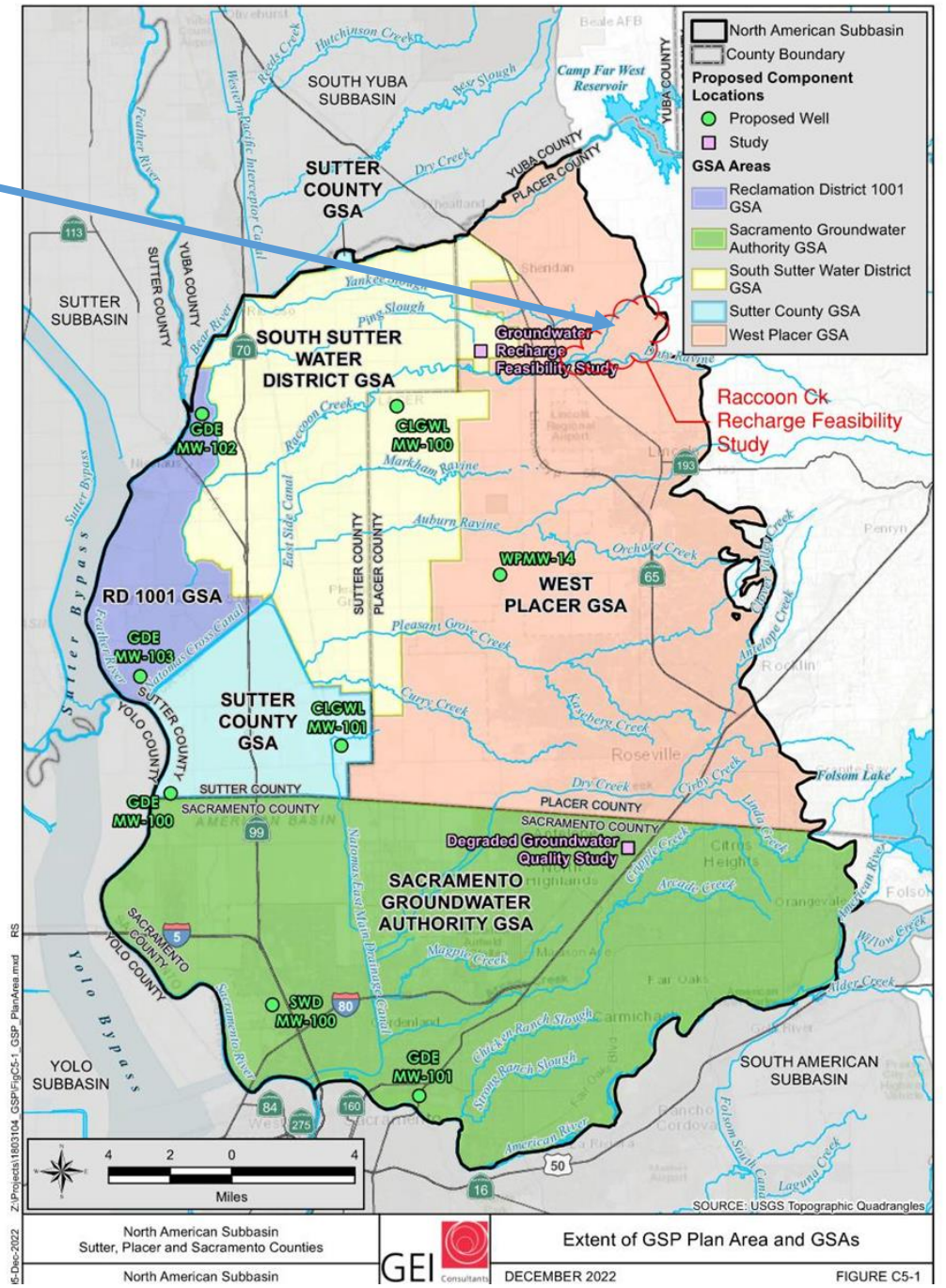
Component 2 – Groundwater Recharge Feasibility Study

COMPONENT 2: GROUNDWATER RECHARGE FEASIBILITY STUDY

The purpose of this component will be to confirm the presence the permeable sediments in the existing 160-acre detention basin and other portions of the property through the use of electromagnetic geophysical survey (towed TEM), hollow-stem auger borings to validate the towed TEM results, pilot recharge basin testing (flood backhoe pits), an analysis evaluation of whether two-year flood event water could be gravity drained into the facility or whether a pump lift station should be constructed. Upon completion of this component, if favorable conditions are confirmed, 30 percent design drawings will be completed to allow the component construction activities to be bid on and constructed after additional funding is obtained. This component will also include preparation of a Temporary Surface Water Diversion permit application to prepare for Step 3 Performance Testing.



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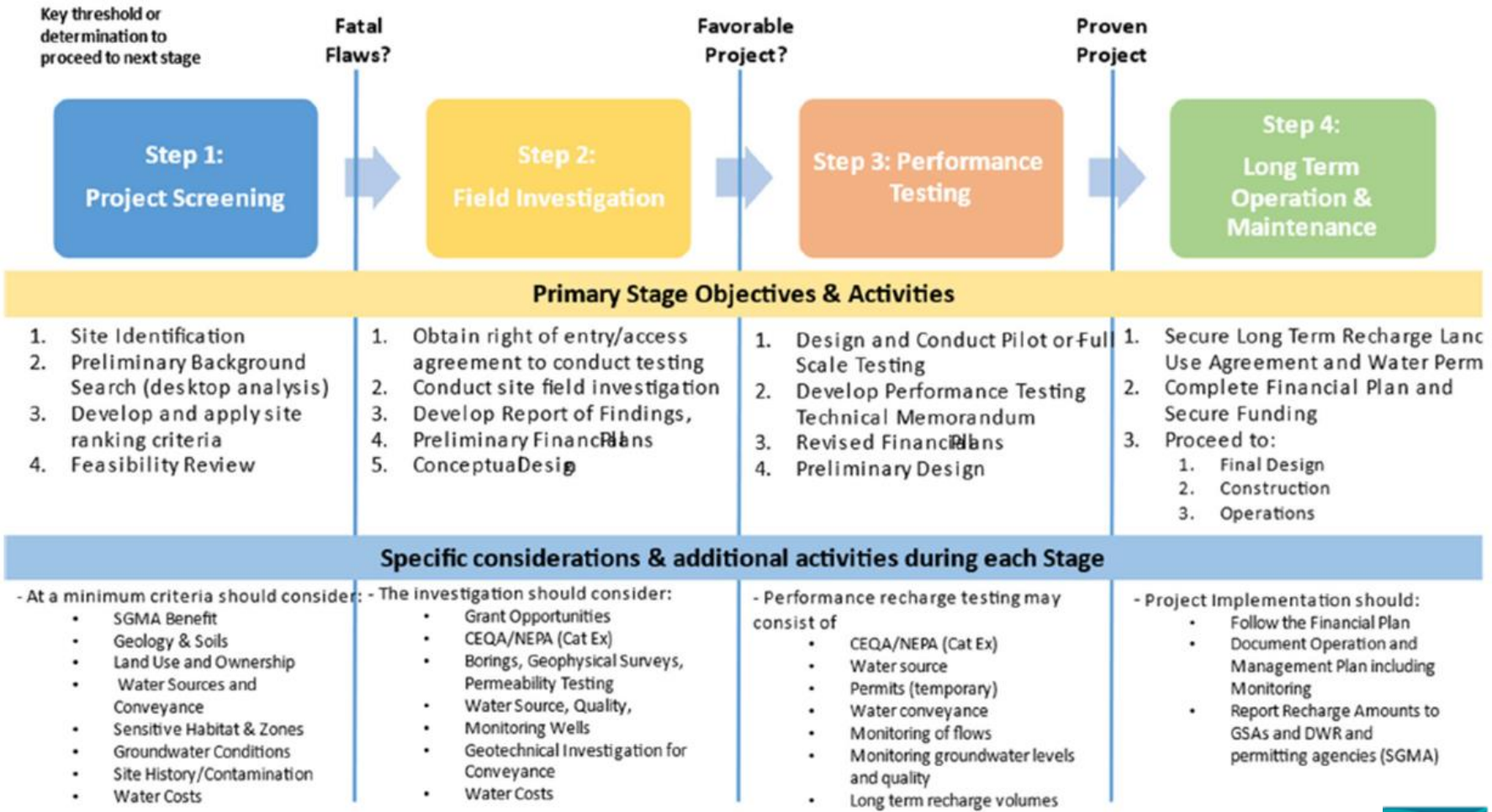
Component 2 – Groundwater Recharge Feasibility Study

Figure C2-2. Recharge Stage Development Approach



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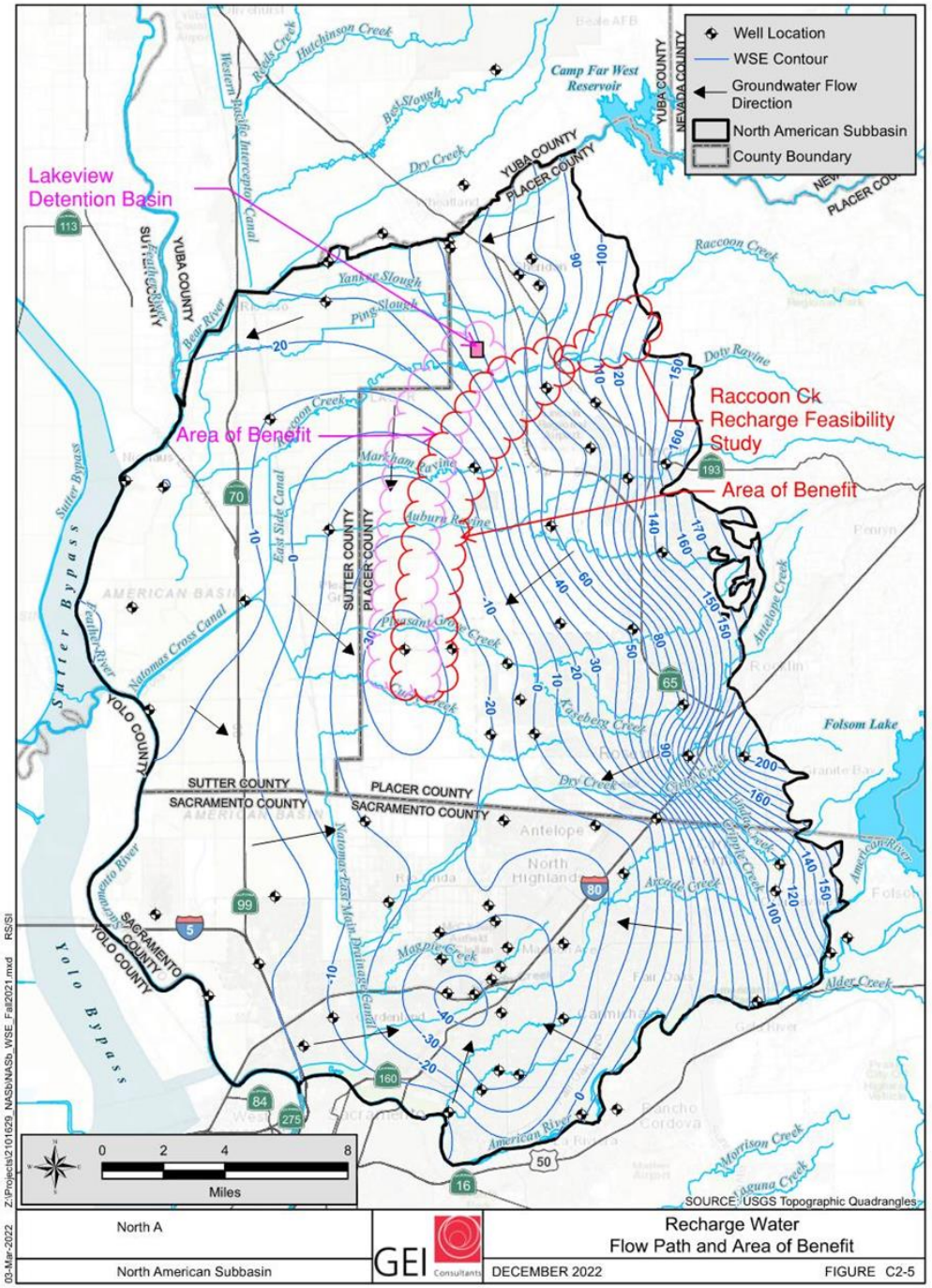
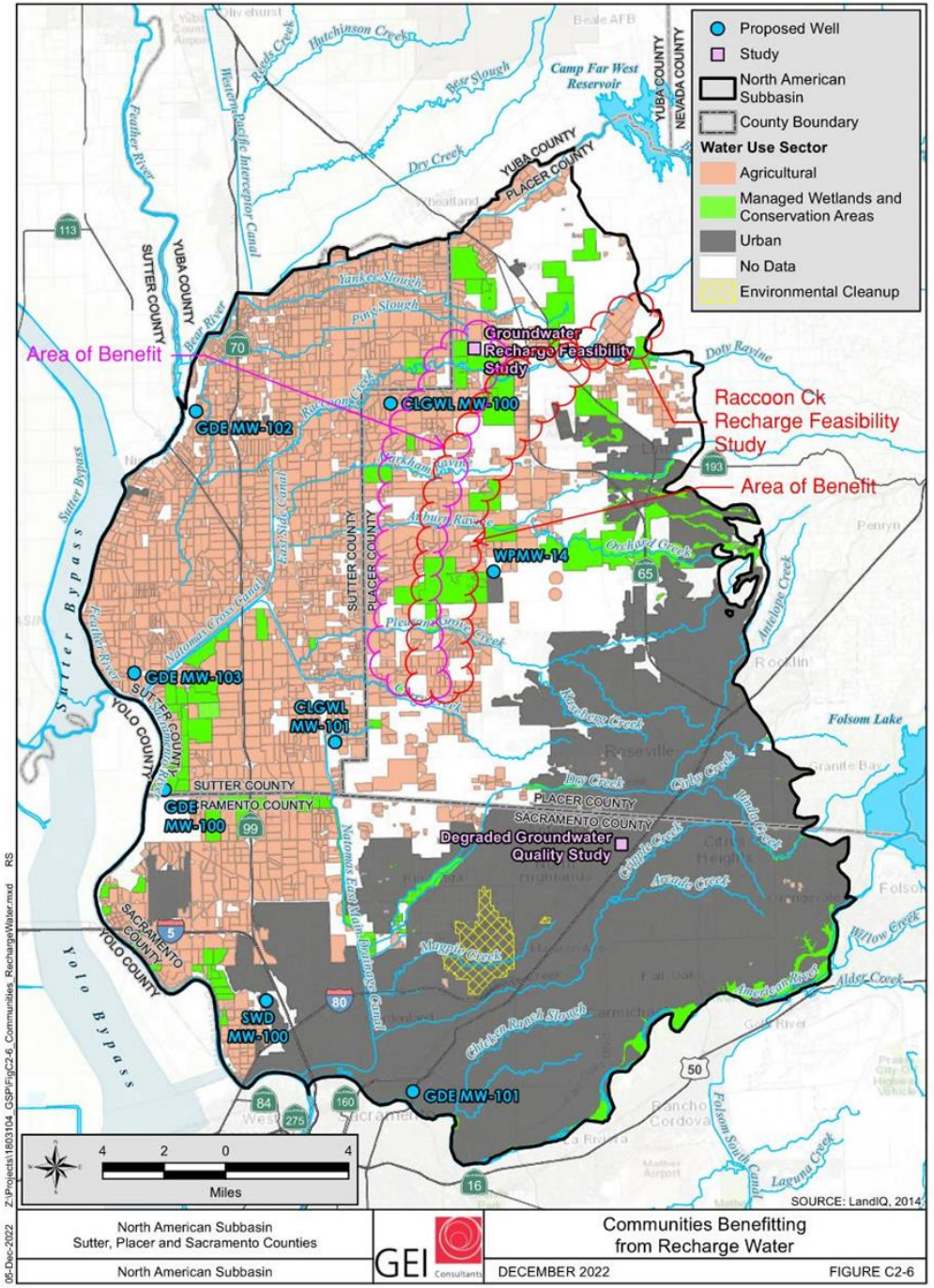
Component 2 – Area of Benefit





