## Integration of Sites Reservoir Operations with the Kern Fan Groundwater Storage Project

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#### **Presentation Agenda**

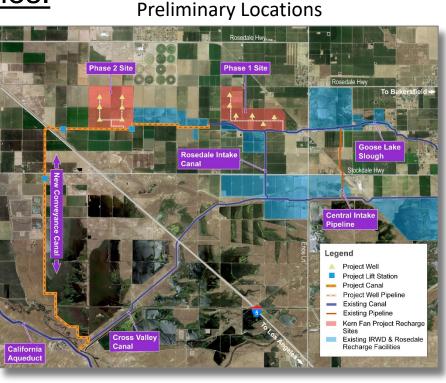
- Overview of Kern Fan Groundwater Storage Project
- Sites integration concept
- Generating additional environmental benefits by exchange
- Example of integration operations
- Impacts on Sites carryover storage
- Discussion

#### Kern Fan Groundwater Storage Project

#### **Banking Components and Facilities:**

- ✓ Aquifer (100,000 AF of storage)
- ✓ Land: 1,050 acres for recharge (100,000 AFY)
- ✓ Water Supply (Unallocated Article 21 water)
- ✓ Recovery: Up to 12 wells (70 cfs, 50,000 AFY)
- ✓ Conveyance: New 10 mile canal with 3 lift stations
  (Turnout from California Aqueduct)

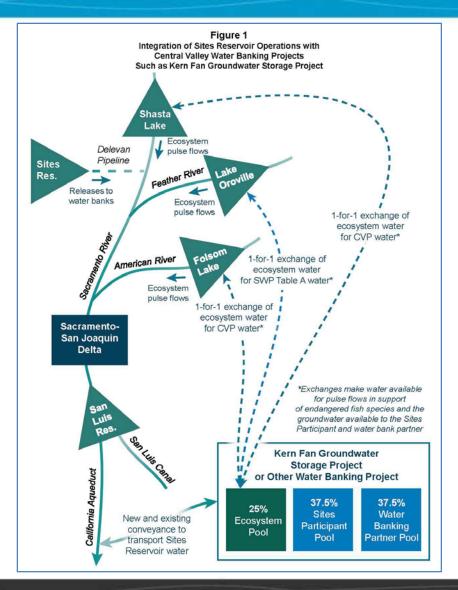
To be implemented in partnership with Rosedale-Rio Bravo Water Storage District using \$68 million in funds from Prop 1.

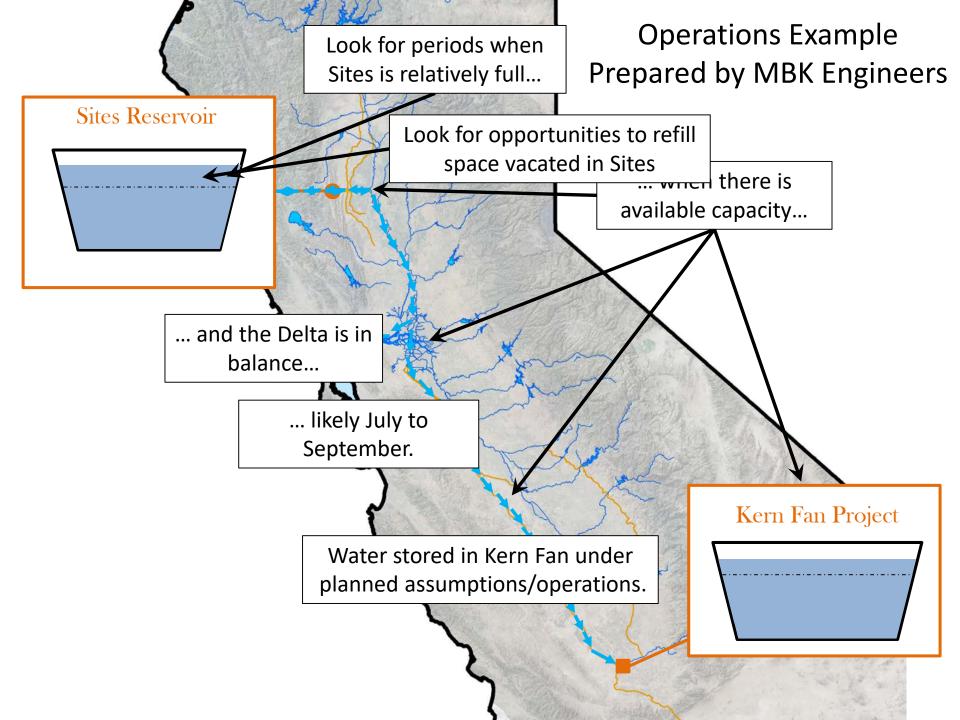


#### **Integration Concept**

- When storage in Sites Reservoir is full
  - Move water into the Kern Fan Project subject to available capacity in:
    - Delevan Pipeline
    - Delta export pumps
    - California Aqueduct
    - Kern Fan Project
- Generate environmental pulse flows from the State and Federal Projects through exchanges
- Use remaining banked water to benefit of Sites participants and the water banking partners
- Refill Site Reservoir
- Resume normal Sites operations

### Generating Pulse Flows by Exchange

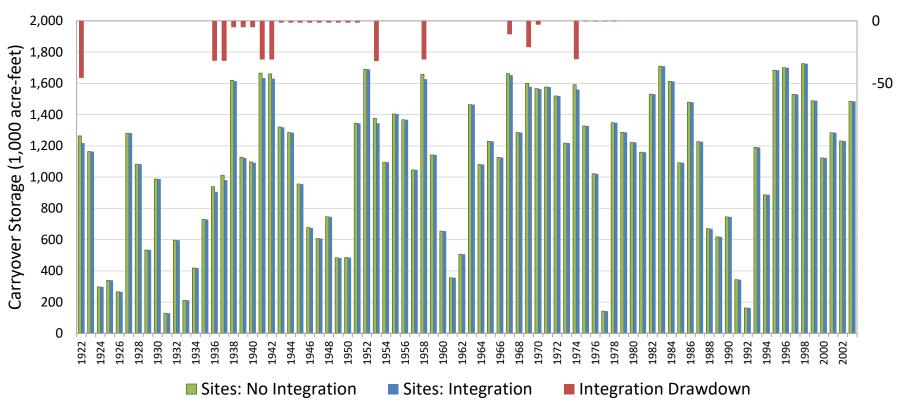




# Integration Drawdown (1,000 acre-feet)

#### Sites Carryover with Integration





Integration would have low risk to carryover in Sites Reservoir

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