

# San Joaquin River Restoration Program



## Recapture and Recirculation Plan Kick-off

Merced, CA

October 3, 2018



# Agenda

---

- Introductions
- Plan Background
- Plan Relationship to EIS/R
- Revision Process
- Issues Brainstorming
- Issues Prioritization and Discussion
- Next Steps



---

# INTRODUCTIONS



# Purpose

---

- We believe a restored San Joaquin River can co-exist with San Joaquin Valley farming
- Through implementing both goals of the Settlement
- In particular:
  - updating and completing the plan for recirculation, recapture, reuse, exchange or transfer of Restoration Flows
  - in consultation with the parties
  - Consistent with the Settlement and Settlement Act



# Settlement Goals

---

- **Restoration Goal**

To restore and maintain fish populations in “good condition” in the main stem of the San Joaquin River below Friant Dam to the confluence of the Merced River, including naturally reproducing and self-sustaining populations of salmon and other fish.

- **Water Management Goal**

To reduce or avoid adverse water supply impacts to all of the Friant Division long-term contractors that may result from the Interim Flows and Restoration Flows provided for in the Settlement.



# Starts with Flows

---

- Temporary actions to release and recapture Interim Flows
  - Interim Flows EAs: 2009, 2010, 2011
  - Temporary Water Rights Orders: 2009 - 2013
- Permanent change for Interim and Restoration Flows
  - PEIS/R and ROD: Sept 2012
  - Permanent Water Rights Order: Oct 2013

# Restoration Flows

---

## What they are:

- Releases from Friant Dam
- For instream flow dedication
- In accordance with Reclamation's SJR water rights and Settlement Exhibit B

## What they aren't:

- Holding Contract releases
- Flood Releases
- King's River or other tributary flow into the SJR downstream of Friant Dam
- SJR Exchange Contract deliveries

# Water Management Goal Tools

- Settlement Paragraph 16
  - Recirculate, recapture, reuse, exchange or transfer Restoration Flows
  - Recovered Water Account program
- Settlement Act (Part III)
  - Friant-Kern and Madera Canals Capacity Restoration
  - Friant-Kern Canal Reverse Flow Pump-Back Facilities
  - Financial assistance for local groundwater projects







---

# PLAN BACKGROUND



# Recapture & Recirculation

---

- Settlement Paragraph 16(a)
- Directs the Secretary to develop and implement

*“A plan for recirculation, recapture, reuse, exchange, or transfer of Interim Flows and Restoration Flows for the purpose of reducing or avoiding impacts to water deliveries to all of the Friant Division long-term contractors caused by the Interim Flows and Restoration Flows.”*

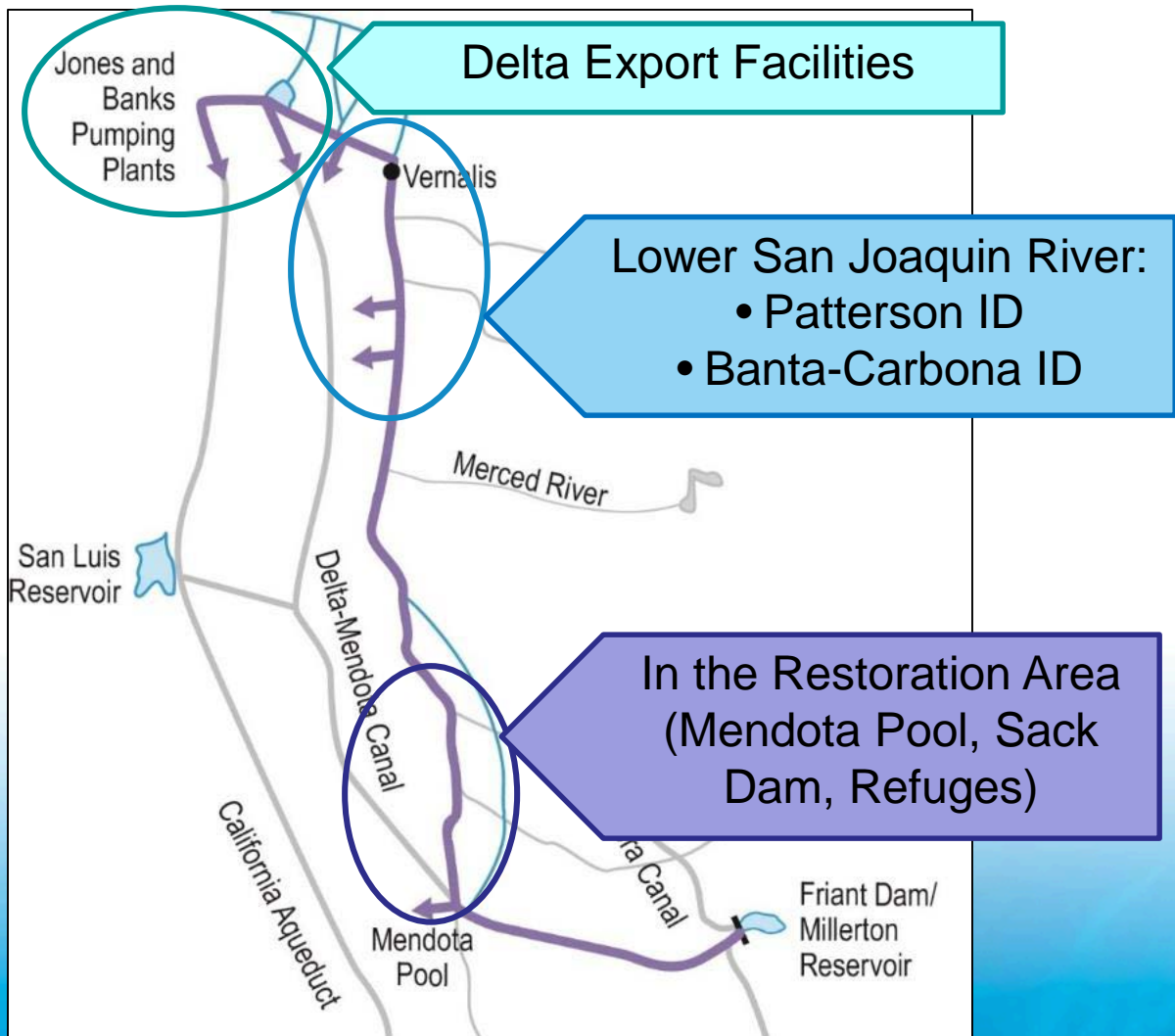


# Plan Constraints

---

- Recapture permitted only for Restoration Flows originating at Friant Dam
- No adverse impact on:
  - The Restoration Goal, water quality or fisheries.
  - The ability to meet contractual obligations to CVP long-term contractors, other than Friant Division contractors.
- Subject to:
  - Use of CVP facilities to make Project water and transfer water available to south-of-Delta CVP contractors;
  - COA, including any agreement to resolve conflicts; and
  - Applicable laws, regulations and standards

# Recapture Water



The portion of scheduled Restoration Flows released from Friant Dam under Reclamation's SJR water rights and rediverted into south-of-Delta facilities

