



## Water Management Technical Feedback Meeting

July 18, 2014 Sacramento, CA



- Comments on Recent Meeting Notes
- Water Supply Briefing
- Restoration Flows Releases
- Restoration Flow Guidelines
- Recapture / Recirculation
- Investment Strategy
- Part III
- Lecture Series: Unreleased Restoration Flows Lessons Learned
- Public Comment / Next Meeting Dates and Locations



### **Comments on Meeting Notes**



### Water Supply Briefing



#### **Restoration Flow Releases**



- February 2014, Settling Parties suspended Restoration Flows in response to drought
- 12,694 af of URFs banked with FID
- 11,000 af to Class 1 contractors in 2014
  - 23 Agreements executed
  - 4,800 af delivered to date



#### **Restoration Flow Guidelines**



- Forecasting Restoration Flows, including tools for mitigating uncertainty.
- Gravelly Ford, minimum compliance point or flow target.
- Managing flood management releases to best meet riparian recruitment needs.



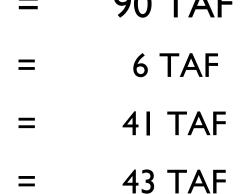
### **Recapture / Recirculation**

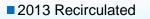


Contract Year	2010	2011	2012	2013
Recaptured (acre-feet)	52,000	35,740	103,000	90,000



- Total Recaptured = 90 TAF
  - Banked Recapture = 6 TAF
  - Recirculated in 2013
  - Recirculated in 2014





- Carried over and Recirculated in 2014
- 2013 Recaptured in Banking Programs

Data: April 17, 2014



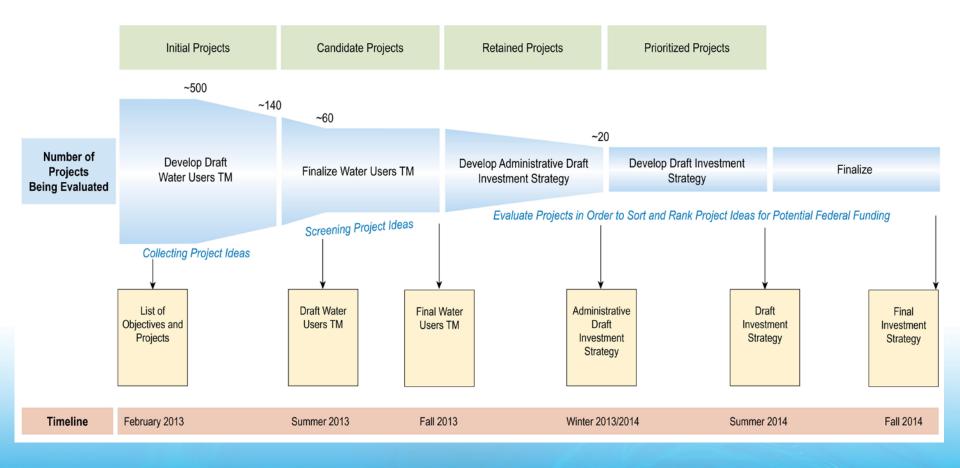
- Recirculation Chapter drafted with Friant
  Contractor input
- Critical Path: Recapture Chapter and associated operations agreements
- Plan progress on hold due to resource needs for drought and current FWA lawsuit
- Resume work on recapture after litigation resolved



