



Vina Groundwater Sustainability Agency
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October 13, 2020

To: Vina Stakeholder Advisory Committee

From: Paul Gosselin

Re: Initial Discussion of Potential Projects and Management Actions (PMA)

The Vina Stakeholder Advisory Committee (SHAC) will have an initial (“brainstorming”) discussion of PMAs at the October 20, 2020 meeting. An innovative online tool, Miro Board, will be used to guide the SHAC discussion. The purpose of the initial discussion will be for the SHAC to begin the process of developing recommendations to the Vina Groundwater Sustainability Agency (GSA) by the spring of 2021. To foster the Vina SHAC discussion, I am providing an outline of the types of PMAs included in other submitted groundwater sustainability plans (GSP). Many GSPs include a broad set of PMAs related to achieving measureable objectives, other management actions and filling data gaps (e.g., shallow monitoring wells). The initial SHAC PMA discussion will focus on PMAs that will address measureable objectives. The Vina GSP will include priorities to address data improvement and program management. The following is a list of PMAs from submitted GSPs. We encourage the SHAC members raise other ideas or concepts.

- a. Recharge
 - i. FloodMAR
 - ii. Recharge basins
 - iii. Field Flooding
 - iv. Stormwater recharge (land application)
 - v. Waste Water recycling (land application)
 - vi. In-Lieu Recharge (import surface water supply)
 - vii. Injection wells
 - viii. Upper watershed management
 - ix. Considerations
 - 1. Banking
 - 2. Manage future use
 - 3. Ownership
 - 4. Other
- b. Demand Management
 - i. Incentive based Groundwater Pumping Reduction (Conservation)
 - 1. Agricultural Conservation

- 2. Urban Conservation
- ii. Groundwater Pumping allocation (requires metering)
 - 1. Groundwater pumping fees above allocation amount
 - 2. Water trading (cap and trade)
- iii. Well Moratorium
- iv. Land Use/Zoning/Ordinances
 - 1. Low Impact Development
 - 2. Gray Water
 - 3. Impervious surfaces
 - 4. Domestic ell depths
- v. Voluntary land fallowing
- vi. Non-native vegetation removal
- c. Augment Stream Flows (environmental water purchase)
- d. Domestic Well Mitigation
 - i. Deepen wells
 - ii. Connect to an existing water purveyor

These are presented as examples and not as a recommendation from the Management Committee. We strongly encourage other ideas or concepts for discussion.

I am providing a link to some of the submitted GSPs. The GSP document can be found half way down the page. The description of the specific PMAs will provide the context of what gets submitted in a GSPs.

- Paso Robles GSP (<https://sgma.water.ca.gov/portal/gsp/preview/35>)
- Chowchilla GSP (<https://sgma.water.ca.gov/portal/gsp/preview/12>)
- Mid-Kaweah GSP (<https://sgma.water.ca.gov/portal/gsp/preview/50>)
- Eastern San Joaquin GSP (<https://sgma.water.ca.gov/portal/gsp/preview/47>)

You can view other submitted GSPs at the Department of Water Resources' GSP Portal at <https://sgma.water.ca.gov/portal/gsp/all>

Other resources provided as background include:

- Colusa County Multi-benefit Groundwater Recharge Program
- FloodMAR Fact Sheet
- "Groundwater Recharge Projects: Considerations for Water Managers and Neighboring Landowners" (2020)
- "Evaluation of Restoration and Recharge within Butte County" (2018) (excerpt) (https://www.buttecounty.net/wrcdocs/Reports/SpecialProjects/GWRecharge/Recharge_Eval.pdf)

The initial PMA discussion will be the first of many steps that the SHAC will engage in to develop a set of recommendations for the Vina GSA Board.