

RACCOON CREEK GROUNDWATER RECHARGE PROJECT



RECHARGE PROJECT DEFINED

Raccoon Creek Groundwater Recharge Feasibility Study

Series of field investigation activities to evaluate the suitability of the site for recharge

Alternative analyses for the most feasible approach to divert water from the creek and place the water into the proposed infiltration features

Preliminary design drawings, specifications and cost estimate for funding applications

Diversion permitting application and/or strategy for permanent permitting needed for long term funding commitments

Engage and outreach with stakeholders to share findings and obtain feedback



Aligned Conservation Goals: Landowner/PCCP/Project Proponent have complementary goals



Confidence: All parties supportive of the Project to be created and have aligned timelines



Joint Funding: All parties have access to funding



Parallel Permitting: All parties can prepare cross purpose permits to streamline process



Permanent Benefits: All parties desire to have long lasting/far reaching benefits for conservation and agriculture in western Placer County

PROJECT PARTNERSHIP

NID

DIVERSION STRUCTURE

Area #1
-Beginning of defined channel

Area #1 Looking northeast /
swale upstream of defined chnl

Area #1 Looking southwest /
beginning of defined channel

NID

LARGE POND
5-24

Raccoon Creek Ranch
Placer County, CA

Area #2 Looking northeast /
creek above diversion structure

Area #2 Looking northwest /
diversion structure & pipe

Area #2 Looking west /
diversion structure

Area #2
-Diversion/bridge structure

Area #5
-Diversion structure

Area #5 Looking southwest /
diversion structure

Area #5 Looking north /
diversion toward pond

Area #3 Looking northeast /
creek cut bank

Area #3 Looking southwest /
creek cut bank

Area #3
-Creek cut bank

Area #4 Looking northwest /
beyond diversion structure

Area #4 Looking south /
domestic well

Area #4 Looking northwest /
diversion structure

Area #4
-Domestic well & irrigation pump

Additional notes:
1) Water used @ area # 2 is purchased from NID by rancher. NID flows are diverted NE beyond scope of this map
2) There are no additional purchasers of NID diversion waters downstream of proposed project site

