# San Joaquin River Restoration Program

Water Management Group Technical Feedback Meeting

October 3, 2008



## Agenda

- Introductions / Purpose of Meeting
- Recovered Water Account (RWA) discussion
- Paragraph 16(b) Discussion
- Next Steps



#### **Recovered Water Account**

- Accounting tool to allow Reclamation to sell wet year water at \$10/af
- Must account for impacts to Friant Division long-term contractors from Interim and Restoration Flows
- Offset impacts by deliveries under 16a or 16b, or to projects funded by Title III or other sources to reduce delivery impacts



#### **Basic Elements of RWA Process**

- Quantify RWA Credits (impacts)
- Quantify offsets from 16a and 16b deliveries
- Quantify supplies from projects funded by Title III or other sources
- Allocation of Net RWA Credit to Individual Long-Term Contractors



## **How to Quantify Total Impacts?**

- Alternatives to estimate annual impact
  - Non-flood releases made according to Restoration Flow schedule
  - Daily, parallel accounting process with & without Restoration (shadow environment)
  - Annual, back-casting process using known hydrology and baseline model results
- Allocation of annual impact to Class 1 and Class 2
- Allocation of Class 2 impacts among Friant contractors



#### Paragraph 16b

Status of 16(b) Analysis
Opportunity Assessment of Friant-Kern Canal, Revision

"Implement a Recovered Water Account that will make wet year water at Friant Dam available to impacted long-term Friant water users at \$10/af"



#### Status of 16(b) Opportunity Assessment

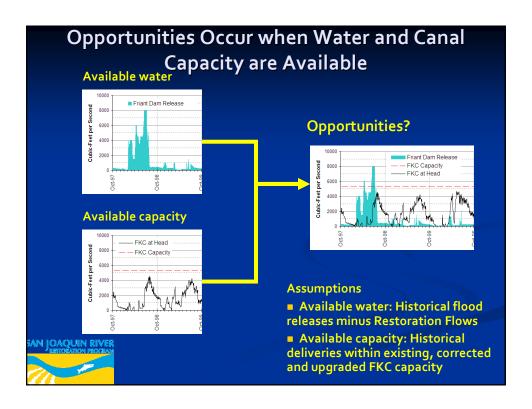
- Revised Friant-Kern Canal assessment presented at September meeting
- Received data for Madera Canal and conducting analysis



#### 16(b) Is Common to All PEIS Alternatives

- All program alternatives will include a common 16(b) component
  - Opportunities will be based on existing and additional delivery capability to identified banking and local conveyance projects
- PEIS evaluation provides coverage for reasonable upper limit of projects
  - Address system effects, not specific projects

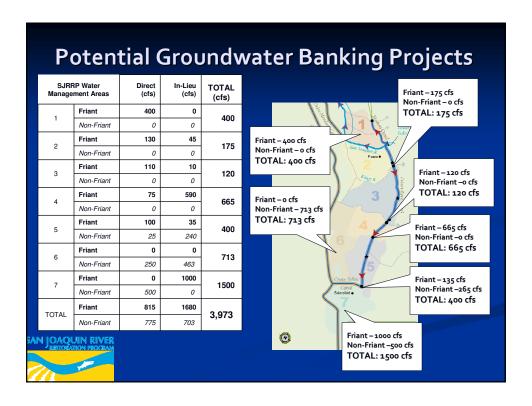




# Revised 16(b) Opportunity Assessment for Friant-Kern Canal

- Corrected accounting of deliveries into lower canal reaches
- Increased subdivision of WMA's and canal reaches to replicate canal neck downs with higher precision
- Adjusted canal reaches to better represent where deliveries are made for the districts within each WMA
- Results presented in monthly format with 4,000 cfs recharge capacity assumption