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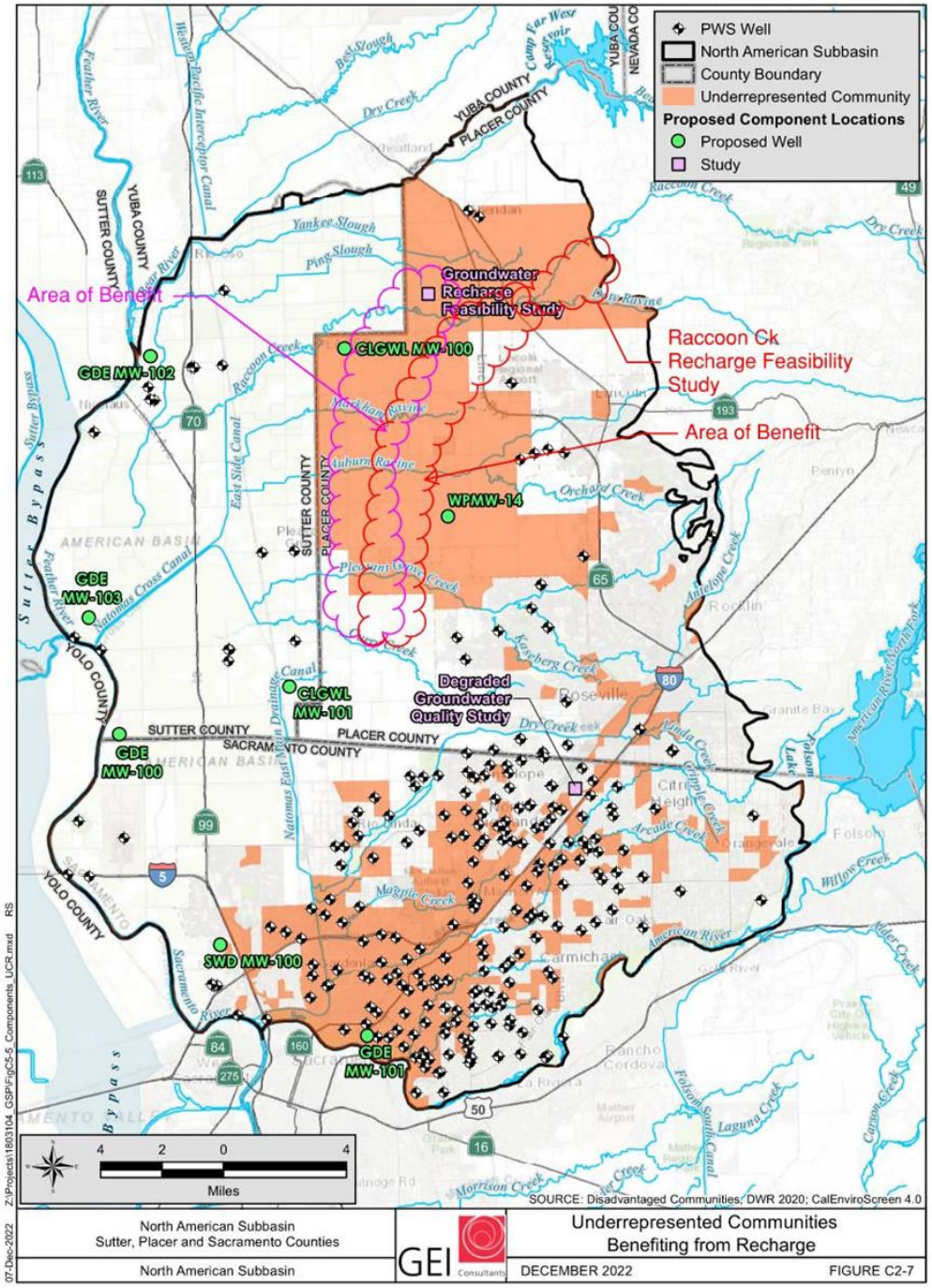

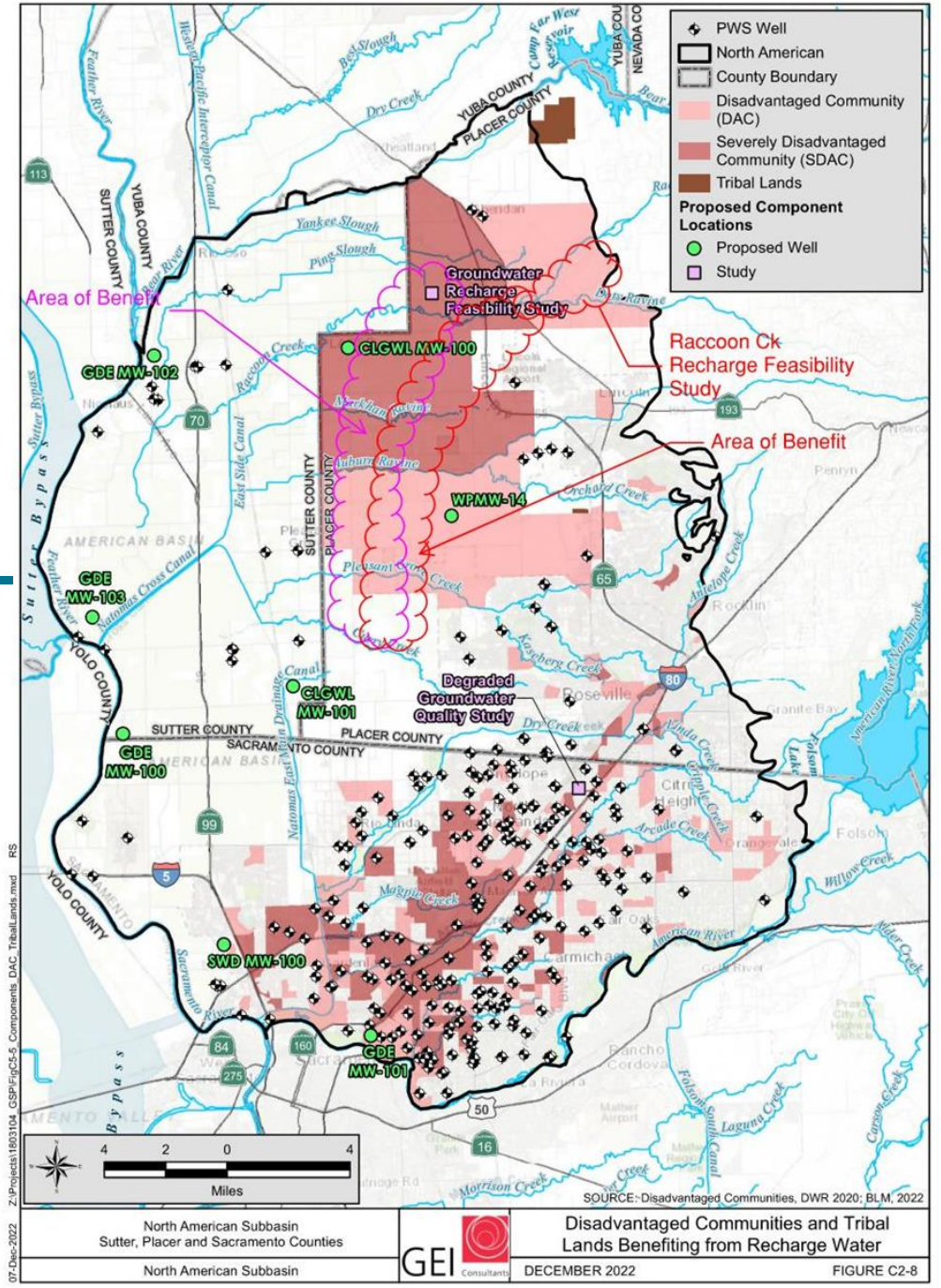

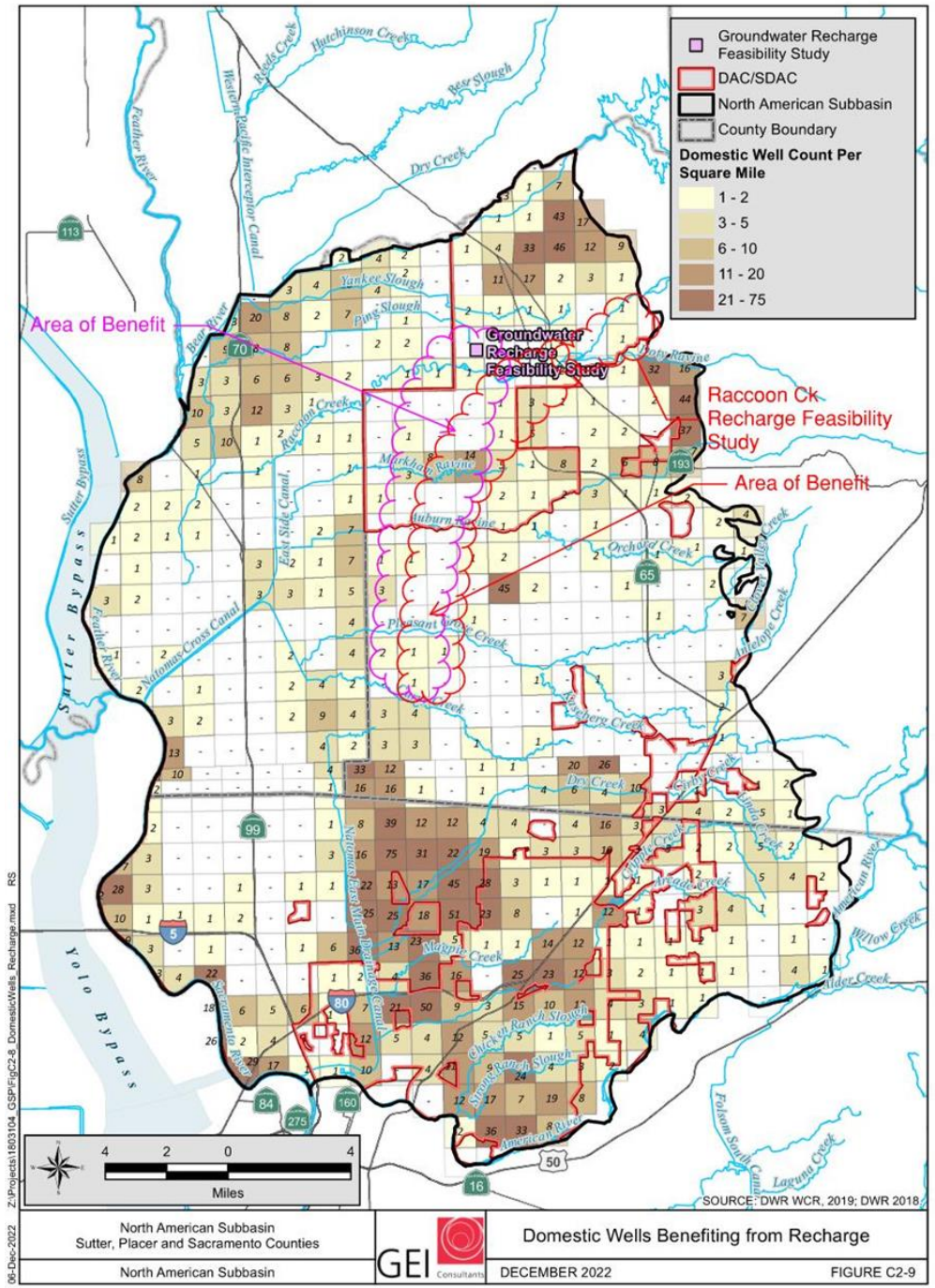

Component 2 – Area of Benefit

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A Break for Questions/ Discussion