### **Investment Strategy**

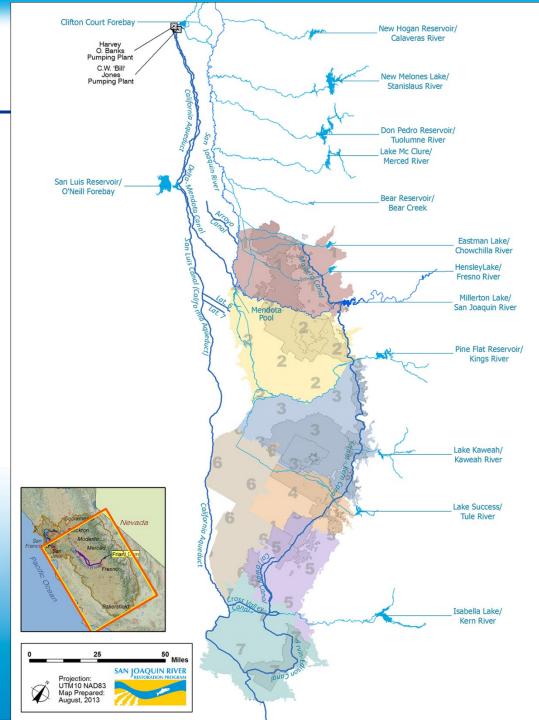
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#### Investment Strategy Approach





#### Investment Strategy Study Area





#### Water Users TM

October 2013

#### Investment Strategy

**Draft Water Users Technical Memorandum** 

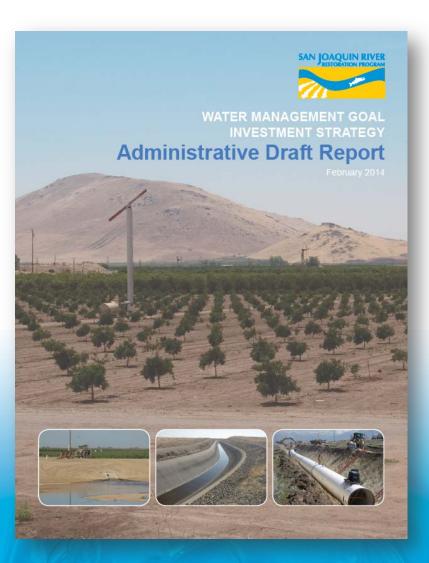


October 2013



### Administrative Draft Investment Strategy Report

April 2014





### Draft Investment Strategy Report

Fall 2014

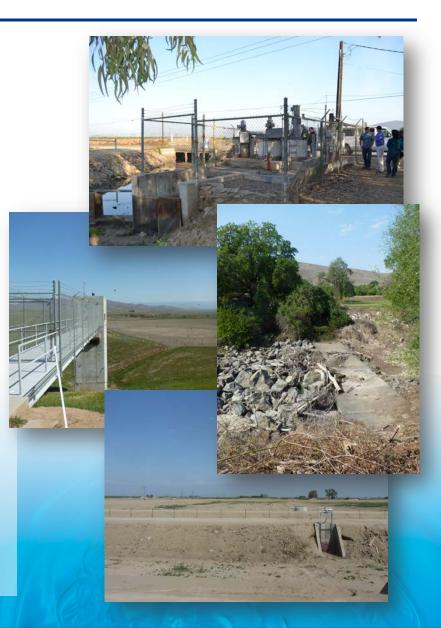


- Appraisal-level designs and cost estimates
- Project implementation schedule and budget requirements for major project phases
  - Planning / NEPA / CEQA
  - Design, Permitting
  - Acquisitions, Agreements
  - Construction
- Rank Priority Projects for Future Funding



#### Project Site Visits & Meetings

- Madera ID
- City of Fresno
- Fresno ID
- Orange Cove ID
- Ivanhoe ID
- Tulare ID
- Kaweah Delta WCD
- Porterville ID, Saucelito ID, Terra Bella ID
- Lower Tule River ID
- Delano-Earlimart ID
- Shafter Wasco ID
- Arvin-Edison WSD
- Patterson ID, Banta Carbona ID, West Stanislaus ID
- Friant Water Authority



#### Draft Investment Strategy Dates

 July 2014 – Draft appraisal studies for review by each project proponent

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- Sep 2014 Draft Investment Strategy Report for review by Friant Districts
- Dec 2014 Revised Draft Investment Strategy Report



### Part III



- Restore Design Maximum Flow Capacity and current design standards from MP 29.14 to MP 71.3
- Design-level 60%
  - Refining cost estimate earthwork assumptions and identifying non-essential pay items
  - starting modification designs for affected bridges and drains



- Originally combined with Friant-Kern Canal Restoration
- Identify, design and construct select demonstration projects
- Feasibility Study initiated, and first stakeholder meeting scheduled for July 28



- Red Bluff pumps and motors purchased and transported to FWA storage facility
- Feasibility study on hold



#### Pixley ID- Joint Groundwater Bank

- Site visit in April 2014, kickoff late July.
- Construction complete December 2017.

