



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.



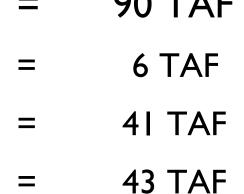
Recapture / Recirculation

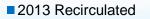


Contract Year	2010	2011	2012	2013
Recaptured (acre-feet)	52,000	35,740	103,000	90,000



- 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



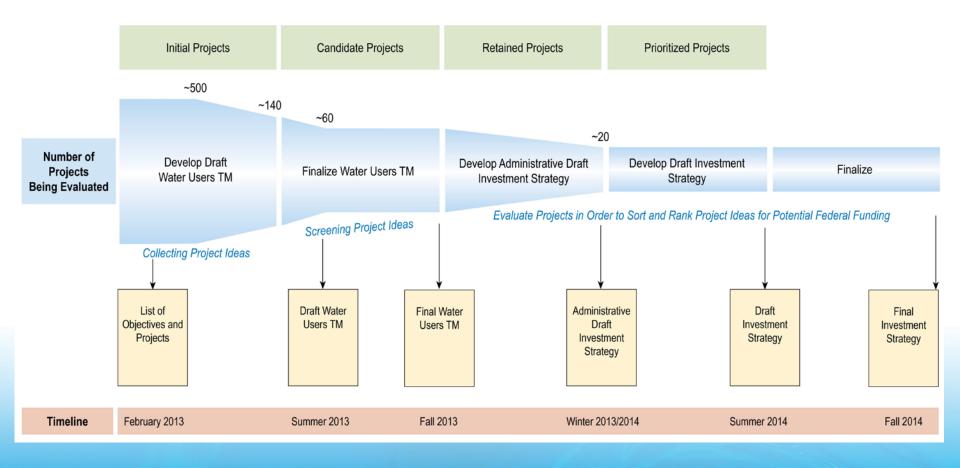
- Recirculation Chapter drafted with Friant
 Contractor input
- Critical Path: Recapture Chapter and associated operations agreements
- Plan progress on hold due to resource needs for drought and current FWA lawsuit
- Resume work on recapture after litigation resolved



Investment Strategy

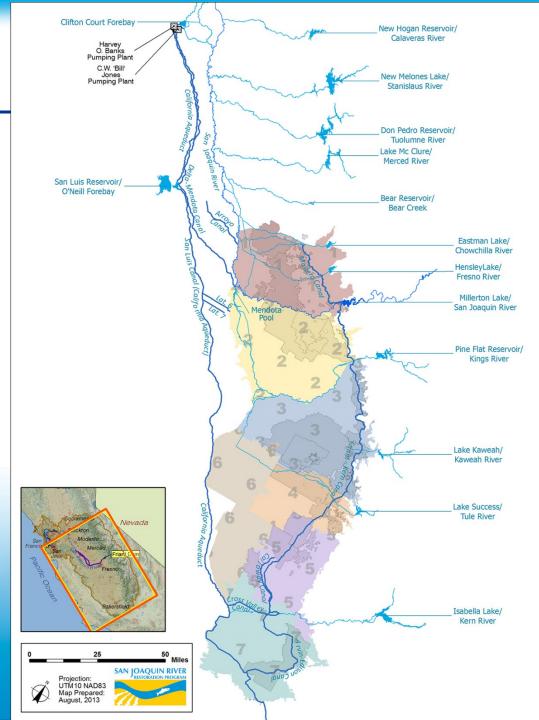
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Investment Strategy Approach





Investment Strategy Study Area





Water Users TM

October 2013

Investment Strategy

Draft Water Users Technical Memorandum

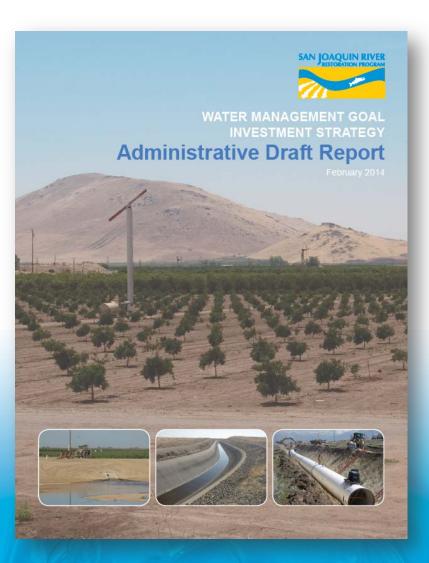


October 2013



Administrative Draft Investment Strategy Report

April 2014





Draft Investment Strategy Report

Fall 2014

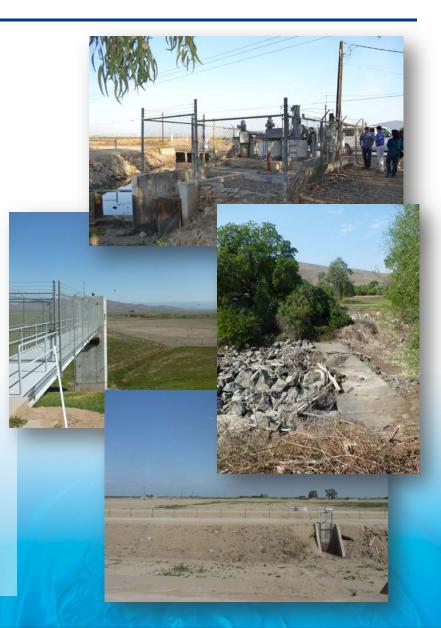


- Appraisal-level designs and cost estimates
- Project implementation schedule and budget requirements for major project phases
 - Planning / NEPA / CEQA
 - Design, Permitting
 - Acquisitions, Agreements
 - Construction
- Rank Priority Projects for Future Funding



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 -

30



- 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