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Component 3 – Groundwater Quality Degradation Study

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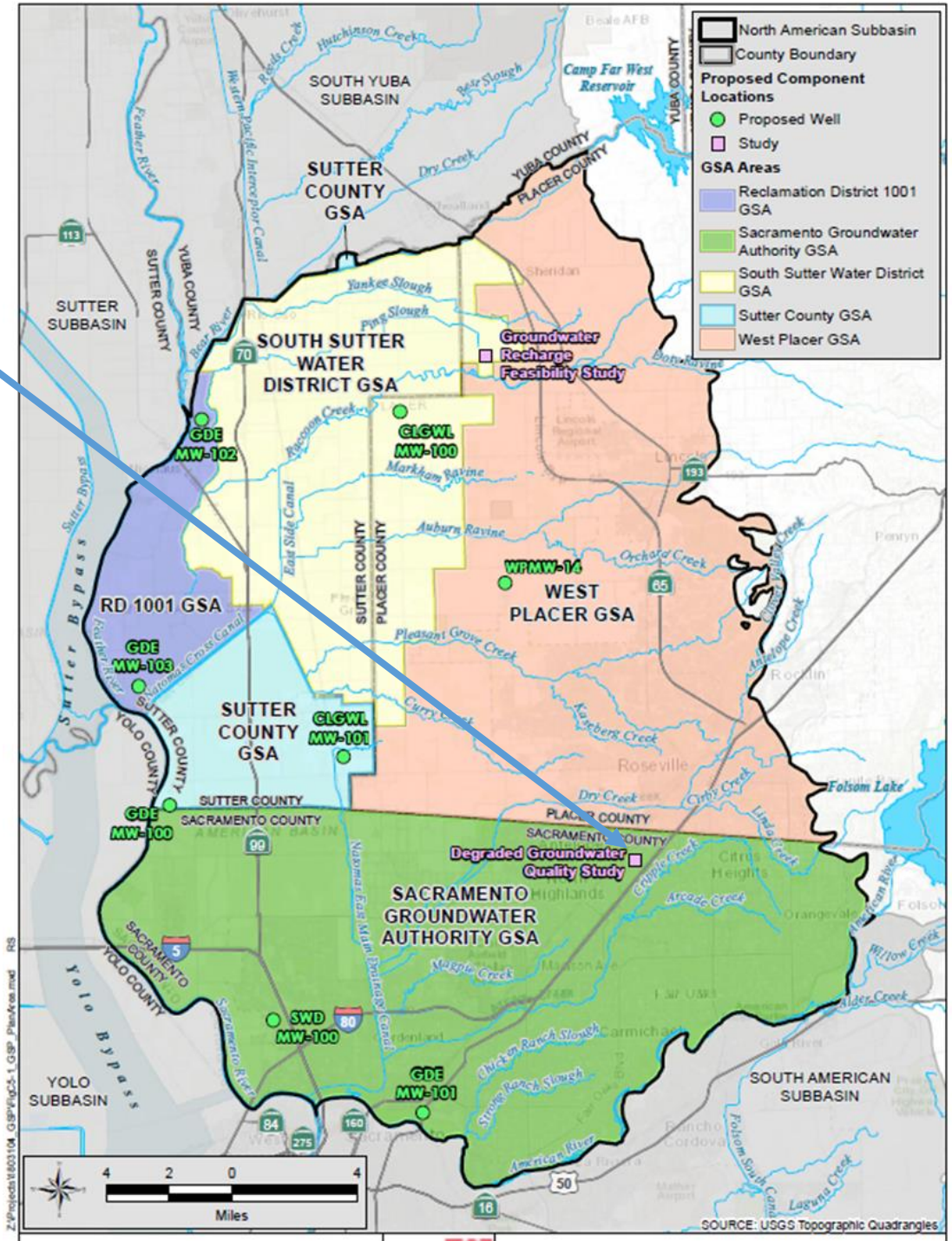
Component 3 – Groundwater Quality Degradation Study

COMPONENT 3: GROUNDWATER QUALITY DEGRADATION STUDY

The study will evaluate the Tetrachloroethylene (PCE) vertical and horizontal extent in lower western Placer and northeastern Sacramento counties and to identify those wells that could be affected in the future. In addition, this study will identify the potential need for well head treatment, areas more favorable to locate new wells, and the potential effects of conjunctive use on the migration of PCE and using aquifer storage and recovery (ASR) wells. This study is intended to be a "desk-top" study with no field investigations. This study is not intended to identify potential responsible parties, assess contamination from Aerojet or former Mather of McClellan AFB which are being remediated and are under regulatory agency direction.



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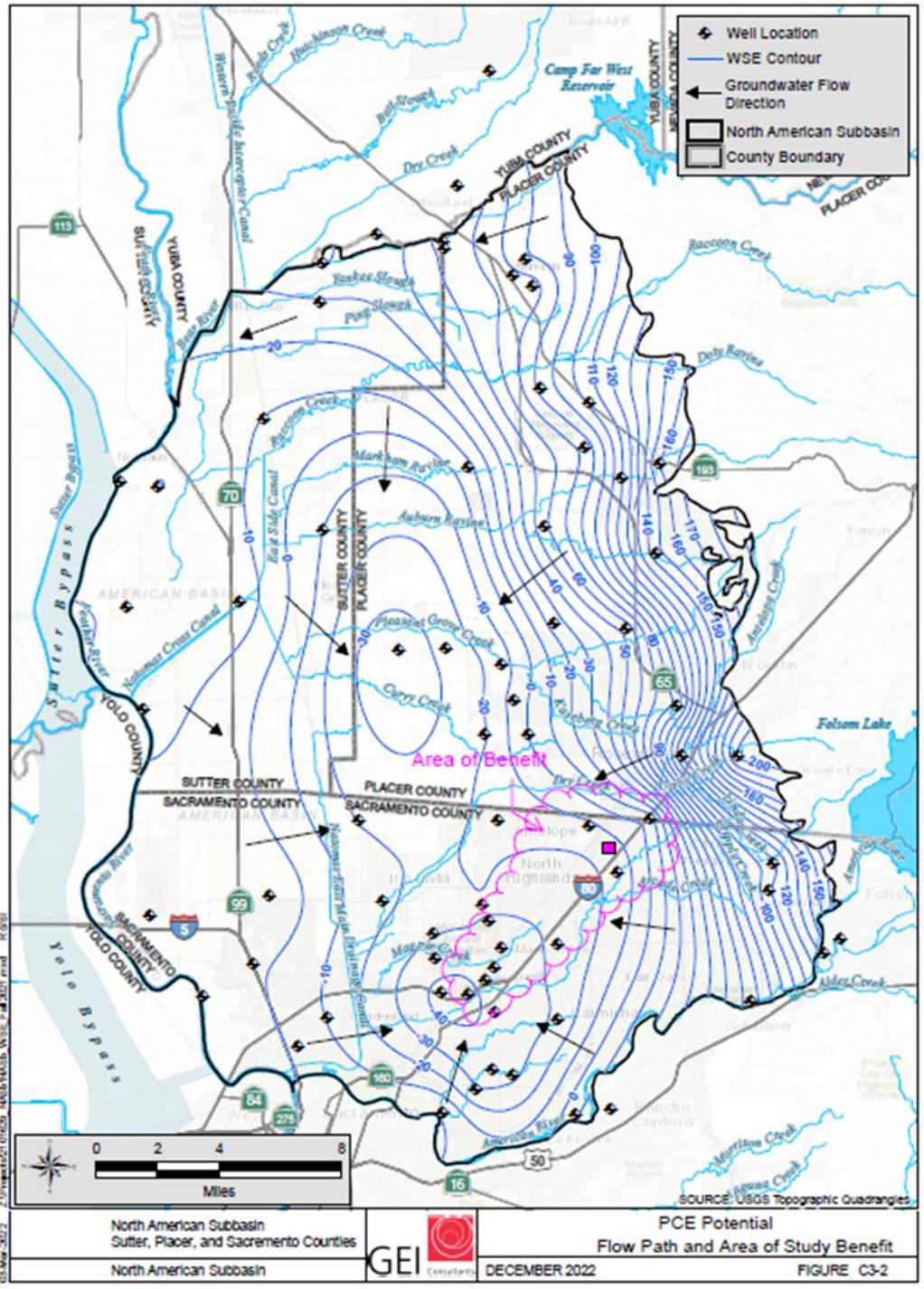