NEEN 65

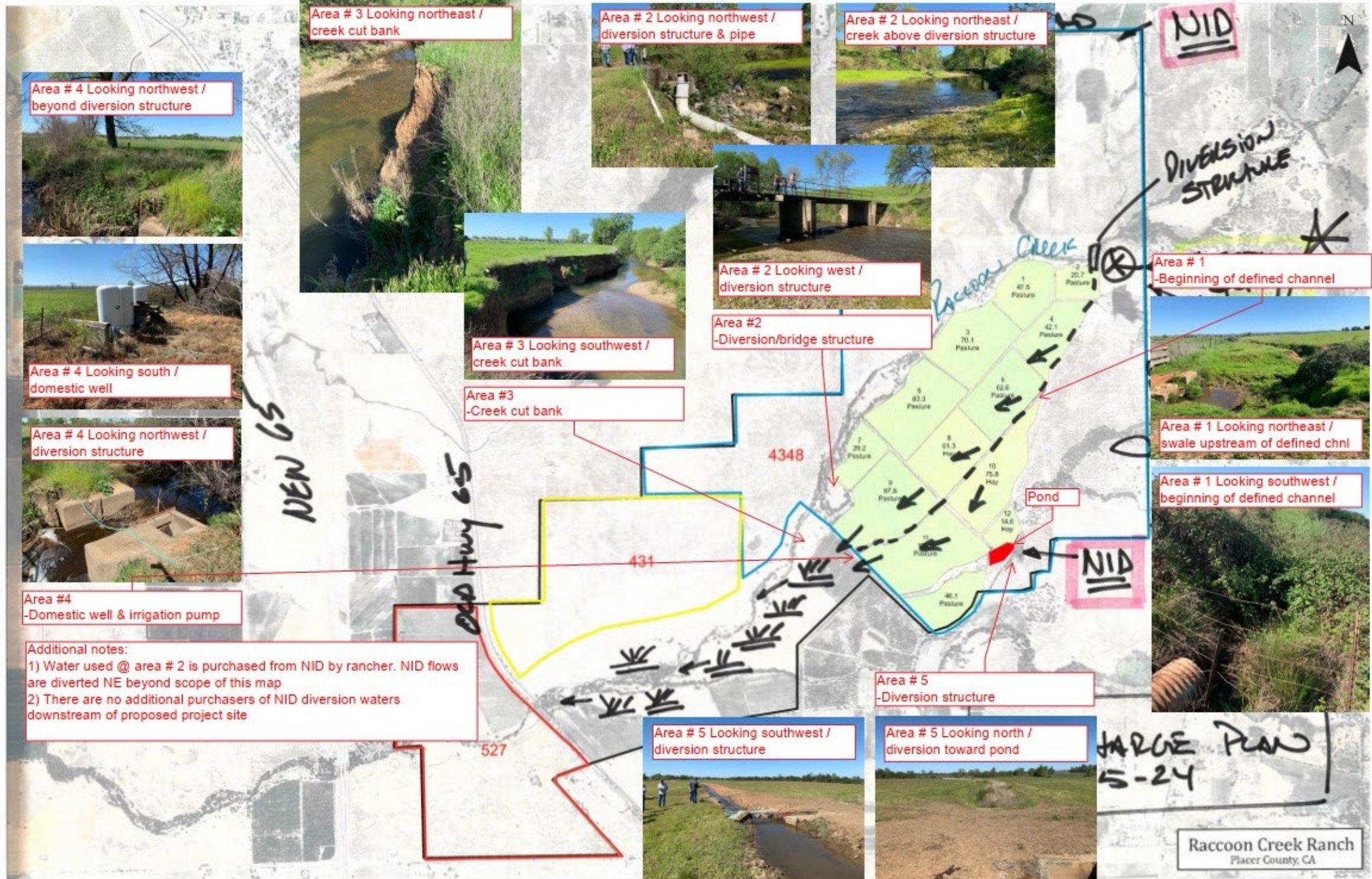
65 Hwy

527

4348

431

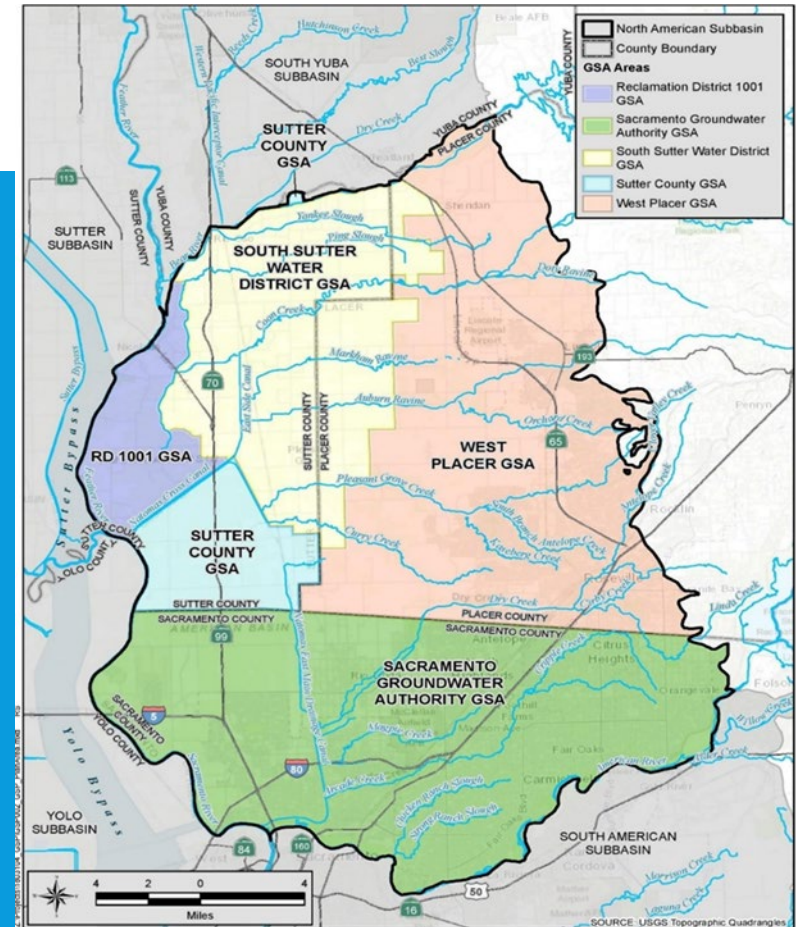
Pond



RELEVANCE

SGMA = SUSTAINABILITY = GROUND WATER RECHARGE PROJECTS

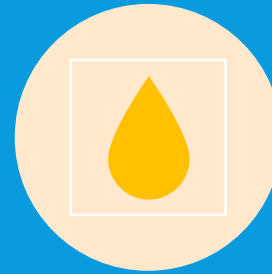
- North American Subbasin (NASb)
 - 2022 Groundwater Sustainability Plan (GSP) Recognized Future Projects (approved by the state)
 - 2023 Department of Water Resources (DWR) Grant Opportunity (won the Grant)
 - 2024/25 Recharge Feasibility Study (Project Launched 4/1/2024)
- Western Placer Groundwater Sustainability Agency (WPGSA)
 - Analyzed and prioritized at least 30 projects in 2022/2023
 - Currently two projects are in development
 - Desire to get at least 10 (or more) developed in the next several decades
 - Locations near or on conservation and agricultural lands (greatest need for groundwater)



PROJECT BENEFITS



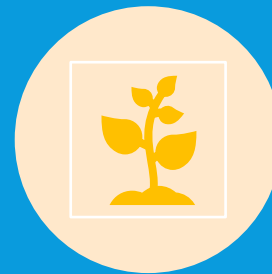
Increase the groundwater levels for Subbasin sustainable



Recharge groundwater supplies for agriculture, conservation and groundwater dependent ecosystems (GDEs)



