Agenda

Sacramento Suburban Water District

Water Banking Committee Meeting

3701 Marconi Avenue
Sacramento, CA 95821

Monday, October 30, 2023
3:00 p.m.

This meeting will be conducted both in-person in the Sacramento Suburban Water District's Boardroom at the address above, and by videoconference and teleconference using the information provided below. The public is invited to listen, observe, and provide comments during the meeting by any method provided. The Chairperson will call for public comment on each agenda item at the appropriate time. If a member of the public chooses to participate in this public meeting via videoconference and/or teleconference, please see the instructions below.

For members of the public interested in viewing and having the ability to comment at the public meeting via Zoom, an internet enabled computer equipped with a microphone and speaker or a mobile device with a data plan is required. Use of a webcam is optional. You also may call in to the meeting using teleconference without video. Please use the following login information for videoconferencing or teleconferencing:

Join the meeting from a computer, tablet or smartphone:
https://us02web.zoom.us/j/89722483591?pwd=aXVuZ2F2aStXbjJ2Z2ZZRnFqNGZ1Zz09

Meeting ID: 897 2248 3591
Password: 532569

You can also dial in using your phone: 1 (669) 900-6833

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Zoom uses encryption of data during Zoom meetings. The two Agencies use a secure password to restrict access to scheduled meetings. The meeting host has control of content sharing, recording, and chat.

Please mute your line.

Where appropriate or deemed necessary, the Committee may take action on any item listed on the agenda, including items listed as information items. Public documents relating to any open session item listed on this agenda that are distributed to all or a majority of the members of the Committee less than 72 hours before the meeting are available for public inspection at each Agency's Administrative Offices.

The public may address the Committee concerning an agenda item either before or during the Committee's consideration of that agenda item. Persons who wish to comment on either agenda or non-agenda items should fill out a Comment Card and give it to either one of the General

Managers. The Chairperson will call for comments at the appropriate time. Comments will be subject to reasonable time limits (3 minutes).

In compliance with the Americans with Disabilities Act, if you have a disability, and you need a disability-related modification or accommodation to participate in this meeting, then please contact Sacramento Suburban Water District Human Resources at 916.679.3972. Requests must be made as early as possible, and at least one full business day before the start of the meeting.

Call to Order

Roll Call

Public Comment
This is an opportunity for the public to comment on non-agenda items within the subject matter jurisdiction of the Committee. Comments are limited to 3 minutes.

Consent Items
The Committee will be asked to approve all Consent Items at one time without discussion. Consent Items are expected to be routine and non-controversial. If any Committee member, staff, or interested person requests that an item be removed from the Consent Items, it will be considered with the Items for Discussion and/or Action.

1. **Draft Minutes of the February 17, 2021, Ad Hoc Water Banking and Transfer Committee Meeting**
   Recommendation: Approve the Draft Minutes of the February 17, 2021, Ad Hoc Water Banking and Transfer Committee Meeting.

Items for Discussion and/or Action

2. **Sacramento Regional Water Bank**
   Recommendation: Receive presentation and direct staff as appropriate.

Adjournment

* *

Upcoming Meetings:

Wednesday, November 1, 2023, at 4:00 p.m., Audit Committee Meeting
Thursday, November 2, 2023, at 5:00 p.m., Special Board Meeting – Closed Session
Monday, November 20, 2023, at 6:00 p.m., Regular Board Meeting

* *

I certify that the foregoing agenda for the October 30, 2023, meeting of the Sacramento Suburban Water District was posted by October 26, 2023, in a publicly-accessible location at the Sacramento Suburban Water District office, 3701 Marconi Avenue, Sacramento, California, and was made available to the public during normal business hours.

Dan York
General Manager/Secretary
Sacramento Suburban Water District

Back to Agenda

Agenda Item: 1

Date: October 30, 2023

Subject: Draft Minutes of the February 17, 2021, Ad Hoc Water Banking and Transfer Committee Meeting

Staff Contact: Dan York, General Manager

Recommended Committee Action:
Approve the Draft Minutes of the February 17, 2021, Ad Hoc Water Banking and Transfer Committee Meeting.

Attachment:
1 – Draft Minutes of the February 17, 2021, Ad Hoc Water Banking and Transfer Committee Meeting

Minutes

Sacramento Suburban Water District
Ad Hoc Water Banking and Transfer Committee
Wednesday, February 17, 2021

Location:
Video and Audio Conference Only at 1-669-900-6833, or Zoom at Meeting Id #883 1671 8128

Call to Order – Videoconference/Audioconference Meeting
Chair Thomas called the meeting to order at 4:10 p.m.

Roll Call

Directors Present:	Kevin Thomas and Kathleen McPherson.
Directors Absent:	None.
Staff Present:	General Manager Dan York, Dana Dean, Jeff Ott, and Heather Hernandez-Fort.
Public Present:	William Eubanks, Jim Mulligan and Dave Jones.

Announcements
None.

Public Comment
William Eubanks (Mr. Eubanks) inquired what the purpose of the Committee was.

General Manager Dan York (GM York) provided reasons for the need of the Ad Hoc Water Banking and Transfer Committee.

Consent Items

1. **Minutes of the September 28, 2020, Water Banking and Transfer Committee Meeting**
   The Committee approved the minutes of the September 28, 2020, Water Banking and Transfer Committee Meeting.

Items for Discussion and/or Action

2. **Placer County Water Agency Memorandum of Understanding for Wheeling Capacity**
   GM York presented the staff report and answered clarifying questions.

Chair Thomas supported the staff recommendation and added that he supported continuing a relationship with Placer County Water Agency.

The Committee approved the staff recommendation and directed staff to present the Item on the Consent Agenda at the next regular Board meeting, with Committee support for approval, pending District counsel review.