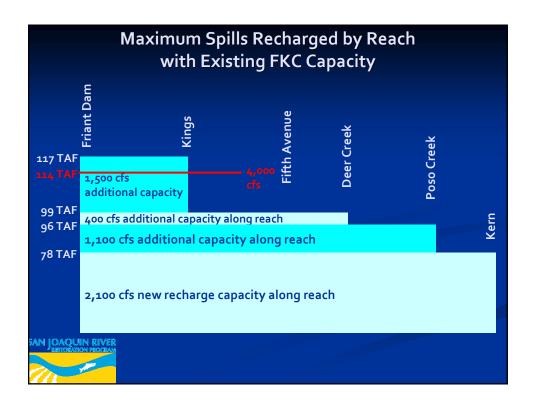




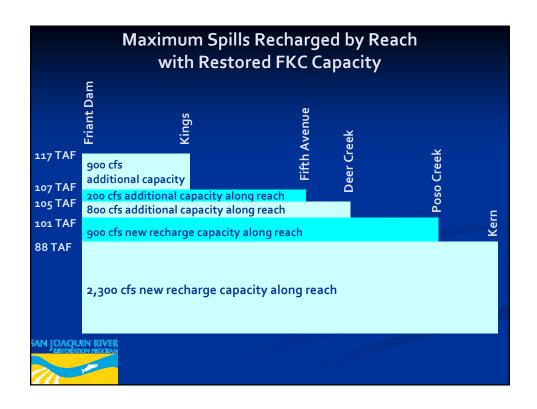
#### Analysis of 16(b) potential

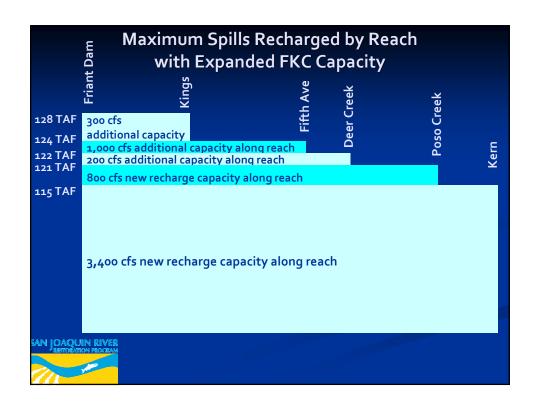
- Three canal capacities were evaluated
  - Existing FKC
  - Restored FKC (Design capacity)
  - Expanded FKC (Design capacity plus 1,000 cfs)
- Identified recharge (or delivery) capacity needed to take full advantage of the conveyance capacity of each reach of the canal (range of capacity)
- Estimated the potential average annual delivery of 16(b) water supplies





Revised 16(b) FKC Opportunity Assessment			
Water Management Area	Friant-Kern Canal Reach	Friant Contractors	Limiting Canal Reach Capacity (cfs)
2	Friant Dam to Kings River Check	GARFIELD WD	5300
		INTERNATIONAL WD	
		FRESNO ID	
3	Kings River Check to Fifth Avenue Check	ORANGE COVE ID	4105
		CITY OF ORANGE COVE	
		STONE CORRAL ID	
		IVANHOE ID	
		TULARE ID	
		EXETER ID	
		LEWIS CREEK WD	
		LINDSAY-STRATHMORE ID	
		CITY OF LINDSAY	
		LINDMORE ID <sup>3</sup>	
4	Fifth Avenue Check to Deer Creek Check	LOWER TULE RIVER ID	4000
		PORTERVILLE ID	
		TEA POT DOME WD	
		SAUCELITO ID4	
		TERRA BELLA ID4	
5N	Deer Creek Check to Poso Creek Check	DELANO-EARLIMART ID5	3500
		SOUTHERN SAN JOAQUIN MUD	
5S	Poso Creek Check to Shafter-Wasco Check	SHAFTER-WASCO ID	2170
7	Shafter-Wasco Check to Kern River Check	ARVIN-EDISON WSD	2170





## Next Steps for 16B

- Complete Madera Canal analysis
- Integrate canal and banking assumptions into system-wide analysis (CalSim)



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