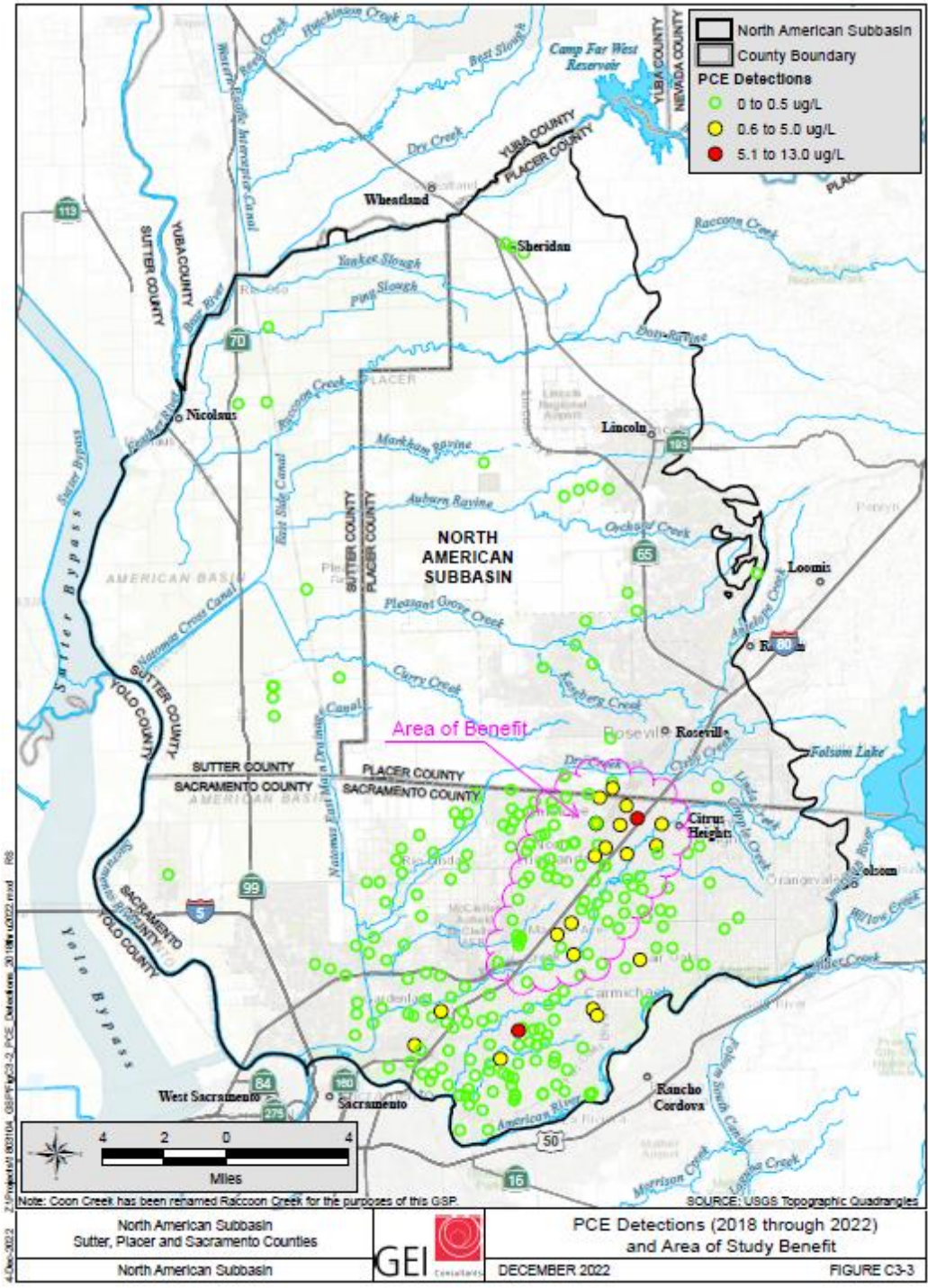

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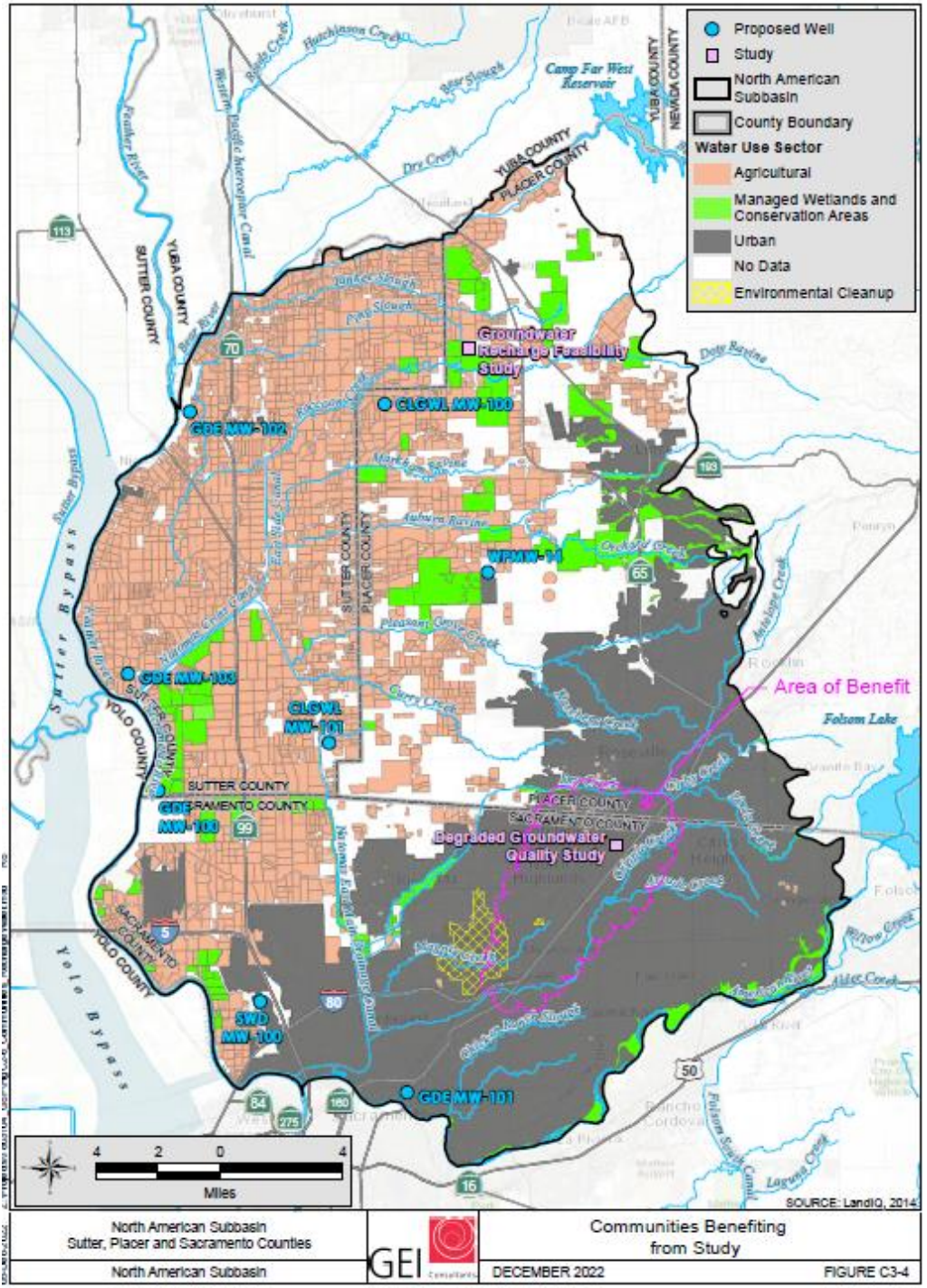

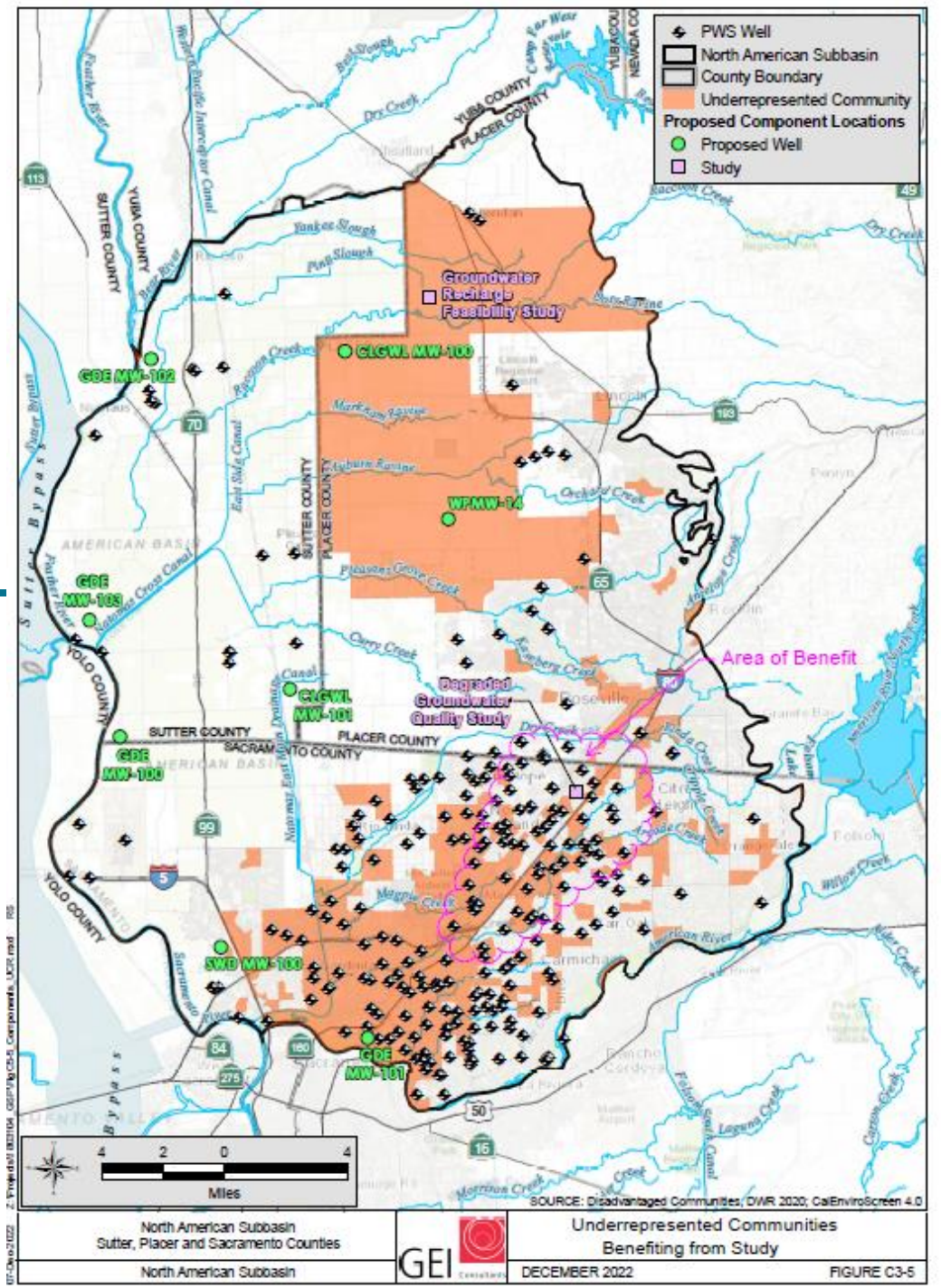

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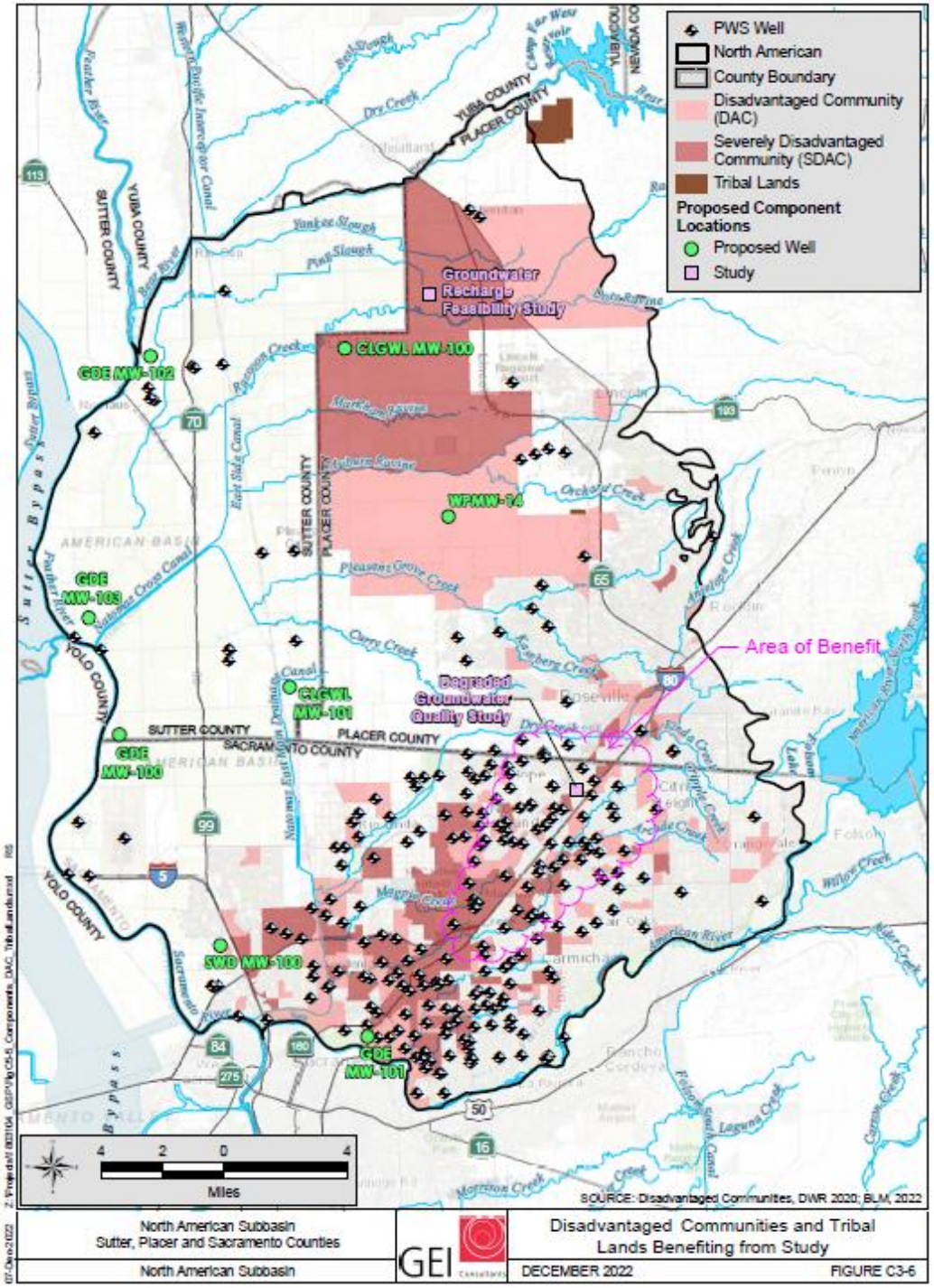

