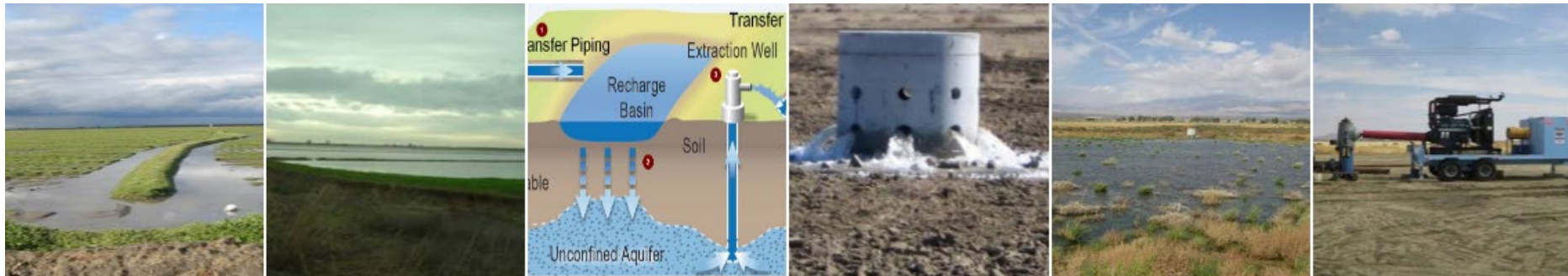




Willow Springs Water Bank

WSWB Conjunctive Use Project Early Funding Proposal

**Mark Beuhler, PE
General Manager**



10/21/2020

Progress Towards Final

Award:

- Technical and Feasibility Work
- Agency Coordination
- Negotiations with AVEK
- Energy Grants and Developments

Figure 1 - Schematic of Willow Springs Water Bank Conjunctive Use Project

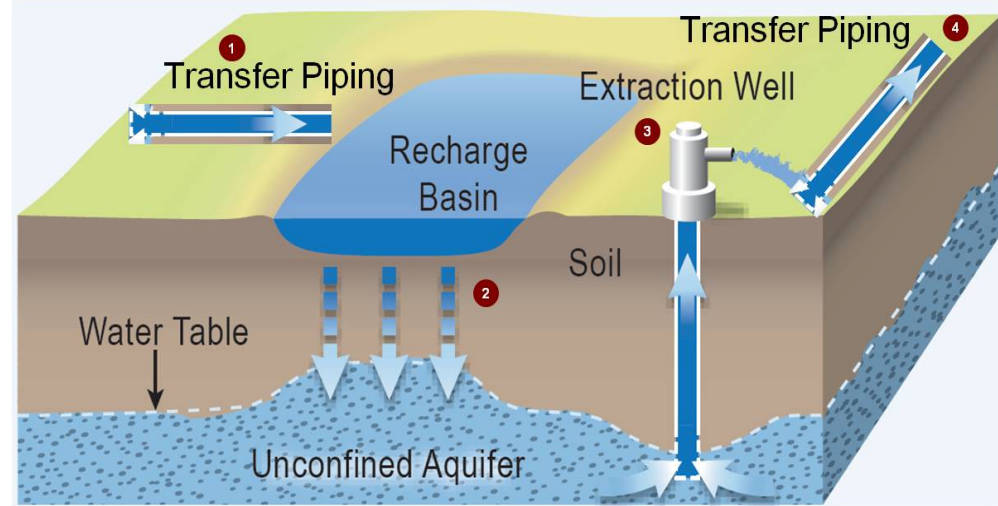




- **Early funding needed to meet statutory requirements of WSIP and to maintain aggressive implementation schedule**
- **Impacts of COVID-19 have reduced the ability to spend**

CONSISTENCY WITH REGULATION

- **Early funding to be spent on soft costs associated with:**
 - **Environmental Documentation**
 - **Feasibility Studies**
 - **Permitting**
- **Emergency findings specifically refer to feasibility studies for WSWB in the rationale**
- **Implementation risk score of 10/15 (minimum score of 7 required for early funding)**



Simple pipe, pond, and well construction rapid online date and reduces overruns.



WSWB PROVIDES ENERGY BENEFITS TOO

- WSWB is co-located with 640 acres of solar arrays
- Wells will use onsite storage to pump only during off-peak periods
- Water/Energy Bank concept proved with CEC grant – reduce peak pumping at Edmonston
- New CEC grant to develop “Aquifer Pumped Hydro” – use wells to generate electricity



Onsite
solar
arrays



Edmonston Pumping Plant is the largest user of electricity in California, can shift deliveries



How we intend to use early funding

Reimbursable cost:

- **CEQA Addendum completed 2018 (\$243,000)**
- **Preliminary Operations and Permitting Plan Completed 2020 (\$368,000)**
- **Well Field Design and Groundwater Quality Monitoring Completed 2017 (\$102,000)**
- **Total = \$713,000**

Future Eligible Cost:

- **Environmental documentation for pulse flows and pre-delivery of water from San Luis Reservoir (\$750,000)**
- **Permits and Agreements (3 subtasks totaling \$1.9M)**
- **Feasibility and Technical Studies (2 subtasks totaling \$1.4M)**
- **Total = (\$4,050,000)**



Immediate and Eligible:

- Finance CEQA documentation for pulse flows
- Feasibility and technical studies needed for permitting, planning will start immediately
- Update CalSim modeling per DWR request
- Update CalSim for Pre-delivery from San Luis Reservoir
 - Note: original modeling was done to confirm eligibility with WSIP and not operational optimization
- Continue and increase coordination with administering agencies to develop public benefit contracts.
- Begin preparation of all necessary state, federal and local permits and agreements

ASK: AWARD THE 5% ELIGIBLE AMOUNT

- **MCED=\$95,405,999**
- **Eligible Reimbursable Costs to date = \$713,000**
- **Eligible Future Costs = \$4,050,000**
- **Total Eligible Costs=\$4,763,000**
- **5% early funding= \$4,770,300**



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**WSWB is 5 miles north of Antelope Valley
Poppy Reserve**