#### Porterville ID- In-Lieu Project

- Site visit/ kickoff July 2014.
- Construction complete December 2016.



#### Shafter-Wasco ID- Madera Aveune Intertie

• Engineering analysis in progress to update project description.

# Tulare ID- Cordeniz Basin Construction & Exchange Program

- Kickoff/ site visit July 2014
- Environmental Compliance January 2015, construction December 2015



### Lecture Series: Unreleased Restoration Flows Lessons Learned



- Paragraph 13(i) of Settlement
  - Restoration Flows commence no later than January 1, 2014
  - Restoration Flows that cannot be released from Friant Dam become URFs
  - Use URFs to best achieve the Restoration
    Goal, as determined by Reclamation
  - Established priority for banking, storing, exchanging, selling, and supplemental releases



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#### **Projected Availability**

Restoration Year	Reach 2B Channel Capacity (cfs)	Weighted Average Availability (TAF)
2015	810	63 – 117
2016	810	63 – 117
2017	810	63 – 117
2018	810	63 – 117
2019	810	63 – 117
2020	2,000	63 – 117
2021	2,000	15 – 31
2022	2,000	15 – 31
2023	3,000	0 - 10
2024	3,000	0 - 10
2025	3,000	0 - 10
2026	3,000	0 - 10
2027	Preliminary Braft, Subject to 4,000	Revision -

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- Recommendations
  - Prioritize Banking, Storing, and Exchanging
  - Execute agreements by March I of each Contract Year
  - Prioritize Friant Contractors
  - Practical and mutually acceptable
  - Cover projected volumes + 25%



- February 2014, Settling Parties suspended Restoration Flows in response to drought
- 12,694 af of URFs banked with FID
- 70 days from concept to operational temporary pump facility to exchange the URFs
- II,000 af to Class I contractors in 2014
  - 24 of 31 Agreements executed



- Not possible to limit Agreements to just "a few" Friant Contractors
- Annual agreements are extremely time consuming to develop and track
- Exchange option not popular
- URFs pricing was a contentious issue
- Revenues generated not available without appropriation until 2020



- URFs distributed to Friant Contractors on pro-rata basis
- Water rate pre-determined
  - Class I Contract rate base
  - Apply year type multiplier to base rate
- Revenues distributed directly to SJRRP without further appropriation



	Contract Rate Multiplier	Per AF price
Wet	X 2	\$ 66.34
Normal-Wet	X 3	\$ 99.51
Normal-Dry	X 5	\$165.85
Dry	X 8	\$265.36
Critical High	X 12	\$398.04
Critical Low	X 16	\$530.72

Based on Class 1 Contract Rate = \$33.17



	Max Projected URFs, TAF	Revenue	Min Projected URFs, TAF	Revenue
Wet	99	\$6,567,660	86	\$5,705,240
Normal-Wet	115	\$11,443,650	40	\$3,980,400
Normal-Dry	46	\$7,629,100	-	-
Dry	13	\$3,449,680	-	-
Critical High	12	\$4,776,480	-	-
Critical Low	-	-	-	-

Based on Restoration Flow capacity constraint = 1,100 cfs



- Purchase water
  - to supplement future Restoration Flows
  - for unexpected seepage losses
  - for buffer flows
- Accelerate completion of Phase I projects



### Public Comment / Next Meetings



Day	Date	Location
Friday	September 19, 2014	Visalia
Friday	November 21, 2014	Visalia
TBD	January 2015	Reno