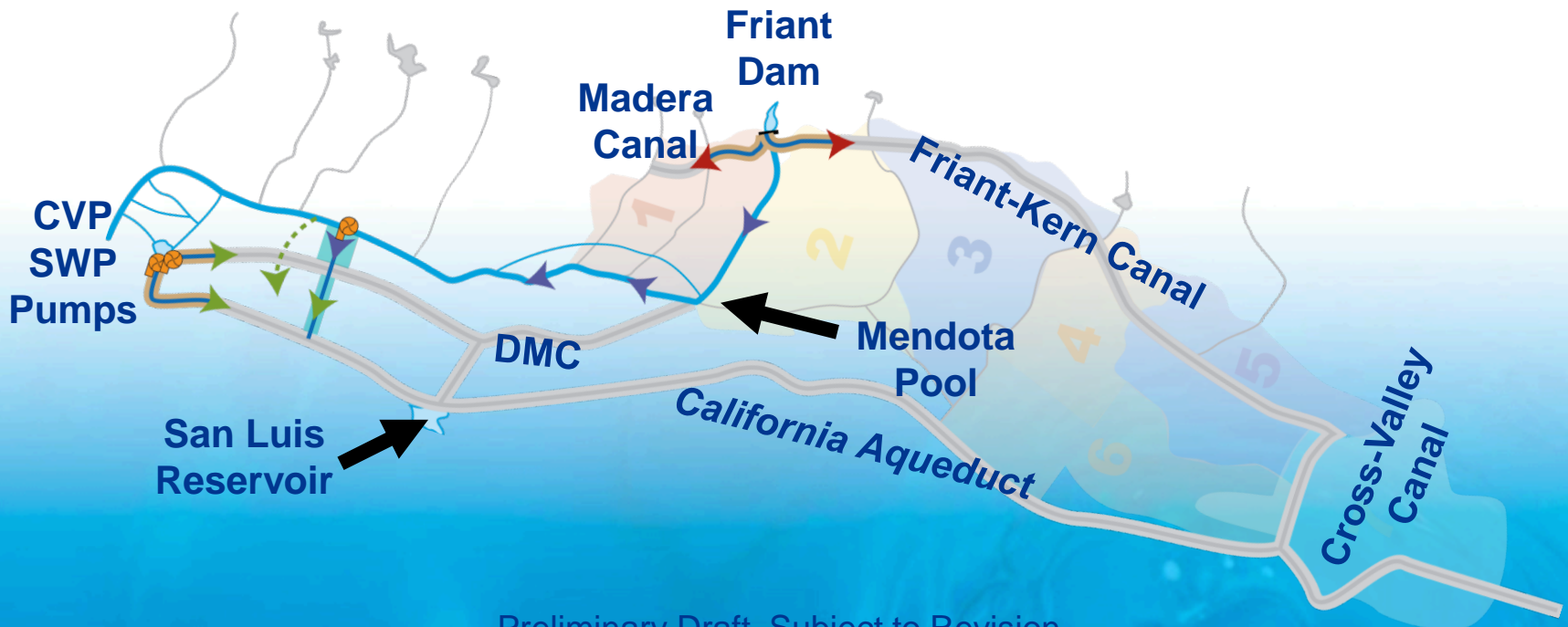
# Recapture Compliance & Permits

---

- PEIS/R and 2013 Order cover long-term recapture at:
  - Restoration Area locations
  - Delta export facilities
- EA/FONSIs and Temporary water rights orders cover temporary recapture at:
  - Patterson ID
  - Banta-Carbona ID

# Recirculation Water

- Made available to Friant Contractors to reduce impacts
- Allocated on a pro-rata basis according the current year's water supply declaration
- Recirculation =  
Direct delivery (AEWSD/SWID); Reuse; Exchange; or Transfer





# Recirculation NEPA Compliance

---

- Recirculation EA/FONSI for Interim Flows
  - 2010, 2011 and 2012
- 5-year Recirculation EA/FONSI in April 2013
  - Transfers and exchanges through existing facilities
  - Water contract year 2013 through 2017
  - May 2017 FONSI added Pleasant Valley WD
  - February 2018 FONSI continues short term recirculation actions
- 10-year Transfer and Exchange to the Red Top Area EA/FONSI in October 2016
- FKC Pumpback EA in development

# Draft Plan History

---

- Draft Plan released February 2011
  - developed in consultation with the FWA, NRDC, SLDMWA, SJRECWA, and DWR
  - Stalled primarily over treatment of reduced Friant flood management releases
- Technical meetings with Friant Contractors resumed in mid-2012
  - Settlement's confidential Dispute Resolution Process
  - Recirculation chapter largely completed fall 2013
  - Plan put on hold due to focus on drought issues in 2014 and 2015





# In the mean time...

---

- Water right for Restoration Flows
- RFG completed and Restoration Flows start
- Extreme drought 2014 and 2015
  - Exchange Contractor call on Friant
  - SGMA 2014
- Initiated long-term R&R EIS/R process
- Awarded and completed 3 of 4 Part III projects
- Restoration Flows connected from Friant Dam to Delta in fall 2016 – Recapture in lower San Joaquin River
- Initiated FKC Pumpback project with Drought Funding (under Secure Water Act)



# WHAT'S THE DIFFERENCE BETWEEN THE PLAN AND THE EIS/R?



# Plan versus EIS/R

---

## Plan

- Tool box of recapture and recirculation measures
- Procedures for:
  - Measuring
  - Forecasting
  - Scheduling
  - Allocating
  - Accounting

## EIS/R

- Project level environmental compliance for:
  - Long-term recirculation
  - Recapture in lower San Joaquin River
  - Expansion of recapture or recirculation capability
- Bookend analysis to support:
  - State Board petition for lower San Joaquin River diversion
  - Agreements to convey, transfer, or exchange recaptured Restoration Flows

# EIS/R Alternatives

- Alternative 1 - No Action/No Project
- Alternative 2 – Continue Existing Temporary Recirculation Actions
- Alternative 3 – Maximize Use of Existing Facilities
- Alternative 4 – Expand Existing Facilities
- Alternative 5 – Construct New Facilities