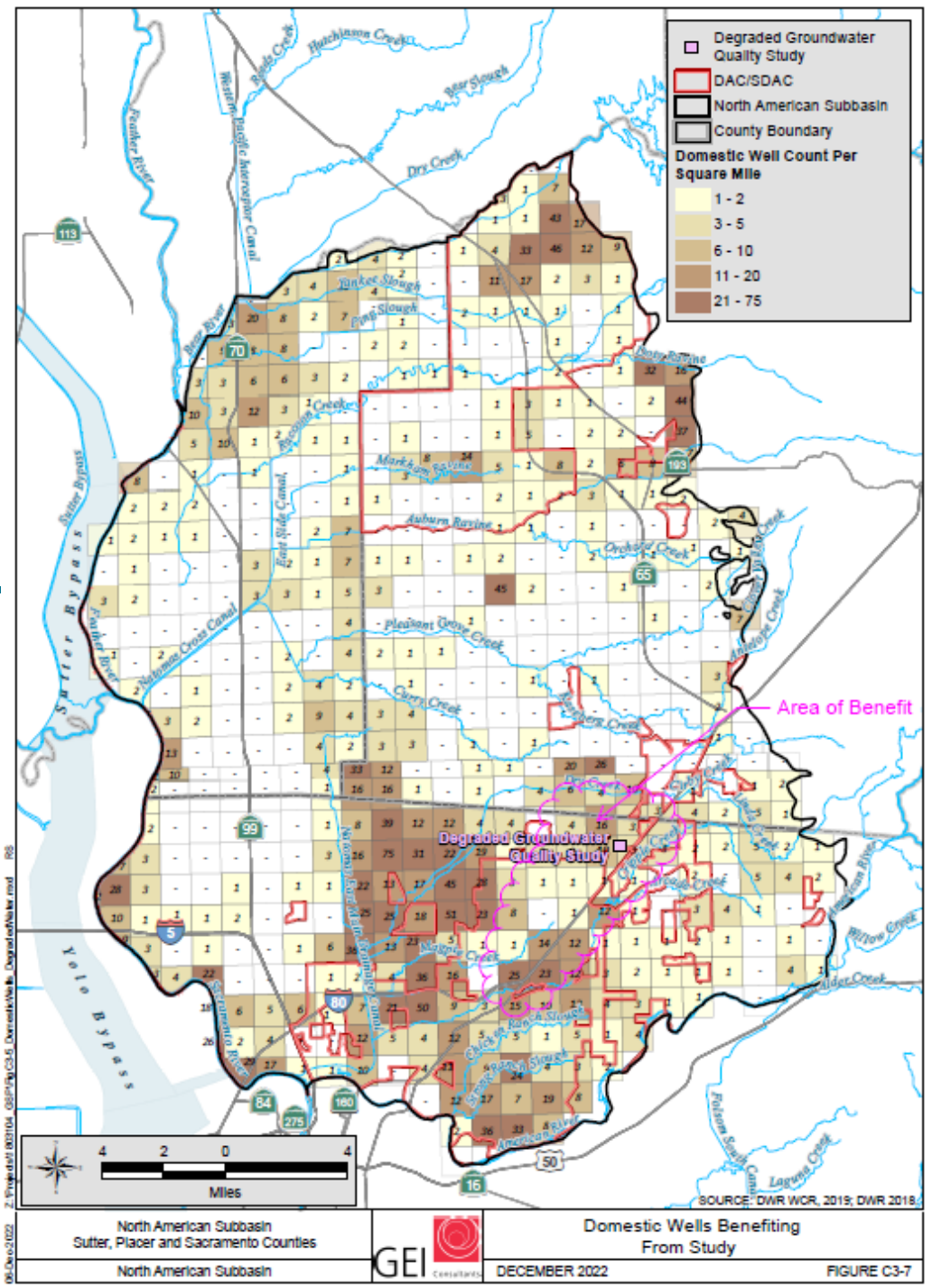

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Component 4 – Groundwater Monitoring Wells Construction

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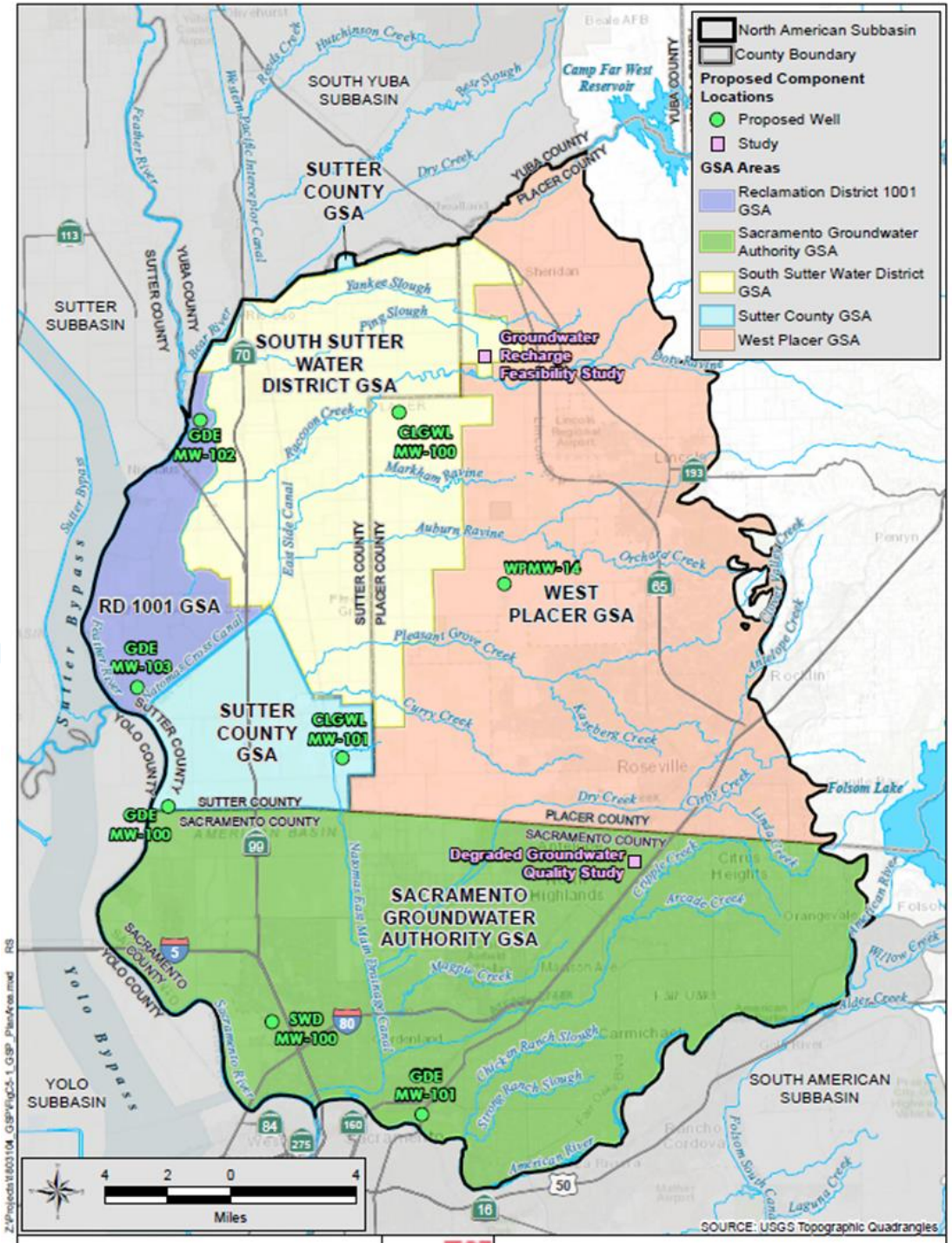
Component 4 – Groundwater Monitoring Wells Construction

COMPONENT 4: GROUNDWATER MONITORING WELLS CONSTRUCTION
This component will enhance the Subbasin's monitoring network by installing a minimum of seven dedicated monitoring wells. The wells will enhance the GSAs understanding of groundwater levels near priority GDE areas, near areas with high numbers of domestic wells and surface water depletion.



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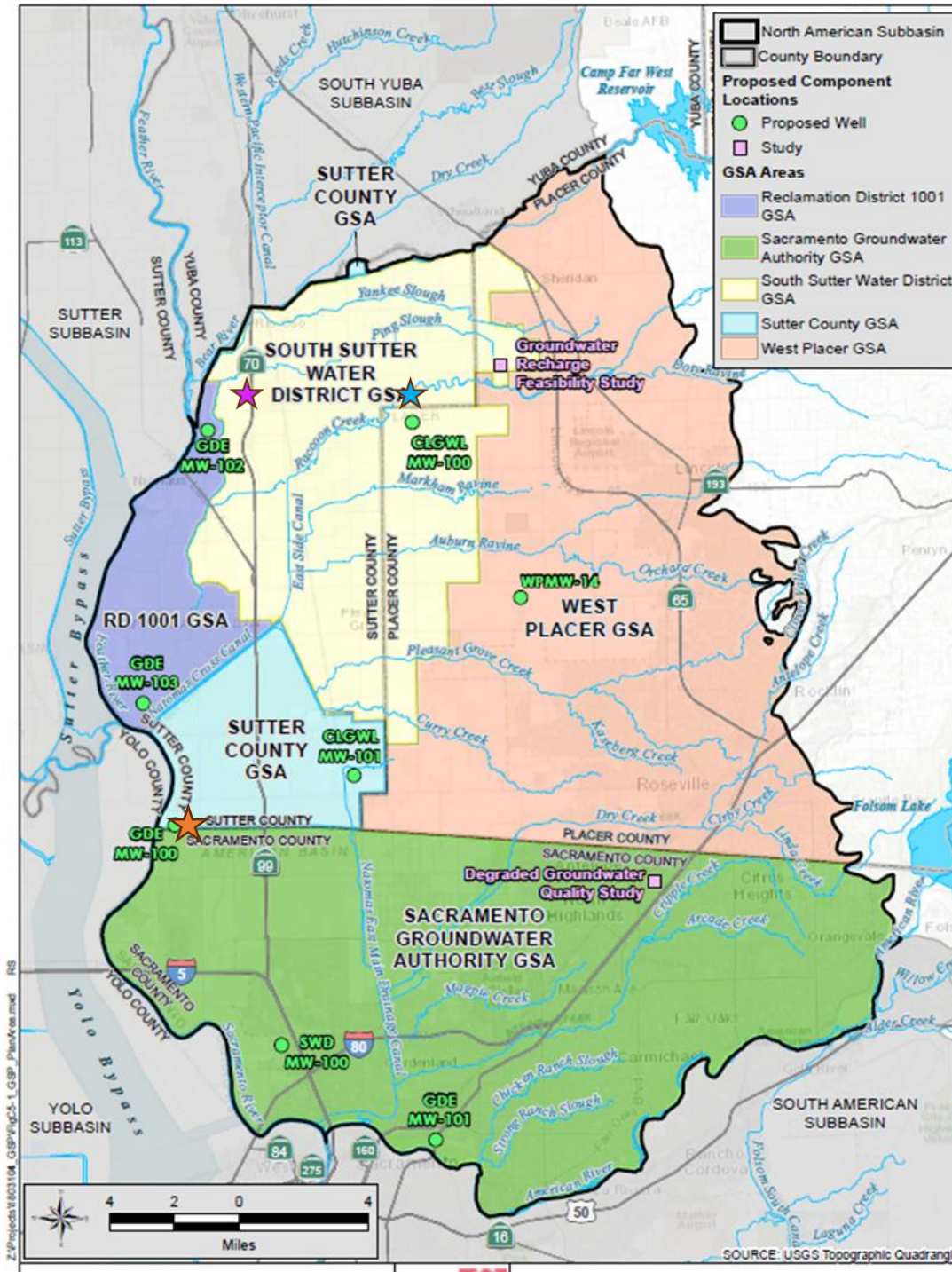
Component 4 – Addressing Data Gaps

NASb Grant *Proposed* Component #4 – Groundwater Monitoring Wells Construction addresses data gaps:

- Groundwater Dependent Ecosystems (GDEs)
  - ★➢ Proposed GDE MW-100 location - near existing well 128
  - ★➢ Proposed GDE MW-102 location – near existing well 78

- Chronic Lowering of Groundwater Levels (CLGWL)
  - ★➢ Proposed CLGWL MW-100 location - near existing well 112