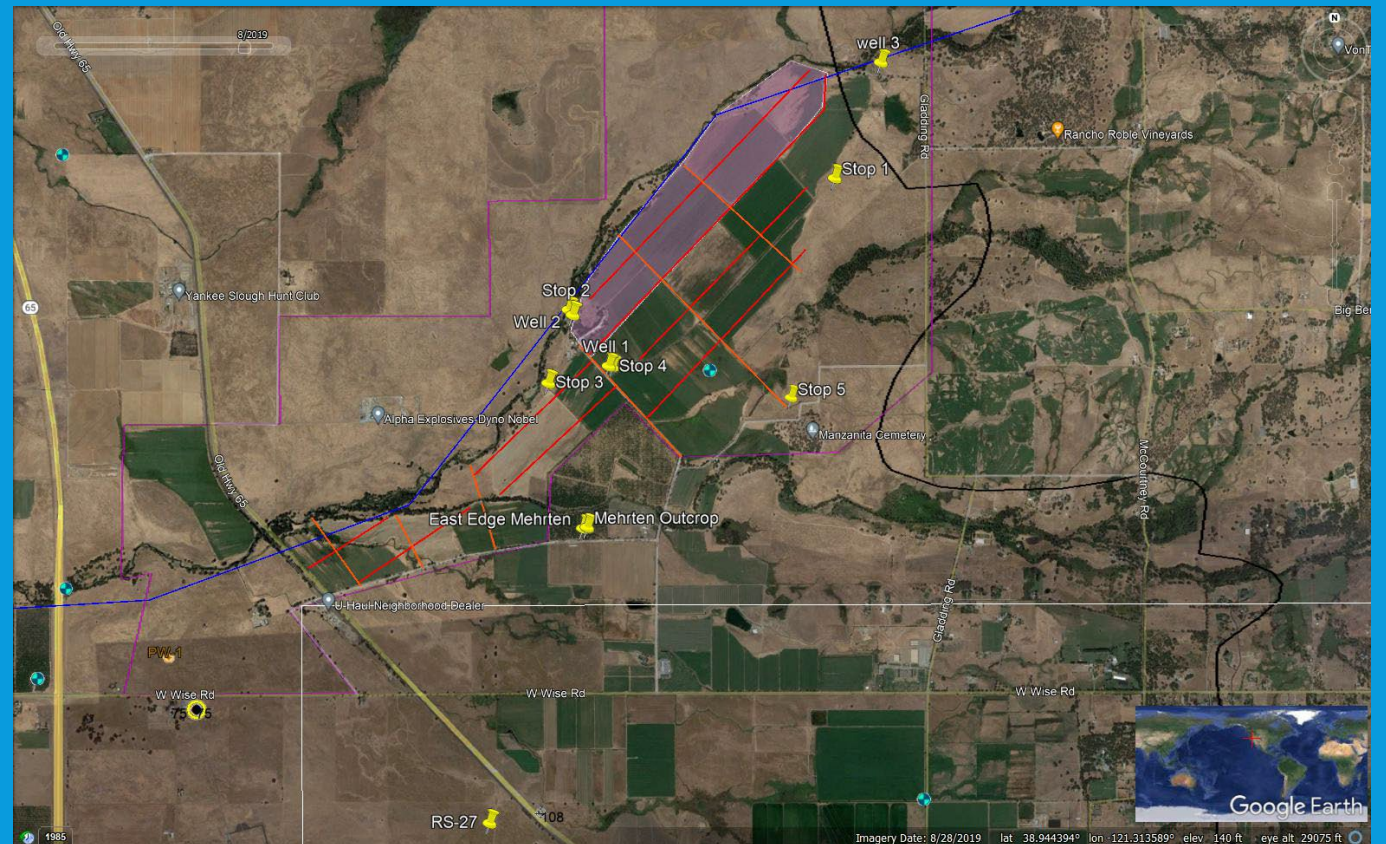
Supplement supplies for emergency / drought related needs



Banking groundwater for future needs

PROJECT PLAN

- Land Conservation Strategy
- Recharge Area Survey
 - Towed TEM
 - Geotechnical Borings
 - Water Percolation Study
- Water Conveyance Pathways
 - Diversions
 - Pumps
 - Natural Shaping
- Conceptual Design
 - Conceptual Layout
 - 30% Design Drawing



PERMITTING STRATEGY



Current State Water Board Process

Temporary: Can apply for and have approved by State Water Board an annual permit

Permanent: Long process that is not guaranteed by SWB, typically takes 7 to 10 years



Alternative Approach:

Apply this pilot project to the rigors of getting funding approved locally

Prepare strategy to modify SWB process by working with local and state agencies to find a solution that allows for a permanent permit (with conditions) that can be approved when funding is approved by local Board.



Local Stakeholders

Local ranchers
Environmental groups
Water right holders
North American Subbasin
GSAs



Regional Agencies

Local public agencies
Conservation agencies
Water Bank Agency
Agricultural Commissions



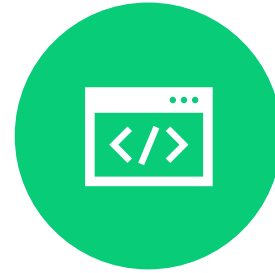
Advocacy for Legislation / Regulation Improvement

Site visits to show benefits
Structure new permitting
process
Ensure that floodwater,
recycled water, reclaimed
water is easily utilized
Wet and Dry year recharge

ENGAGEMENT STRATEGY



Streamline Recharge
Permitting



Full Project Design &
Implementation



Funding



Water Rights /
Purchase Water

NEXT PHASES / ISSUES