**San Joaquin River Restoration  
Program Long-term Recapture and  
Recirculation of Restoration Flows  
Project**

Second Administrative Draft  
Environmental Impact Statement/ Report



March 2018

# San Joaquin River Restoration Program

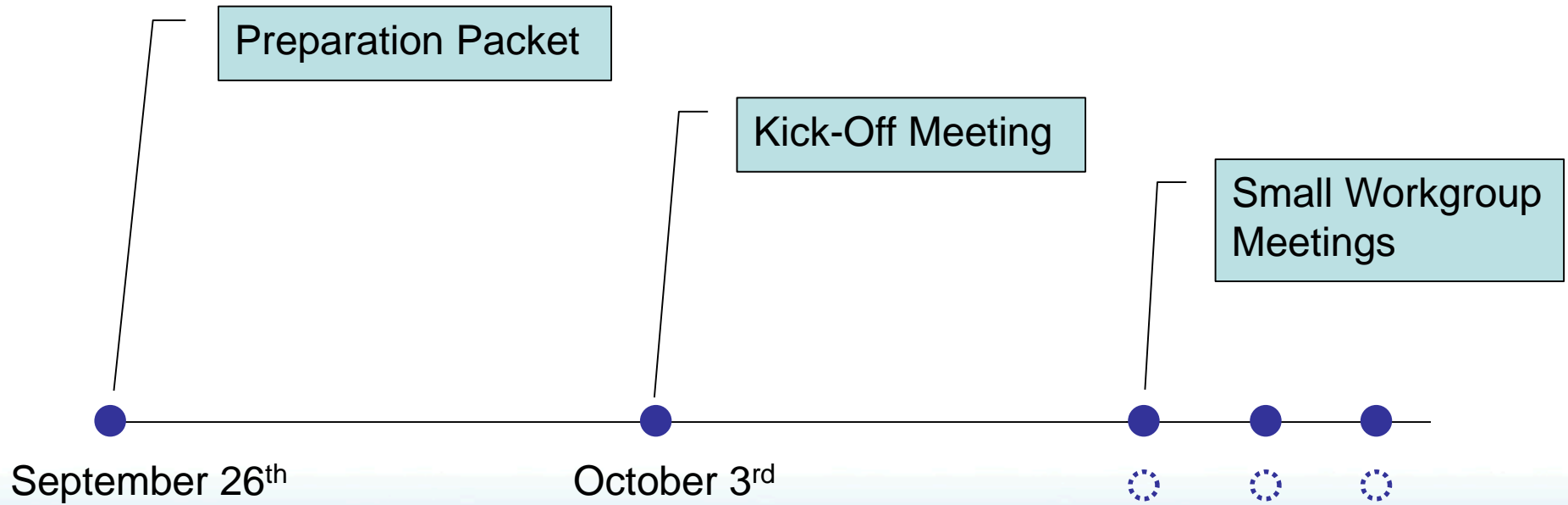


## Recapture and Recirculation Plan

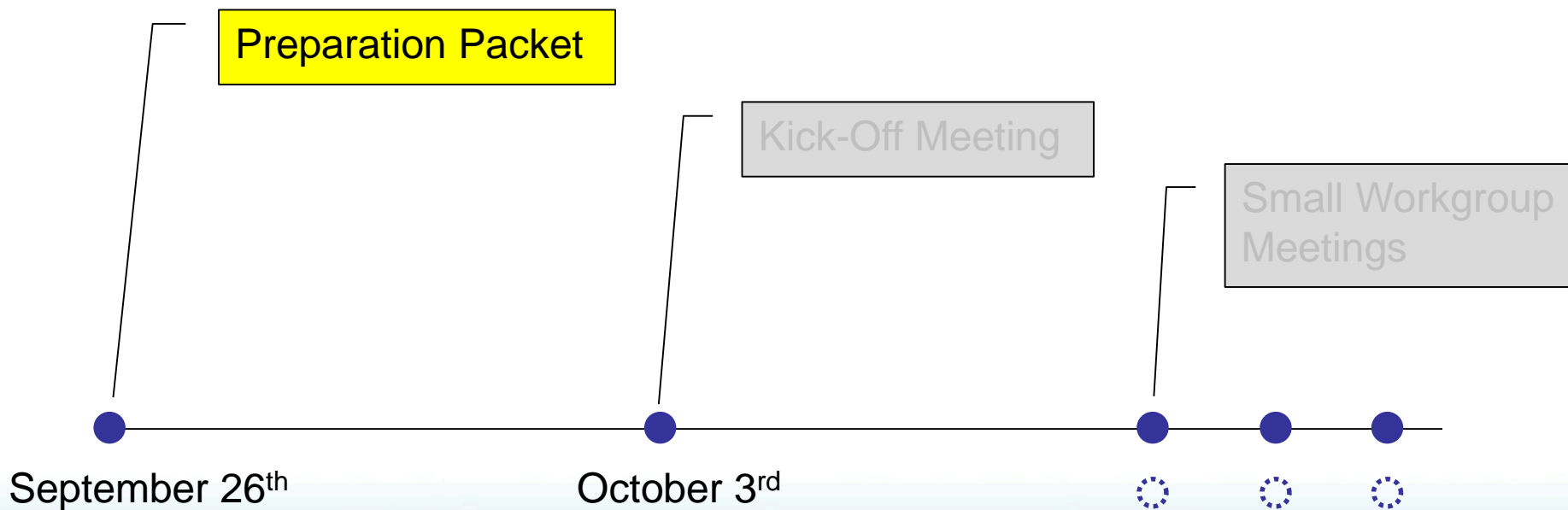
### Revision Process Overview

**October 3<sup>rd</sup>, 2018**

# Revision Process Overview



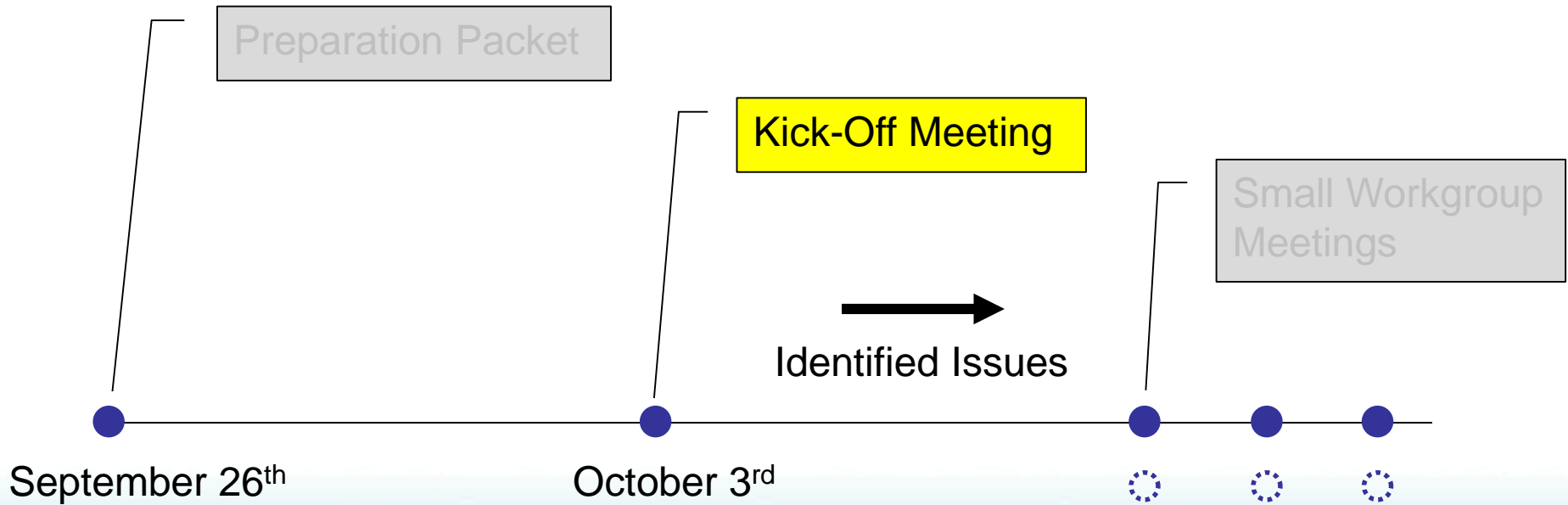
# Revision Process Overview



## Objectives:

- Review the working draft Plan
- Identify issues that they want to elevate during the Kick-Off Meeting