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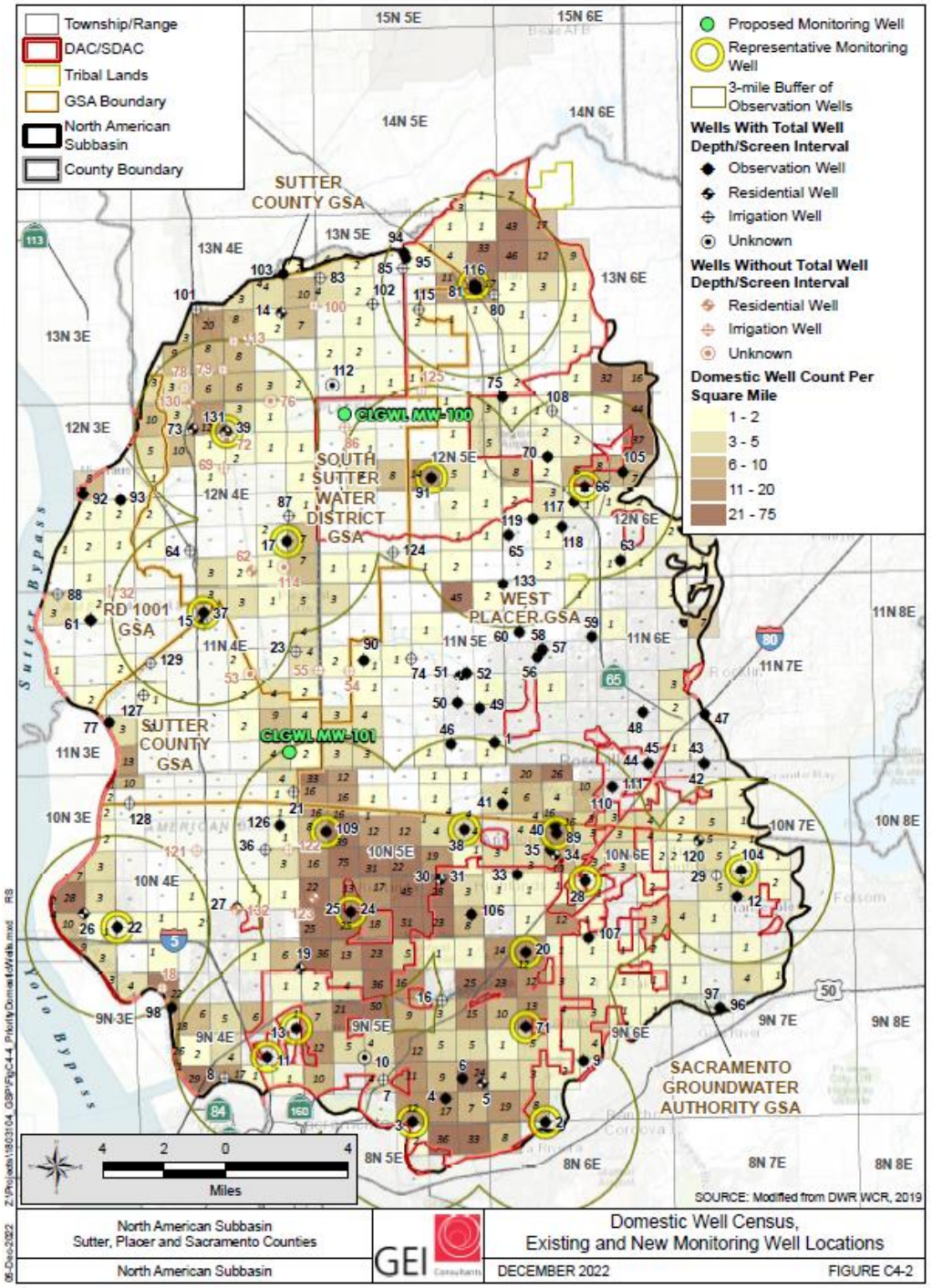
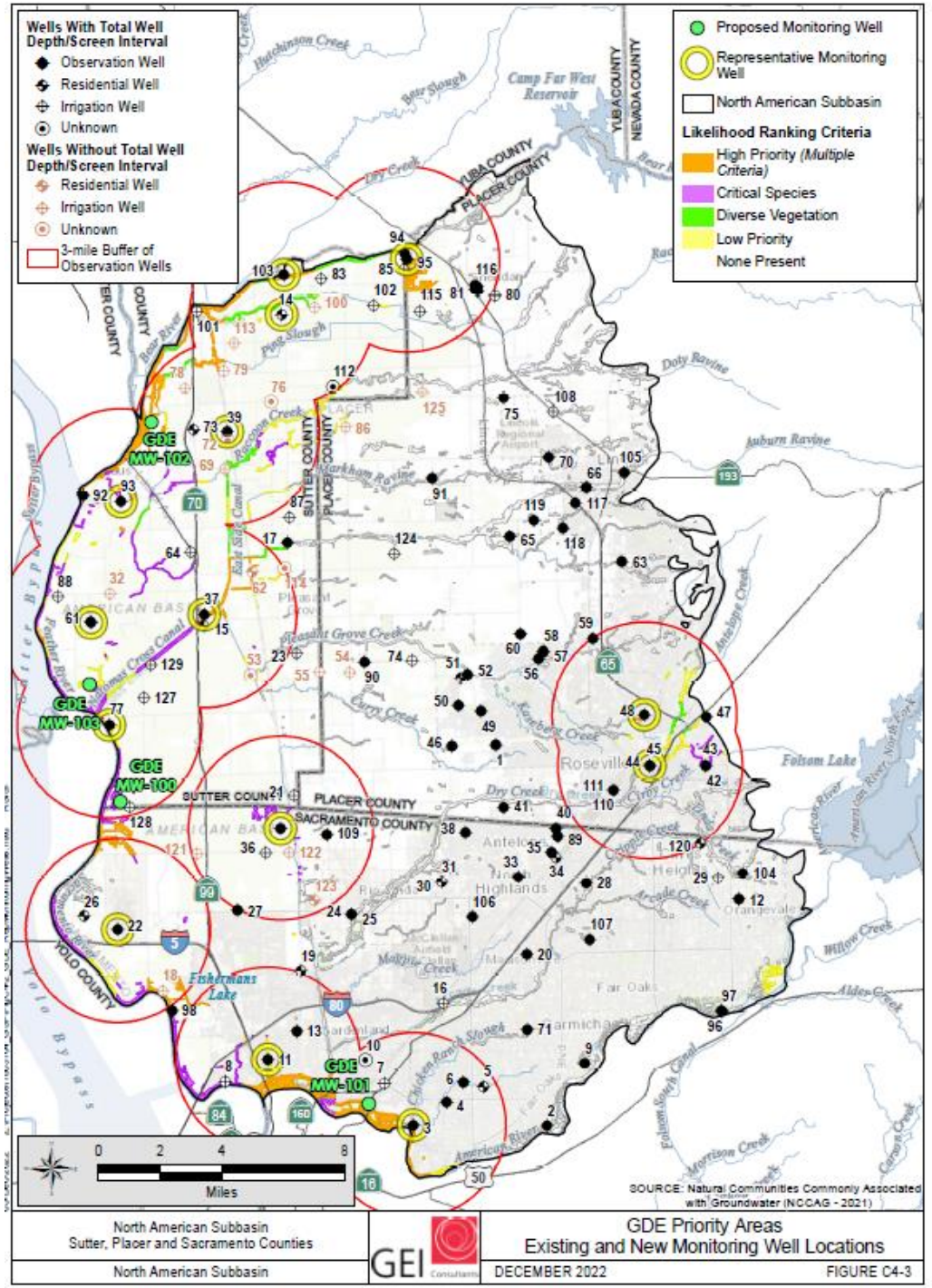
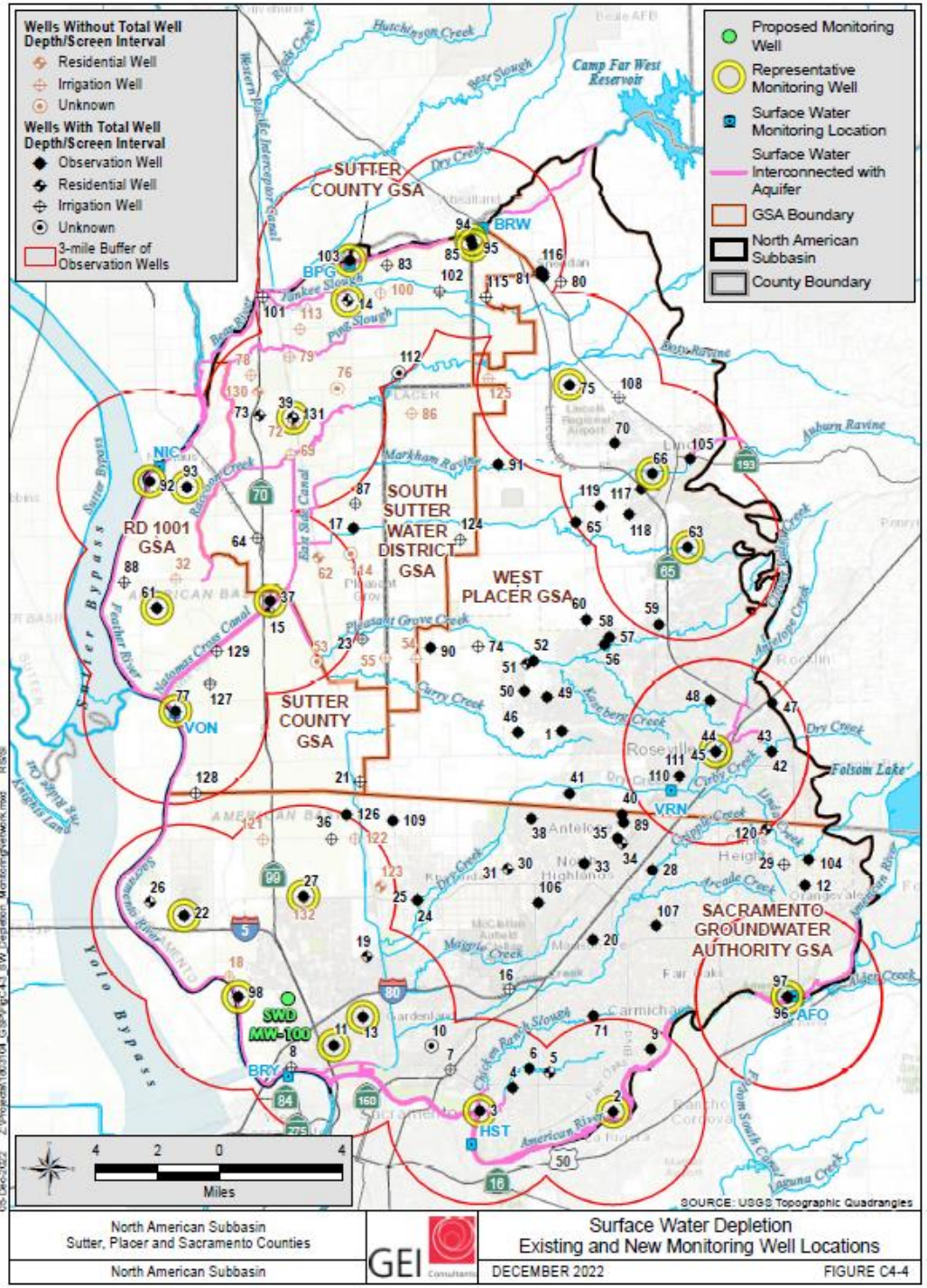
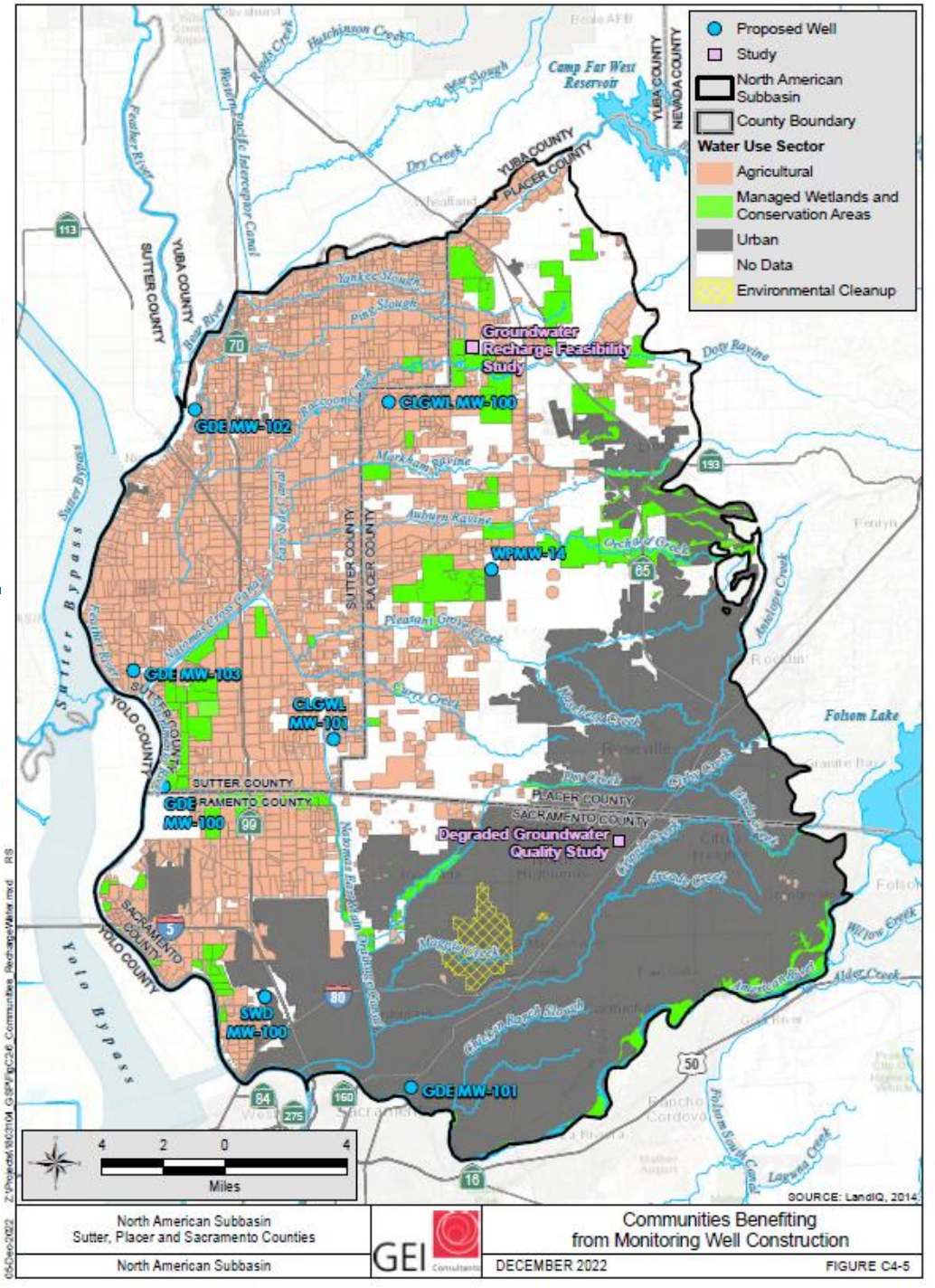
Component 4 – Area of Benefit



