

Overview of Project & Management Actions Under Consideration

SWAG Meeting #3, Dec. 4, 2020

Goal and Approach to PMAs

- Goal: Manage groundwater levels at or above 2015 levels
- Approach to developing suite of PMAs
 - Initially, fallowing serves as a foundational management action
 - Over time, winter recharge becomes the main way we plan to reduce deficit
 - For starters, Sac River water via Freeport Canal and FSC
 - Later, as part of SAFCA Flood MAR program, American River water from Nimbus and FSC
 - Over time, smaller PMAs add to the mix of projects

Following

- Primary PMA in early years
- Estimate of 2500 acres involved, voluntary participation, payment of \$400 (TBD)
- Key areas: throughout basin
- Estimated cost: \$1M funded from pumpage fee
 - Pumpage fee: subject to 218 challenge via majority protest process (no vote required)

Farmland Recharge

- Approx. 2000 acres used to infiltrate water from Sac River (2024 - 2027) and American River (2027-2042) via Folsom South Canal (FSC)
- Payment to farmers every year whether water available for infiltration or not
- Initially provides ~4000 AFY on average for recharge
- Over long term, provides ~12,000 AFY on average for recharge
- Part of SAFCA Flood MAR program

Cosumnes River Flow Augmentation

- Approx. 1500 AFY obtained from Central Valley Project via SMUD for pre wetting of river
 - Estimated 600 AFY credited to Cosumnes Basin
 - Needs confirmation from modeling
- Provides a combination of environmental and groundwater benefits

Folsom South Canal dry wells

- Construct approx. 50 dry wells in FSC right of way
- Estimate 1 AF/day infiltration rate, total of 4000 AFY on average
- Part of SAFCA Flood MAR program
- Pilot project currently underway in So American basin to test feasibility

Galt WWTP winter water re-use

- Use secondary treated water to spread on ag lands in vicinity of Hwy 99 and Twin Cities Road
- Estimate 1200 AFY available

Other PMAs – at various stages of development

- Multiple other decentralized possibilities
 - Stock ponds/recharge basin
 - Simple dry wells
- Recharge net metering
 - Farmers receive pumping fee credit for using river water in place of groundwater
- Harvest Water Program – Regional San
 - Could provide up to 2000 AFY (very preliminary estimate) from recharged N of Cosumnes

Possible Financing Options

- Parcel Fee – Sac Co., under authority of water code; all landowners with wells, finances administrative costs
- Pumpage Fee – Estimate \$10 AF for non-residential pumps, finances fallowing program
- Groundwater Banking
 - Sell portion of water saved from fallowing to water purveyor
 - Estimate price: \$500+ AF
 - Finances recharge water from SAFCA Flood MAR program and all other non-fallowing PMA's

Proposed Water Budget – early years

2022-2027	Annual volume (AF)
Reduction in demand due to fallowing	6700
FSC ag recharge from Sac River	4000
GW bank credits for water purveyor	-4000
OHWD Cos Riv water augmentation	600
Net available for Cosumnes deficit reduction	7300

Proposed Water Budget – 2027 -2042

2027-2042	Annual volume
Reduction in demand due to fallowing	6700
FSC ag recharge from American River	12000
FSC dry well recharge from American River	4000
GW bank credits	-6000
OHWD Cos Riv water augmentation	600
Galt WWTP reuse	1200
Other PMAs TBD funded from reserve	4000
Net available for Cosumnes deficit reduction	22500

Your comments and suggestions....