# Revision Process Overview

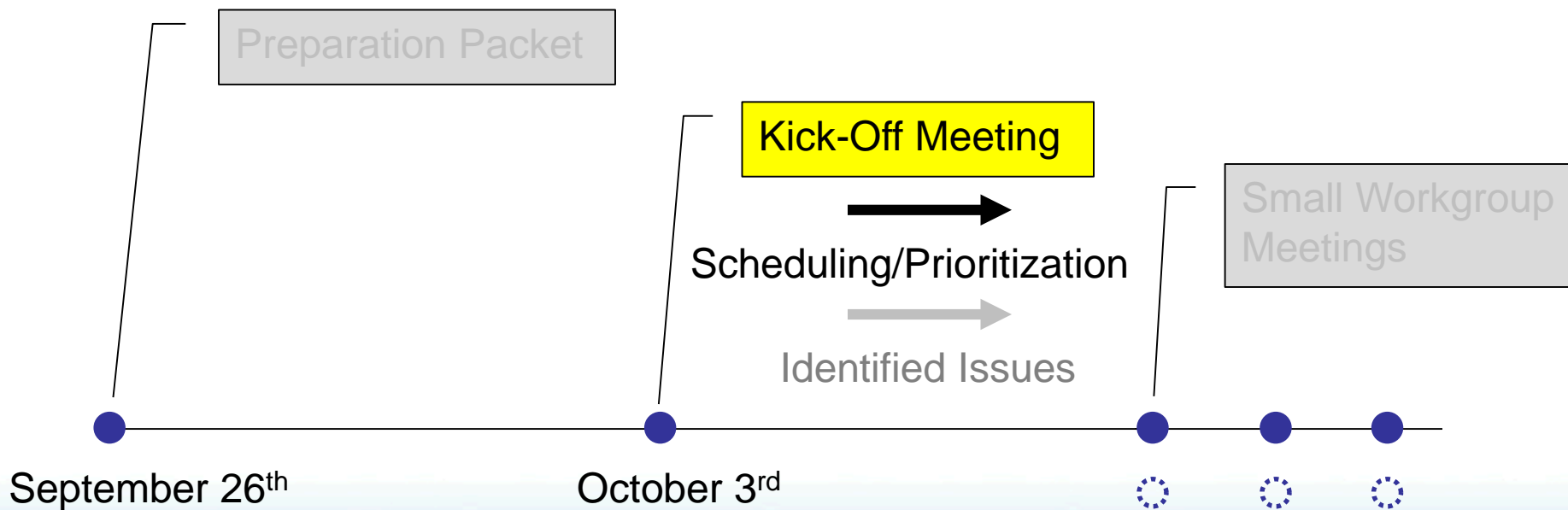


## Objectives:

- To provide an overview of the Working Draft R&R Plan
- Present its *known* gaps and issues
- Get participant input on *potential* issues



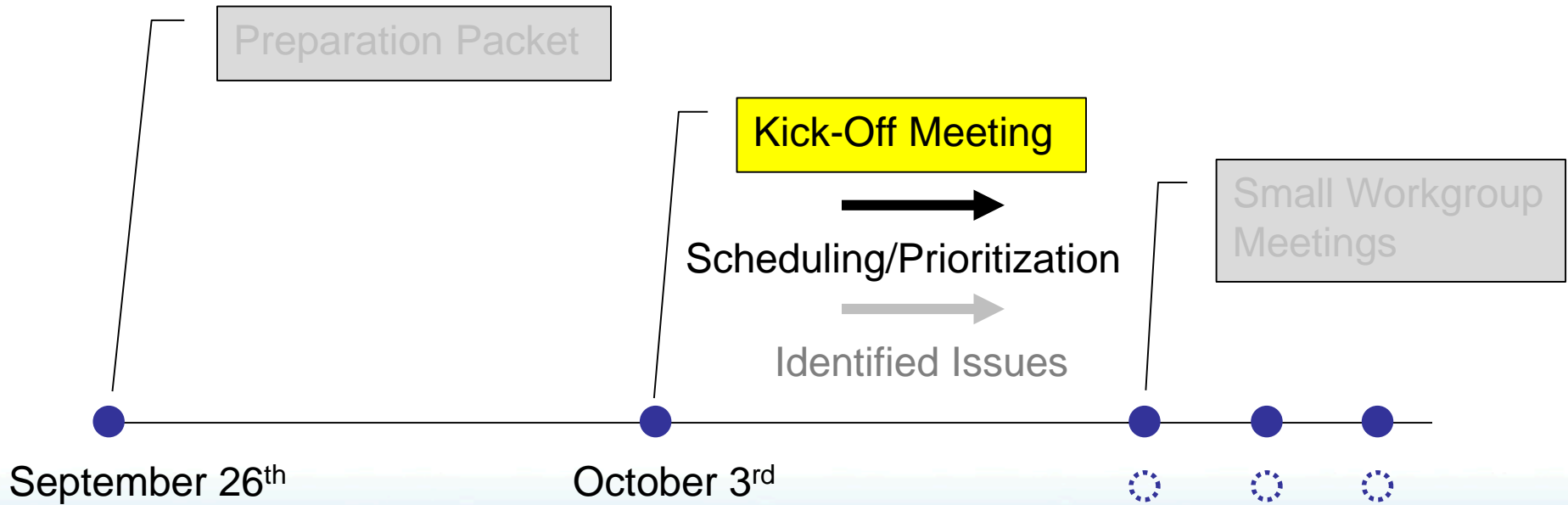
# Revision Process Overview



## Objectives:

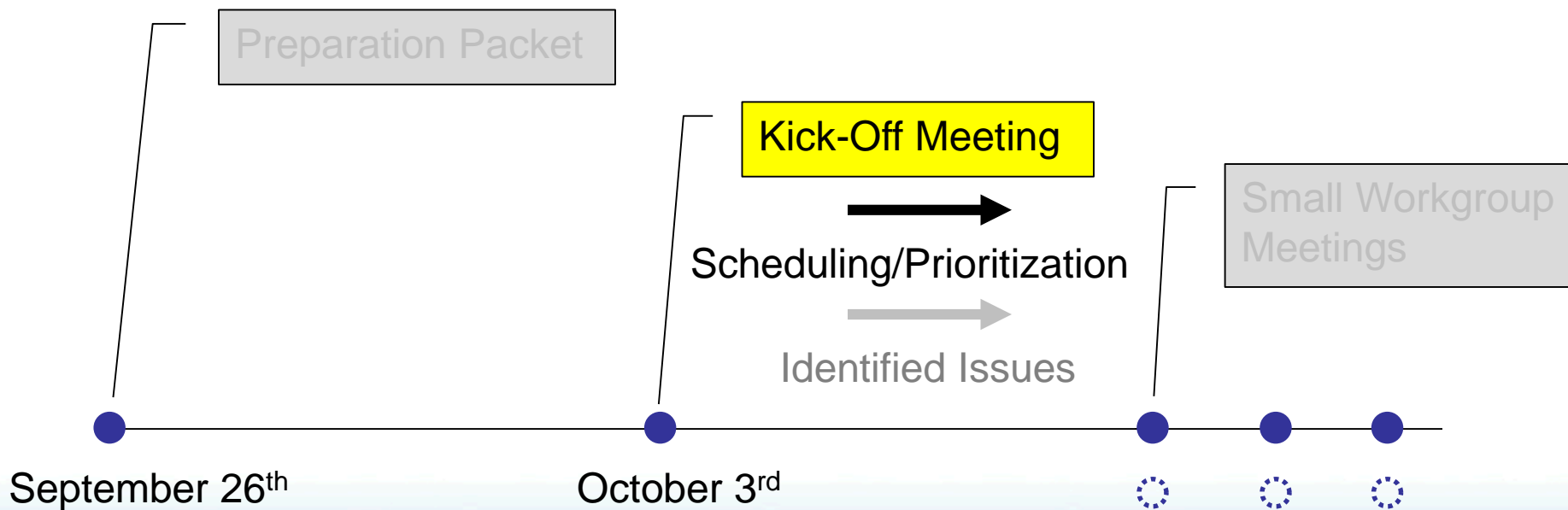
- After participants are familiarized with the issues for each topic, a prioritization survey will be conducted.