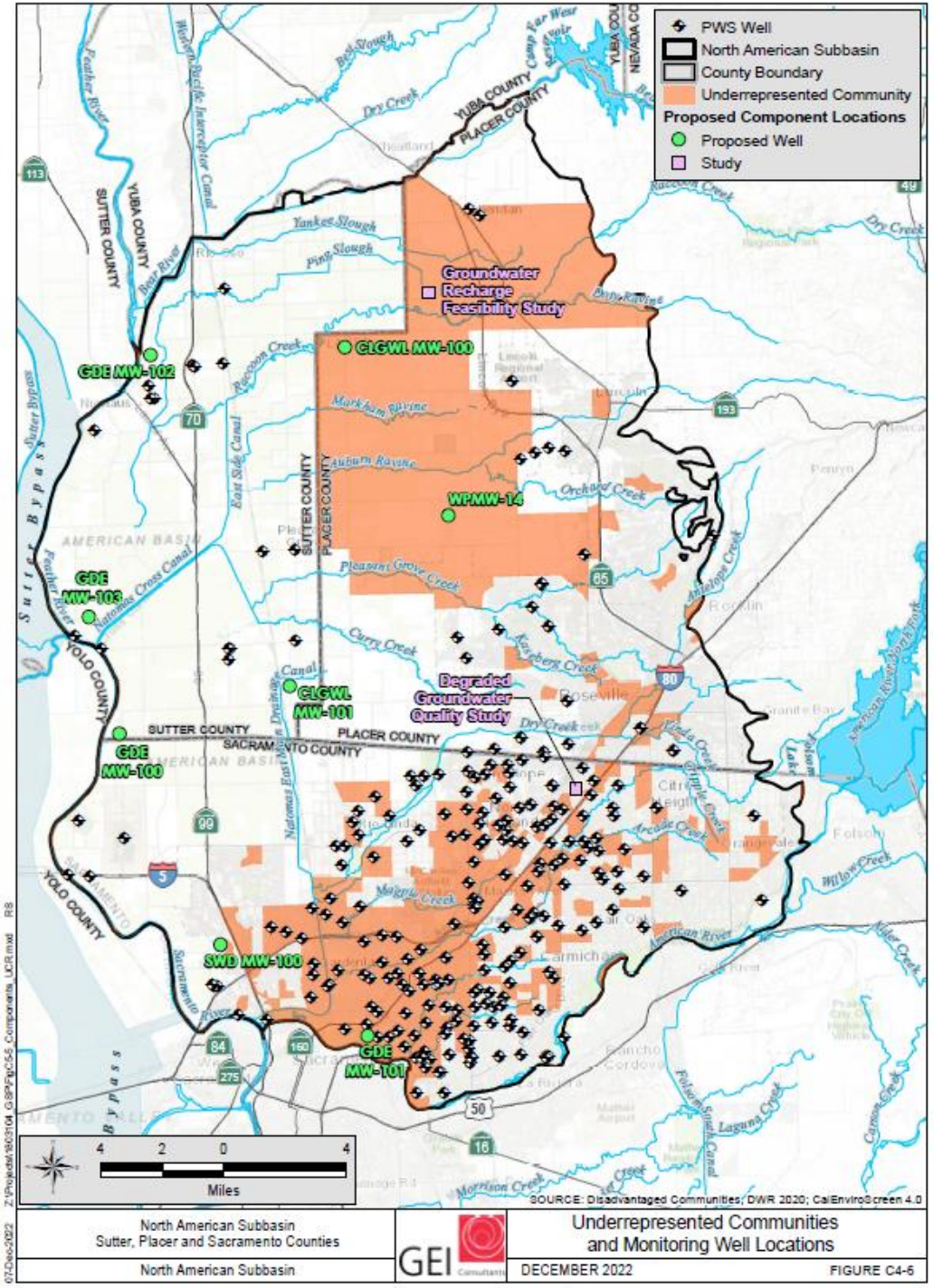


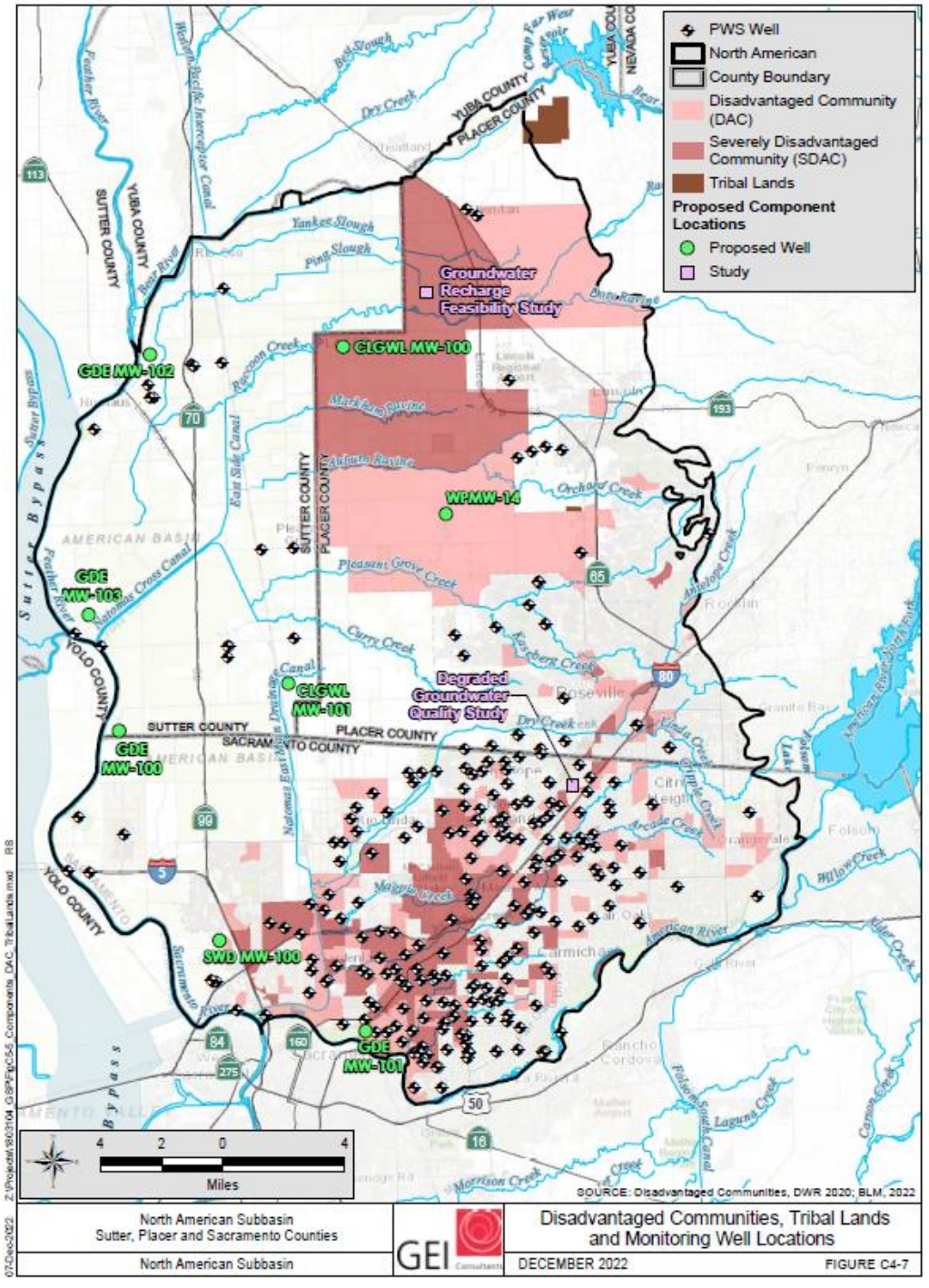
Component 4 – Area of Benefit





Component 4 – Area of Benefit





A Break for Questions/ Discussion

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Component 5 – Groundwater Monitoring Well/Emergency Supply Well

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Component 5 – Groundwater Monitoring Well/Emergency Supply Well

COMPONENT 5: GROUNDWATER MONITORING WELL/EMERGENCY SUPPLY WELL

This component will enhance the Subbasin's monitoring network by installing one dedicated monitoring well Data from the well will improve the GSAs understanding of groundwater levels where 45 domestic wells are present within one square mile. The proposed monitoring well will be constructed within an existing Placer County (one of five NASb GSAs managing the Subbasin) in a road easement. No lands will be purchased fc this Component.