# Revision Process Overview



**What to expect after the Kick-Off Meeting:**

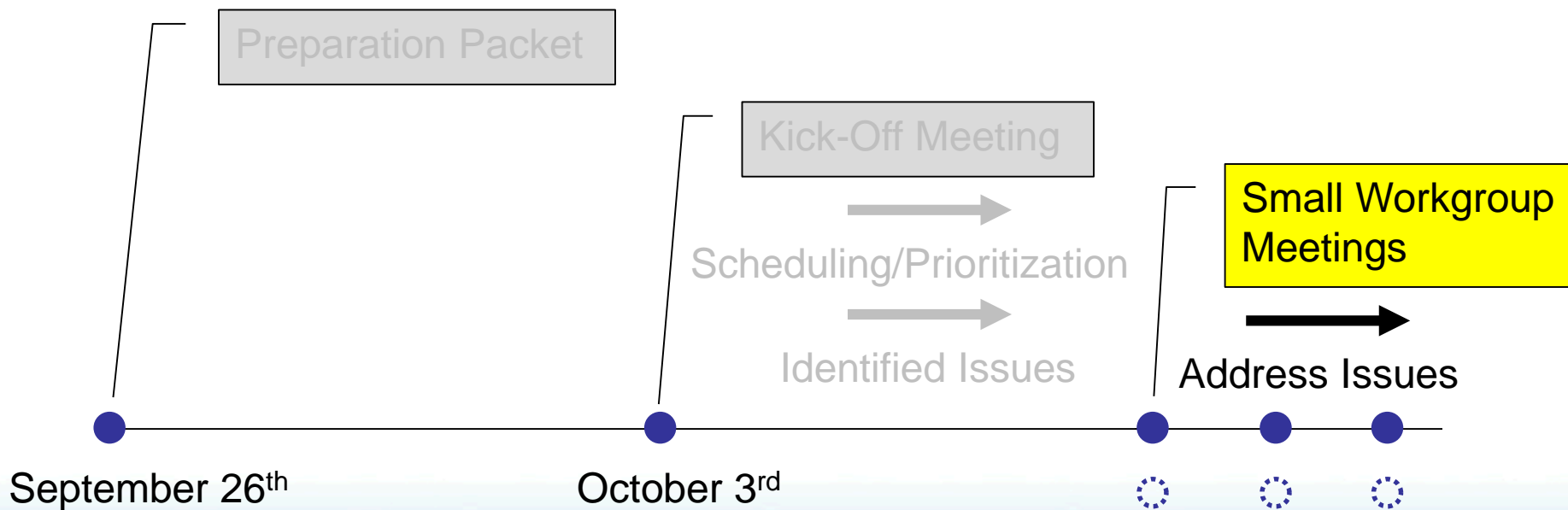
# Revision Process Overview



## What to expect after the Kick-Off Meeting:

- Debriefing: list of all the gathered input
- Scheduling for SWG and next steps

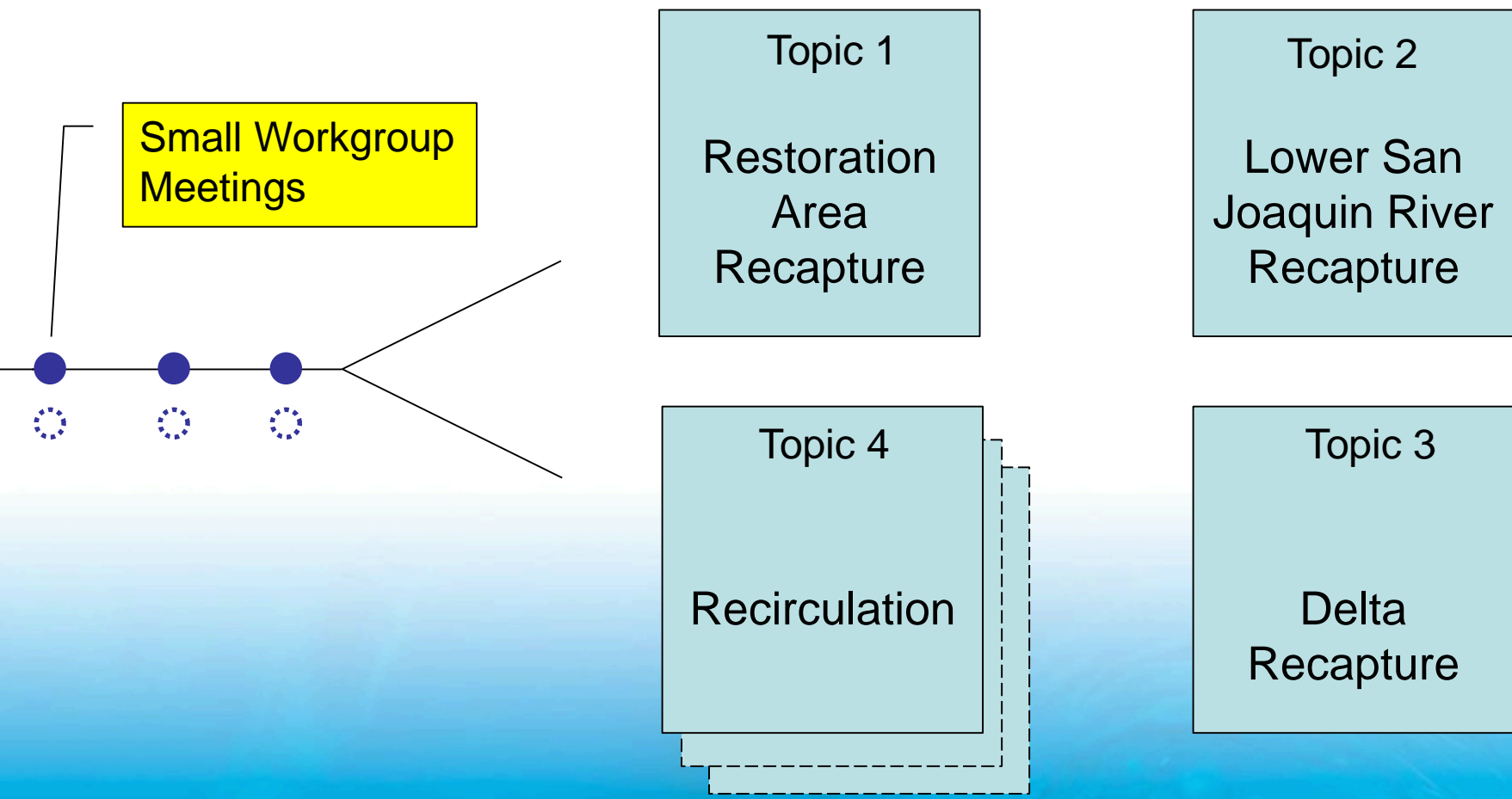
# Revision Process Overview



## Objectives:

- Address identified revision topics in small workgroups
- Make revisions to the Draft RR Plan

# Proposed Small Workgroups: Composition



# San Joaquin River Restoration Program

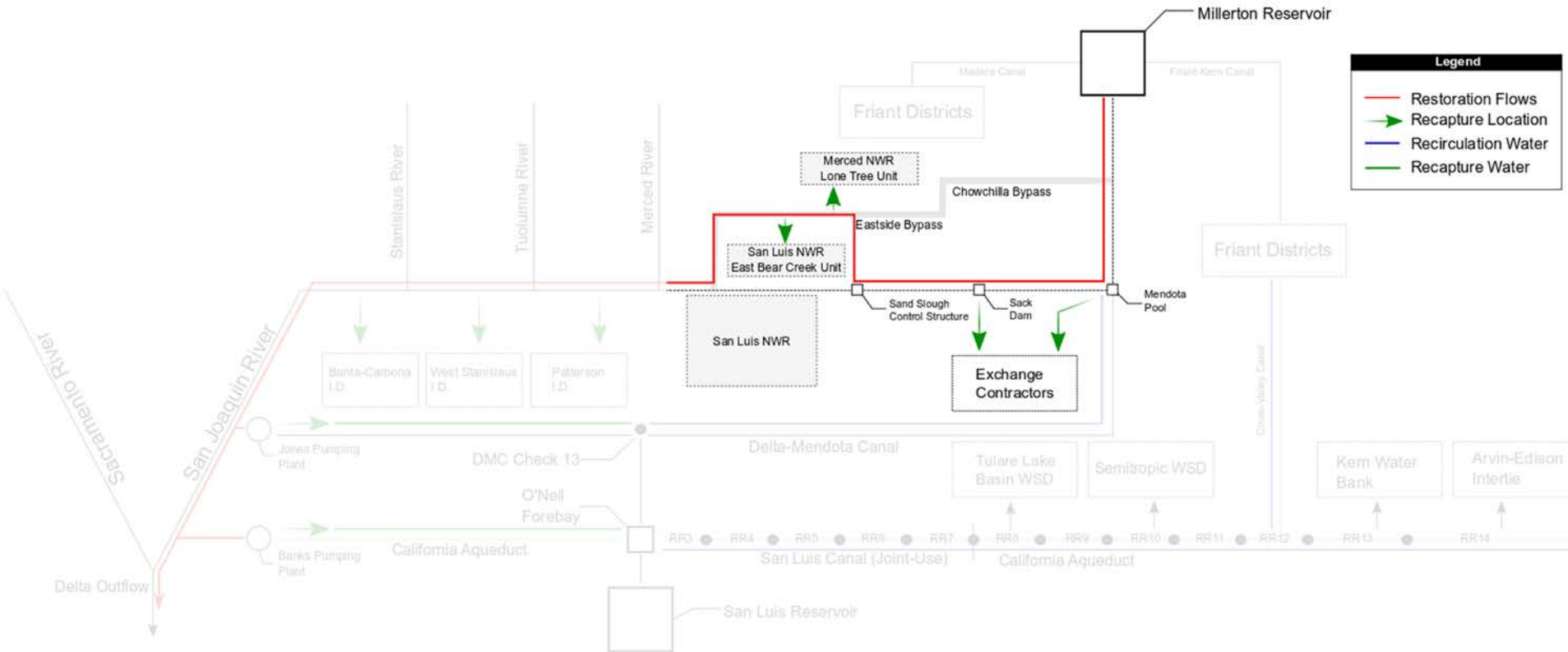


## Recapture and Recirculation Plan

### Topic Overview

**October 3<sup>rd</sup>, 2018**

# Restoration Area Recapture



River channel and the Eastside and Mariposa bypass channels from Friant Dam to the confluence of the Merced and San Joaquin rivers