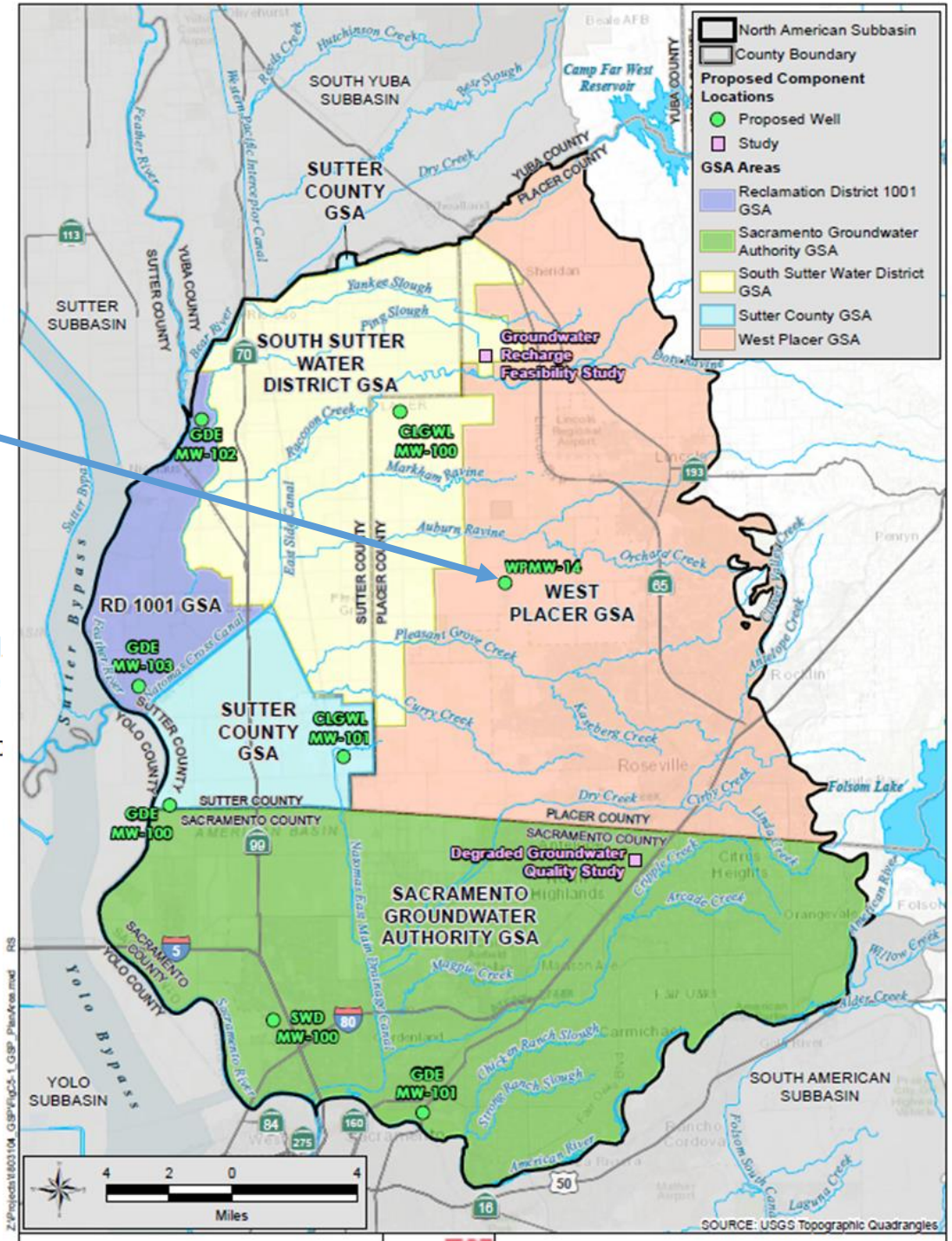

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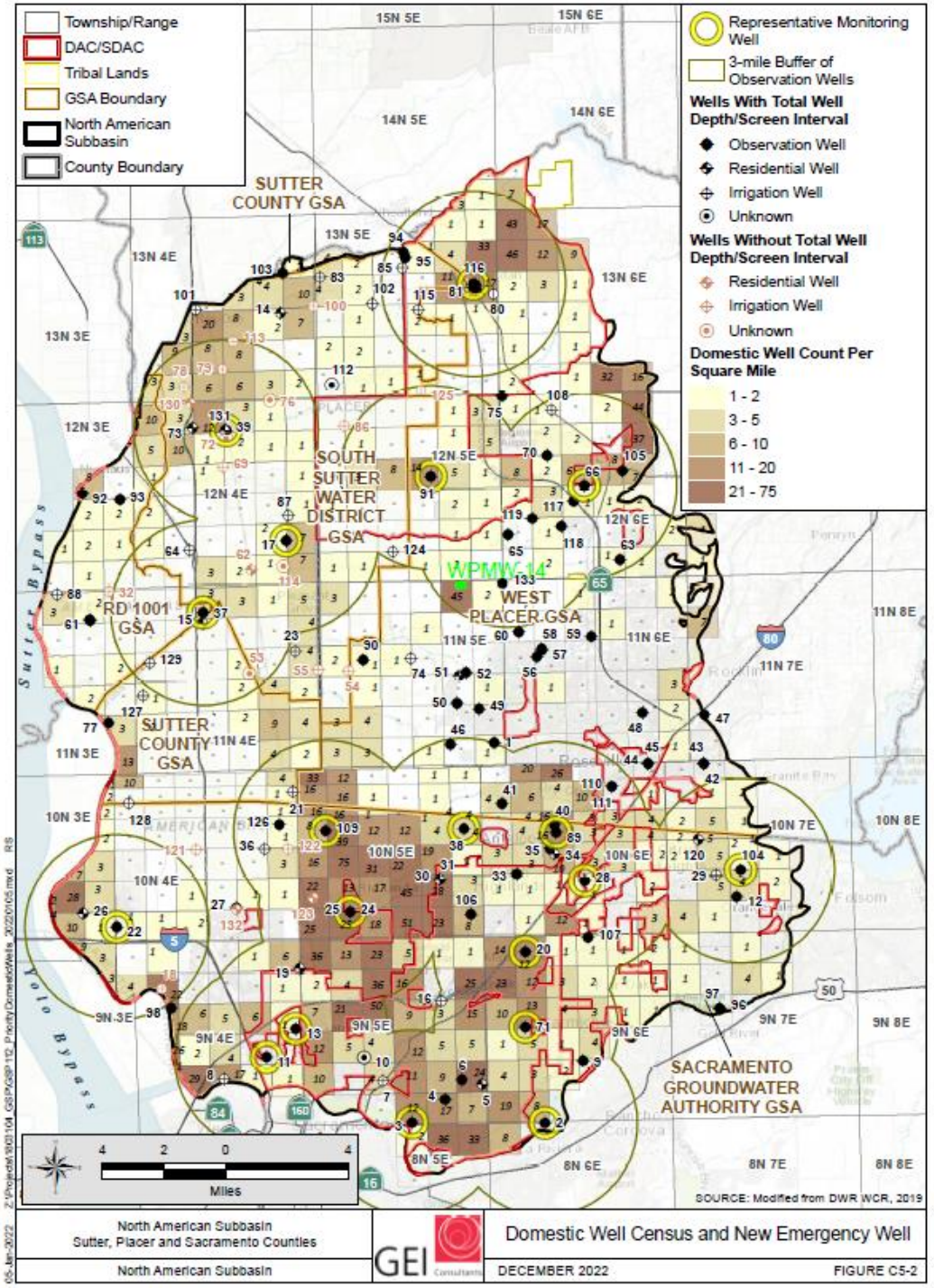
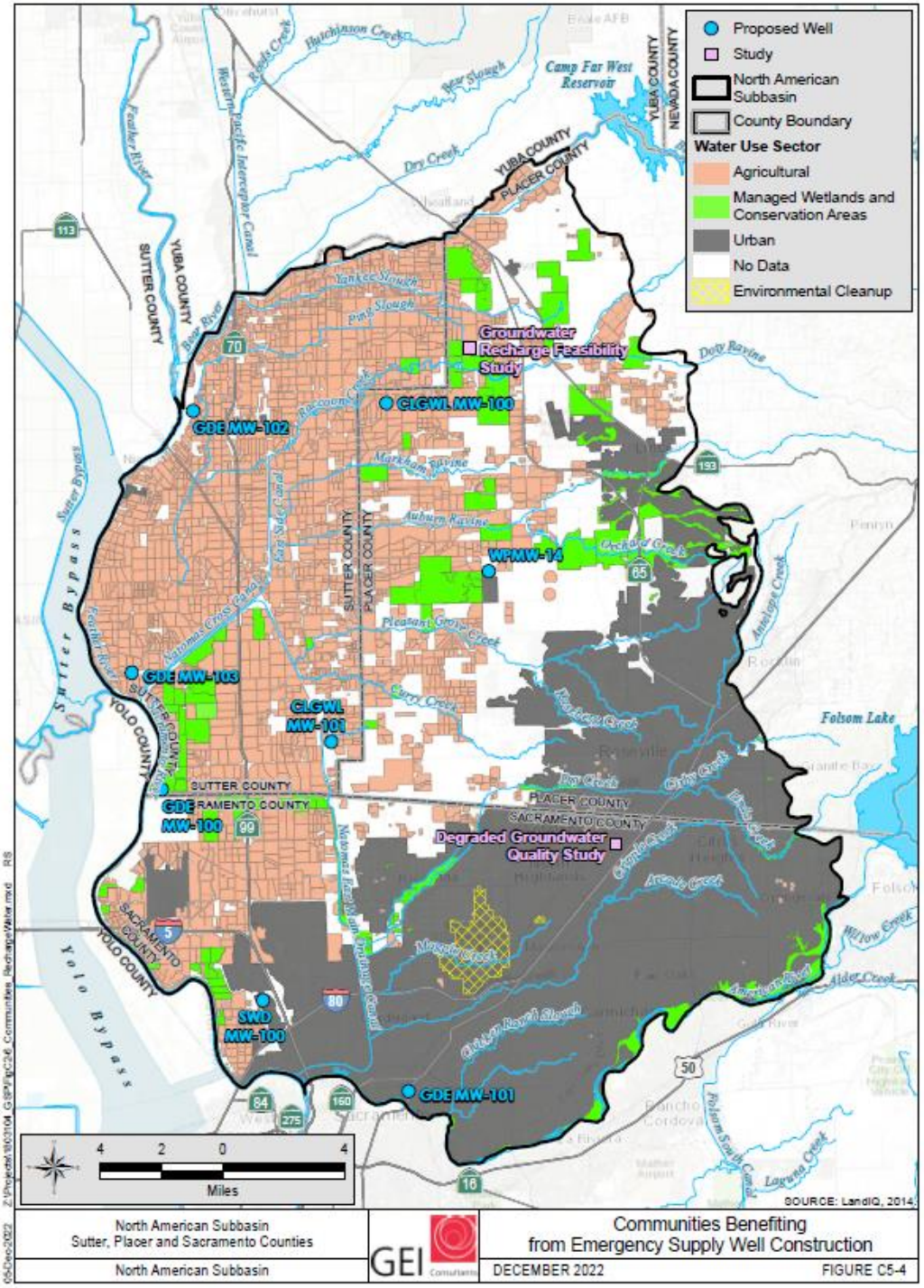
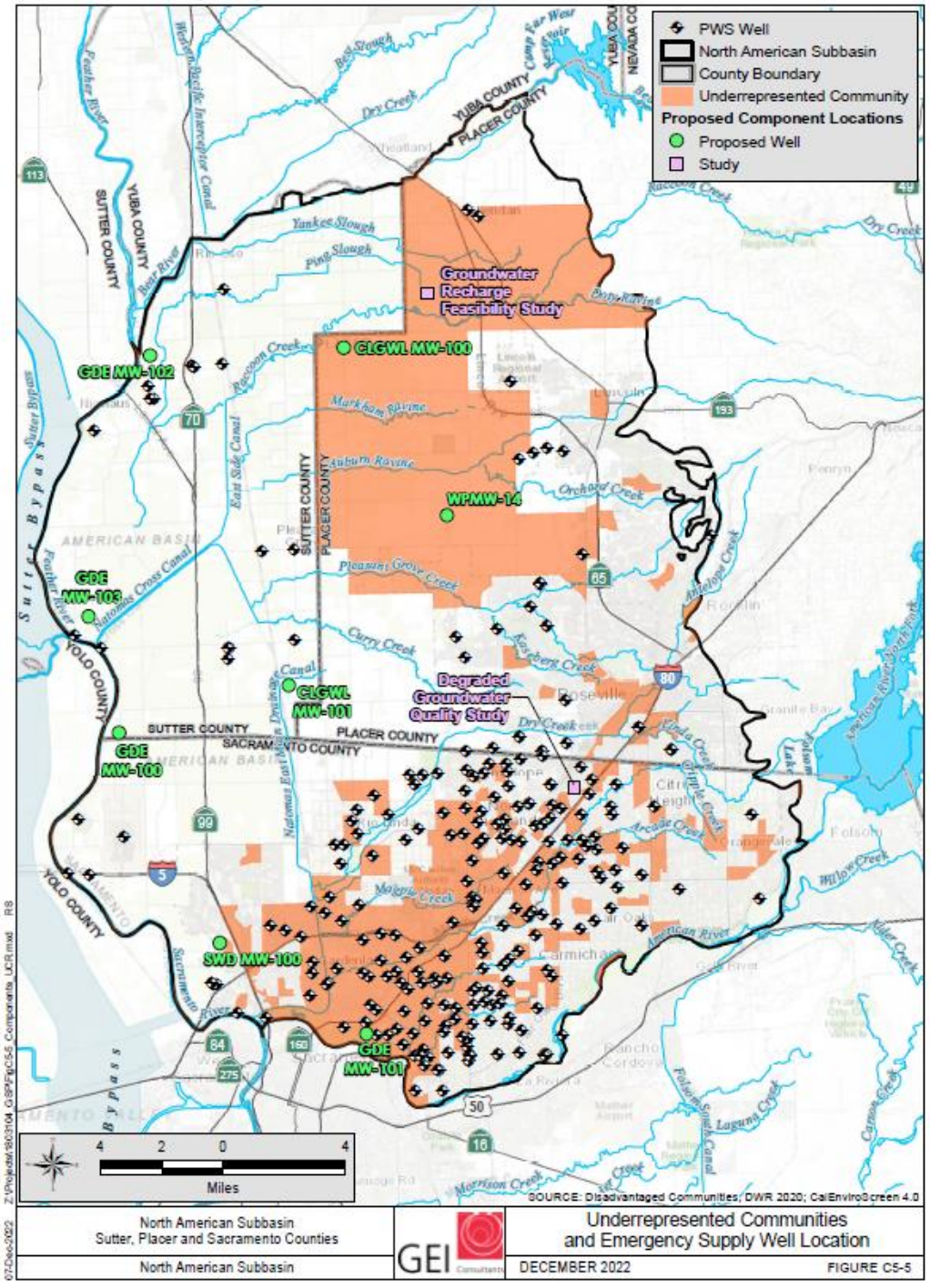
Figure C5-3. Emergency Supply Well Location and Current Site Details

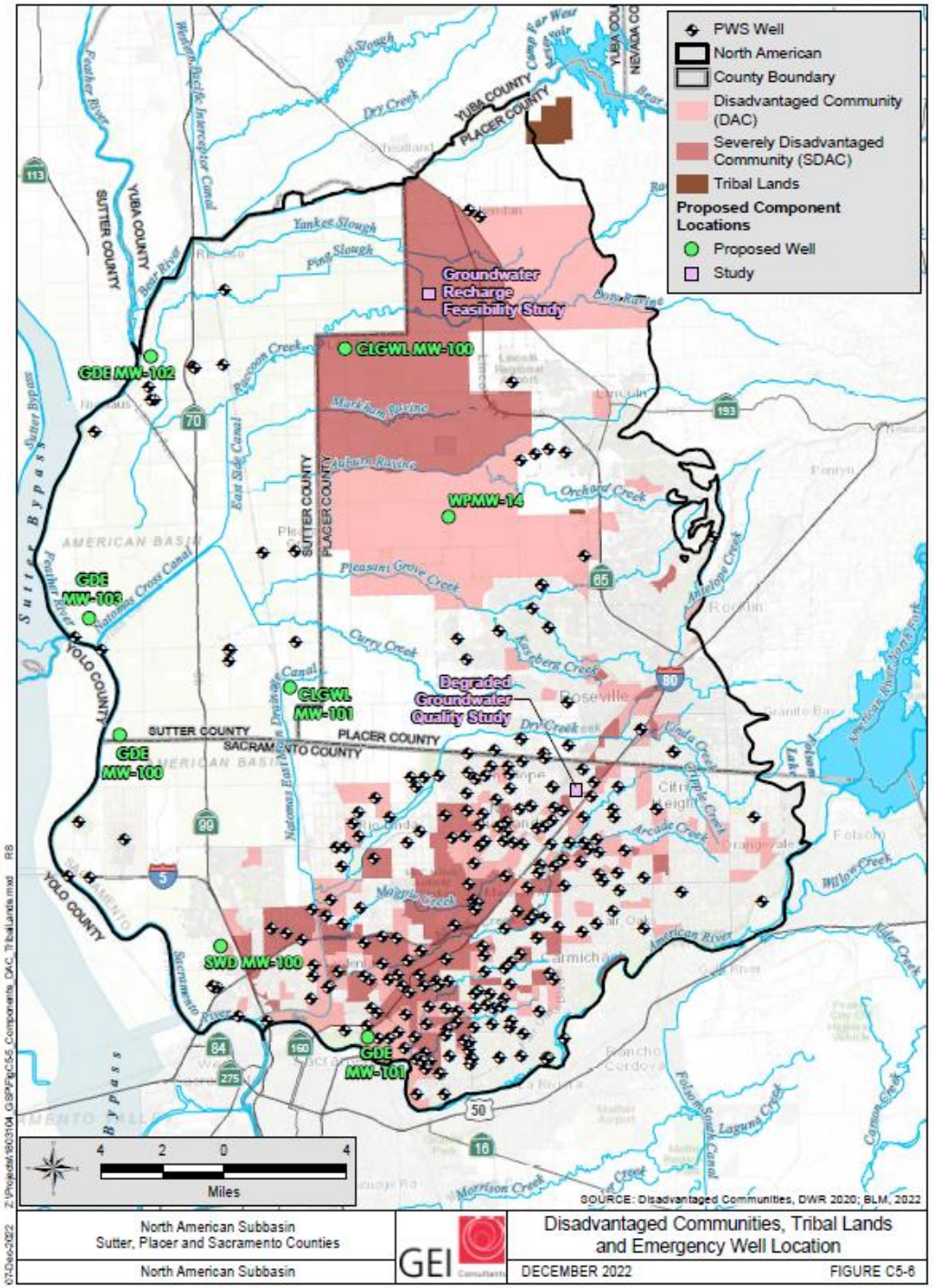
Component 5 – Proposed Location and Area of Benefit



Component 5 – Area of Benefit







Component 5 – Area of Benefit

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Final Break for Questions/ Discussion

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Thank you!

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