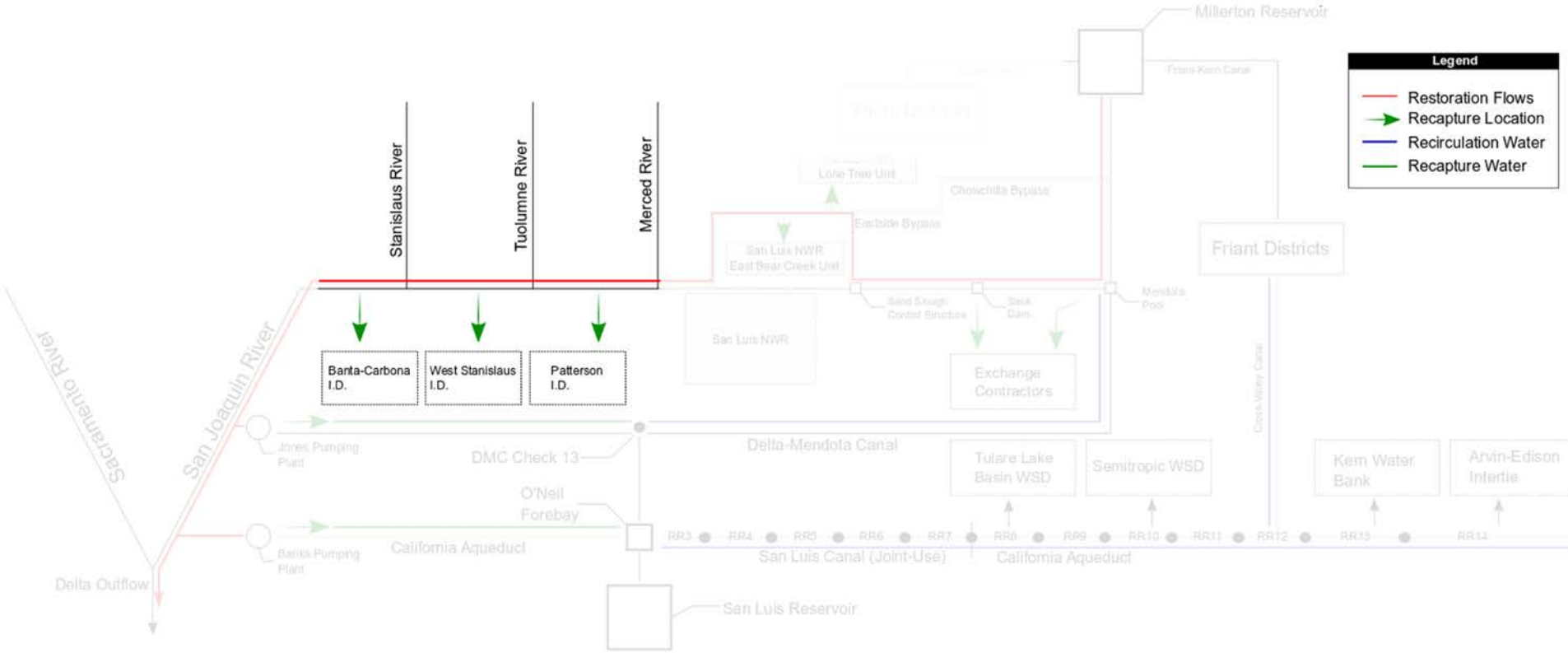
# Restoration Area Recapture

---

- Section 2.2.1
  - Secretary will use the Restoration Area when it is necessary to divert Restoration Flows
  - Mendota Pool and Sack Dam
  - East Bear Creek Unit and Lone Tree Unit
  - Describes coordination, accounting, and monitoring procedures
- Potential Issues to Address
  - Flow monitoring
  - Accounting
  - Losses
  - Recapture locations
  - Effects to SOD CVP Contractors



# Lower SJR Recapture



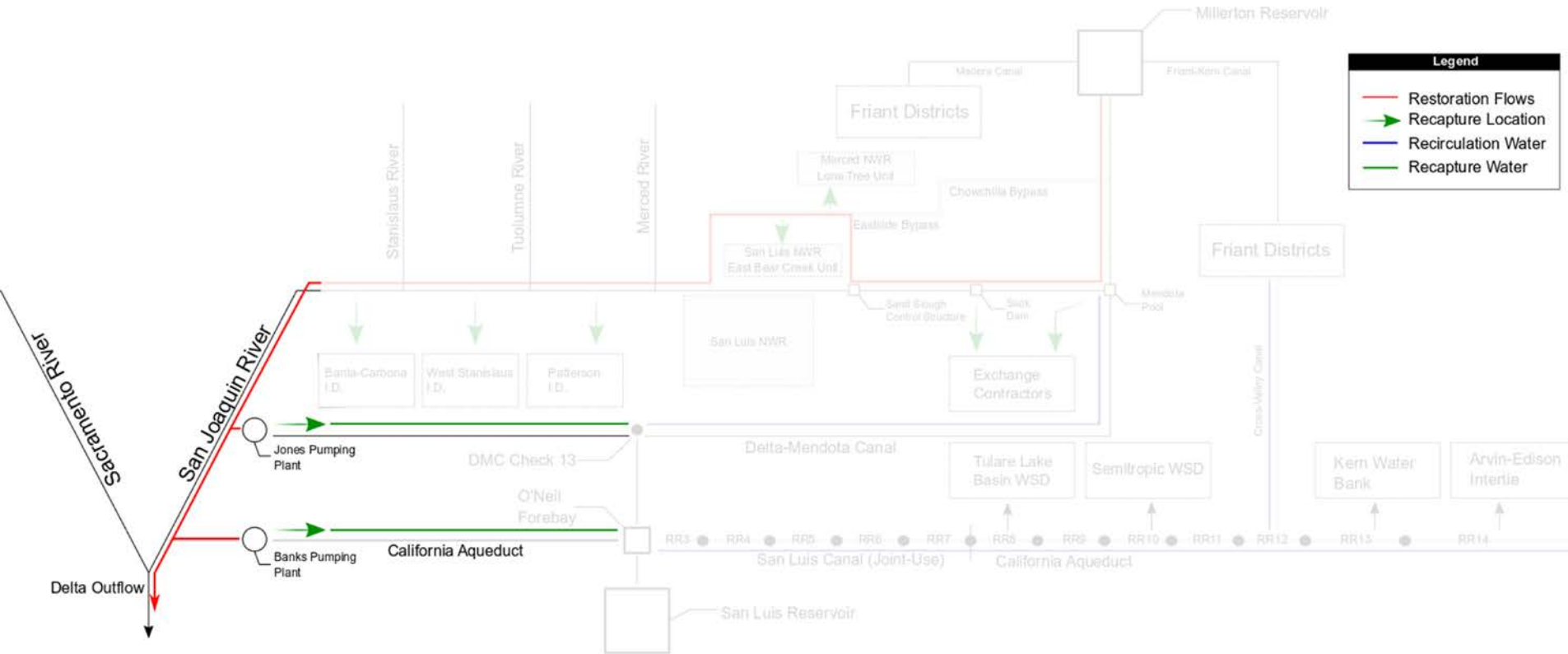
Downstream of the confluence with the Merced River to the Sacramento-San Joaquin Delta

# Lower SJR Recapture

---

- Section 2.2.2
  - Existing connections between the Lower San Joaquin River and the DMC
    - Patterson ID
    - West Stanislaus ID
    - Banta-Carbona ID
  - Describes dependency of entering in agreements with non-Federal facilities, and compliance
- Potential Issues to Address
  - Flow monitoring
  - Accounting
  - Losses
  - Water Rights Permits
  - Consistency with Paragraph 16(a)(1)

# Delta Recapture



Existing CVP and SWP facilities in the Delta (i.e. Jones and Banks Pumping Plants)

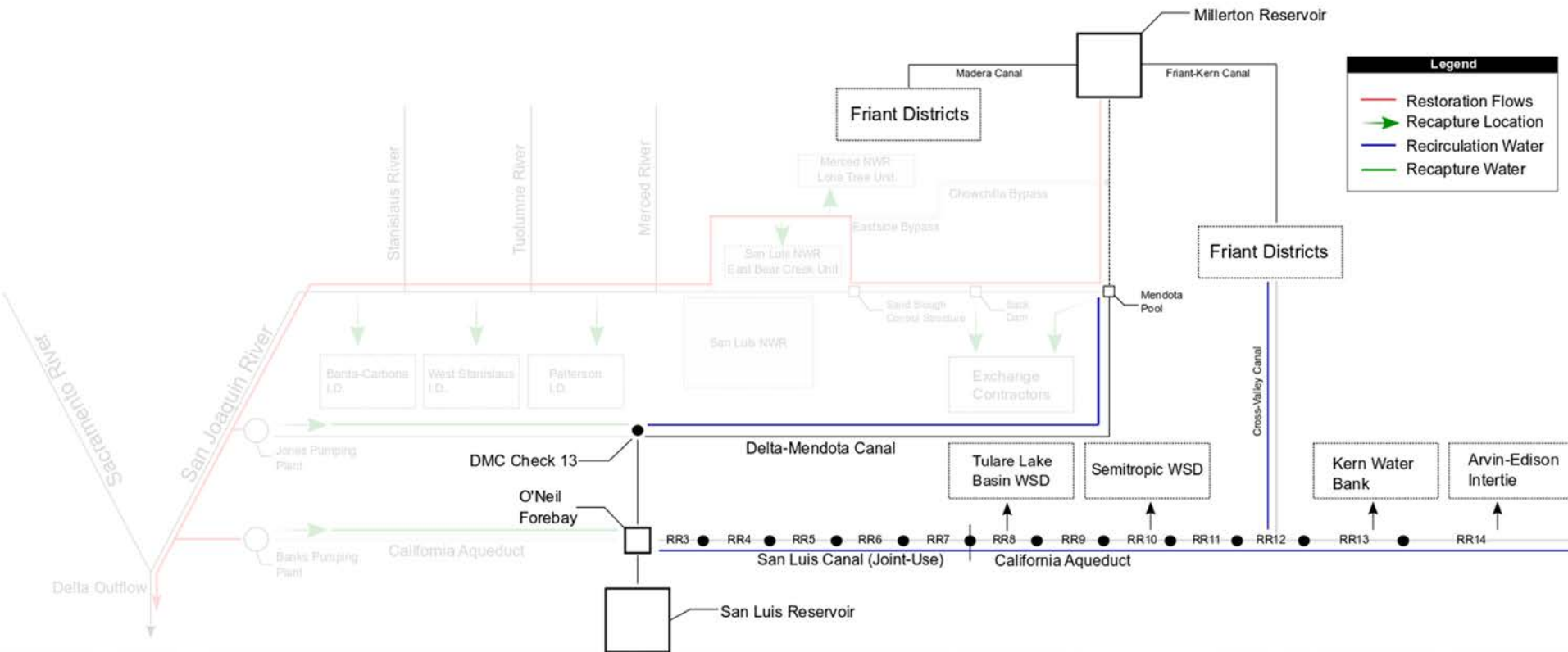


# Delta Recapture

---

- Section 2.2.3
  - Secretary shall determine the amount of Restoration Flows reaching the CVP and SWP facilities in coordination with the State
  - Describes coordination, accounting, and monitoring procedures
- Potential Issues to Address
  - Flow monitoring
  - Accounting
  - Coordinated Operations Agreement
  - Delta Operational Constraints

# Recirculation



Actions that recirculation, exchange, transfer, reuse, or otherwise deliver Recapture Flows for a Friant Division long-term contractors



# Recirculation

---

- Section 3
  - Describes forecasting procedure (3.2), measures for returning Recirculation Water (3.3), allocation procedures (3.4), advanced delivery (3.5), agreements (3.6), priority in San Luis (3.7), and RWA replacement (3.8)
- Potential Issues to Address
  - Allocation
  - Recirculation pathways
  - Advanced deliveries
  - RWA offsets
  - Water quality
  - Conveyance and/or exchange agreements

# Topic Overview

Table 1

Restoration  
Area Recapture

**Chad**  
Maritza

Table 2

Lower San  
Joaquin River  
Recapture

**Kellye**  
Evan

Rotation 1: 25 minutes

Rotation 2: 20 minutes

Rotation 3: 15 minutes

Rotation 4: 10 minutes

Table 4

Recirculation

**Adam**  
Ian

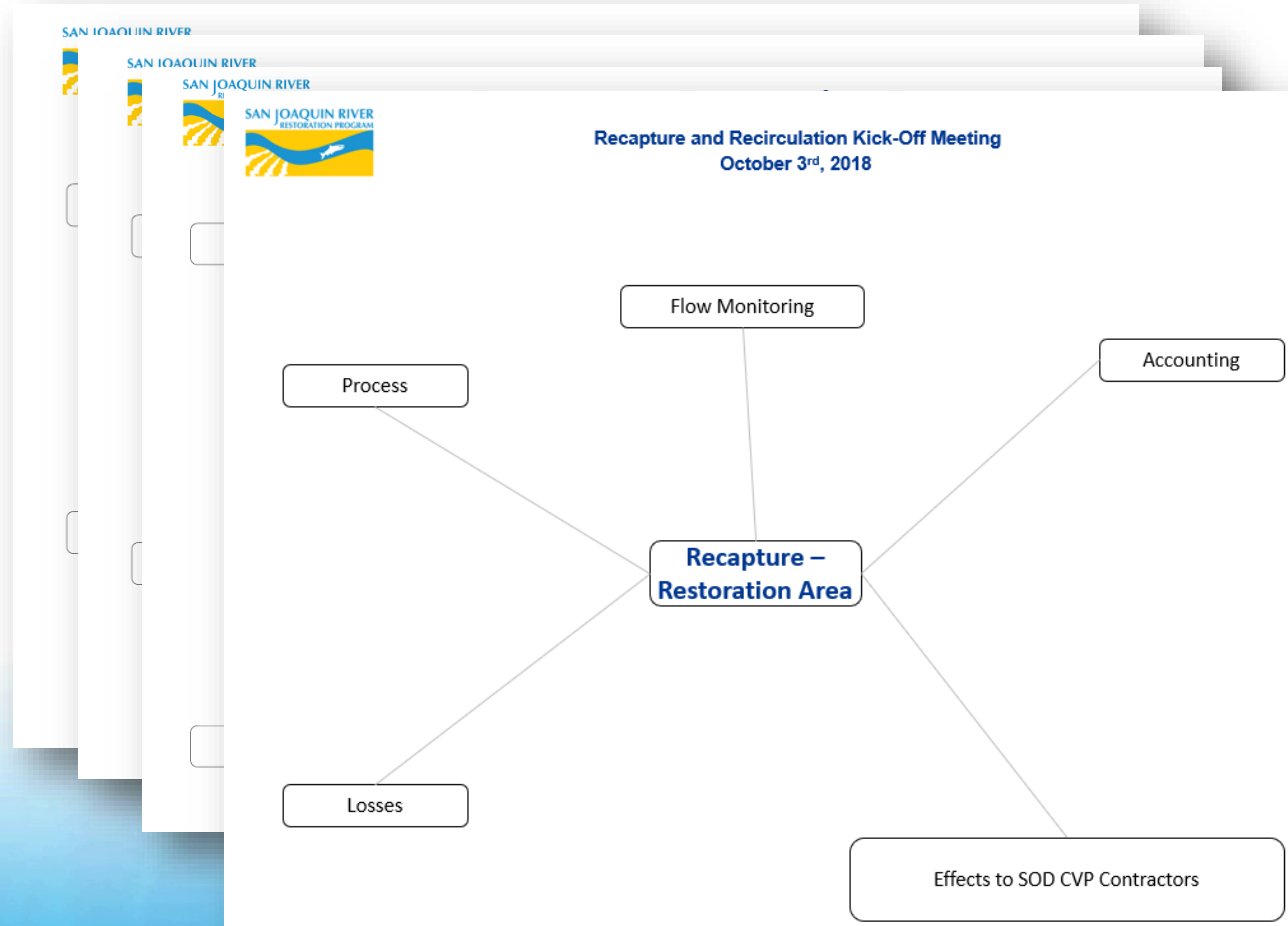
Table 3

Delta Recapture

**Erika**  
Raymond



# Mind Maps







# Mind Mapping

---

1. This is a group brainstorm--no evaluation, no censorship, no agreement is required.
2. The person who names a trend says where it goes on the map. They also indicate if it is a category or part of a category.
3. Concepts should be content centered rather than positional. **It is idea generating** rather than problem solving.
4. Give concrete examples of what is proposed and the types of issues that may be incorporated.