3. 2021 Water Transfer Program Update

GM York presented the staff report and answered clarifying questions.

Director McPherson requested staff research ways this could benefit the rate payers, how it could keep rate increase from happening and provide ways the extra revenue could reduce current of rates, and report back their findings.

GM York provided some examples of the benefits of water transfers and expressed staff would report back.

Mr. Eubanks inquired what Director McPherson was asking for.

Director McPherson answered that she wanted specific information from staff on how the additional revenue could impact the current rates.

Mr. Eubanks expressed that the Board could impact the rate increase by voting against it.

GM York reminded the Committee that the revenue gained from water transfers was not guaranteed income, so it should not be used in calculation for future planning, but that the revenue gained could be used towards specific projects as those funds come in.

Jeff Ott expressed that there were lots of options and one is that the additional funds could be placed in reserves and the Board could make future decisions on those excess funds.

Director McPherson expressed that she would like to see the rate payers benefit from the efforts of these water transfers.

Discussion ensued regarding cost savings efforts.

Adjournment

Chair Thomas adjourned the meeting at 4:35 p.m.

Dan York
General Manager/Secretary
Sacramento Suburban Water District

Back to Agenda

Agenda Item: 2

Date: October 30, 2023

Subject: Sacramento Regional Water Bank

Staff Contact: Matt Underwood, Assistant General Manager

Recommended Committee Action:
Receive presentation and direct staff as appropriate.

Background:
Water management in the North and South American subbasins (hereafter called the American River Basin) is facing the combined climate pressures of warming air temperatures, shrinking snowpack, shorter and more intense wet seasons, more volatile precipitation, and rising sea levels affecting the Sacramento-San Joaquin Delta (Delta). These climate pressures will make it more challenging to simultaneously store and maintain water for droughts, manage flood risk, and protect freshwater ecosystems. Warming air temperature has complex adverse effects on water supply—it reduces the share of precipitation falling as snow, causes early snowpack melting and higher than usual winter runoff, raises water temperatures, and amplifies the severity of droughts and floods. Warmer, more intense droughts increase pressure to draw down groundwater resources. Overreliance on groundwater for supply can lead to long-term declines in groundwater levels. Warmer, more intense storms add stress to managing surface reservoirs, making it harder to meet often competing objectives of storing water, safeguarding communities from harmful floods, and protecting freshwater ecosystems. Sea level rise threatens the Delta and puts more pressure on Folsom Reservoir to contribute flows to help meet Delta water quality requirements.

In the Sacramento region, implementation of a coordinated practice of conjunctive use by local water agencies has played a considerable role in making the region's water supply more reliable over the past two decades. Water managers in the region have identified expansion of that conjunctive use practice (also known as "groundwater banking") as one of several key strategies to improve drought resiliency, long-term groundwater sustainability, and climate change adaptation in the face of ever-increasing management challenges. Moreover, recent studies—in particular, the locally-led 2019 Regional Water Reliability Plan and the 2022 American River Basin Study produced by the U.S. Department of the Interior, Bureau of Reclamation (Reclamation) in partnership with local water agencies—identified the establishment of a regional water bank as a necessary institutional mechanism to facilitate and incentivize expansion of conjunctive use.

Discussion:

To enhance the long-term viability of the Sacramento region's community, businesses, and families, water managers are focusing on adapting the regional water supply system to climate change and drought by expanding conjunctive use and thereby increasing the resilience of the region's water supplies and creating a 21st-century water system. This program is known as the Sacramento Regional Water Bank (Water Bank).

The Water Bank is a multi-agency partnership that allows participating local water agencies to expand their conjunctive use operations by leveraging surface water, recycled water, and groundwater supplies to use the expansive reservoir under the Sacramento region for storing water during wet times for use during dry times. The Water Bank provides for recharging and storage of water underground on behalf of specific parties, while maintaining a formal accounting system to keep track of balances (i.e., deposits when water is recharged and withdrawals when it is recovered in the future).

The Water Bank is structured to reduce barriers to expanding conjunctive use—these barriers could be institutional (e.g., agreements, operational issues, water quality concerns), financial (e.g., cost to produce water, cost of expansion), or structural (e.g., facility limitations)—while complying with existing regulations, requirements, and goals of Groundwater Sustainability Plans in the American River Basin.

The Water Bank builds on the ongoing regional conjunctive use program and existing infrastructure and facilities, meaning that the foundation of the Water Bank is in-place and operational. At present and using that existing infrastructure, it may be possible to recharge up to 60 thousand acre-feet (TAF) in a very wet year using municipal sources and recover up to 60 TAF in a very dry year. With near-term, new infrastructure, those recharge and recovery quantities could total up to 90 TAF in a year. The Water Bank has the potential to grow over time, making use of other sources of supply and means of recovery. Put in context, the North and South American groundwater sub-basins currently have about 1.8 million acre-feet (MAF) of unused storage that could store surface water during wet conditions for use when surface water supplies are more limited, as during a drought. In addition, there are opportunities to increase the availability of supply using recycled water.

In addition to improving long-term water supply reliability and resiliency, the Water Bank provides an opportunity to take advantage of regional conjunctive use operations to increase the operational flexibility of Folsom Reservoir. Folsom Reservoir plays critical roles in (1) managing temperature in the lower American River to support aquatic life, (2) Delta water quality for the enhancement and protection of Delta fisheries and ecosystem, and (3) Reclamation's Central Valley Project (CVP) water supply functions statewide.

Trevor Joseph, Regional Water Authority Manager of Technical Services, will present the attached presentation.

Strategic Plan Alignment:

Goal A: Provide a High-Quality Reliable Water Supply by Ensuring it is Sustainable, Clean and Safe

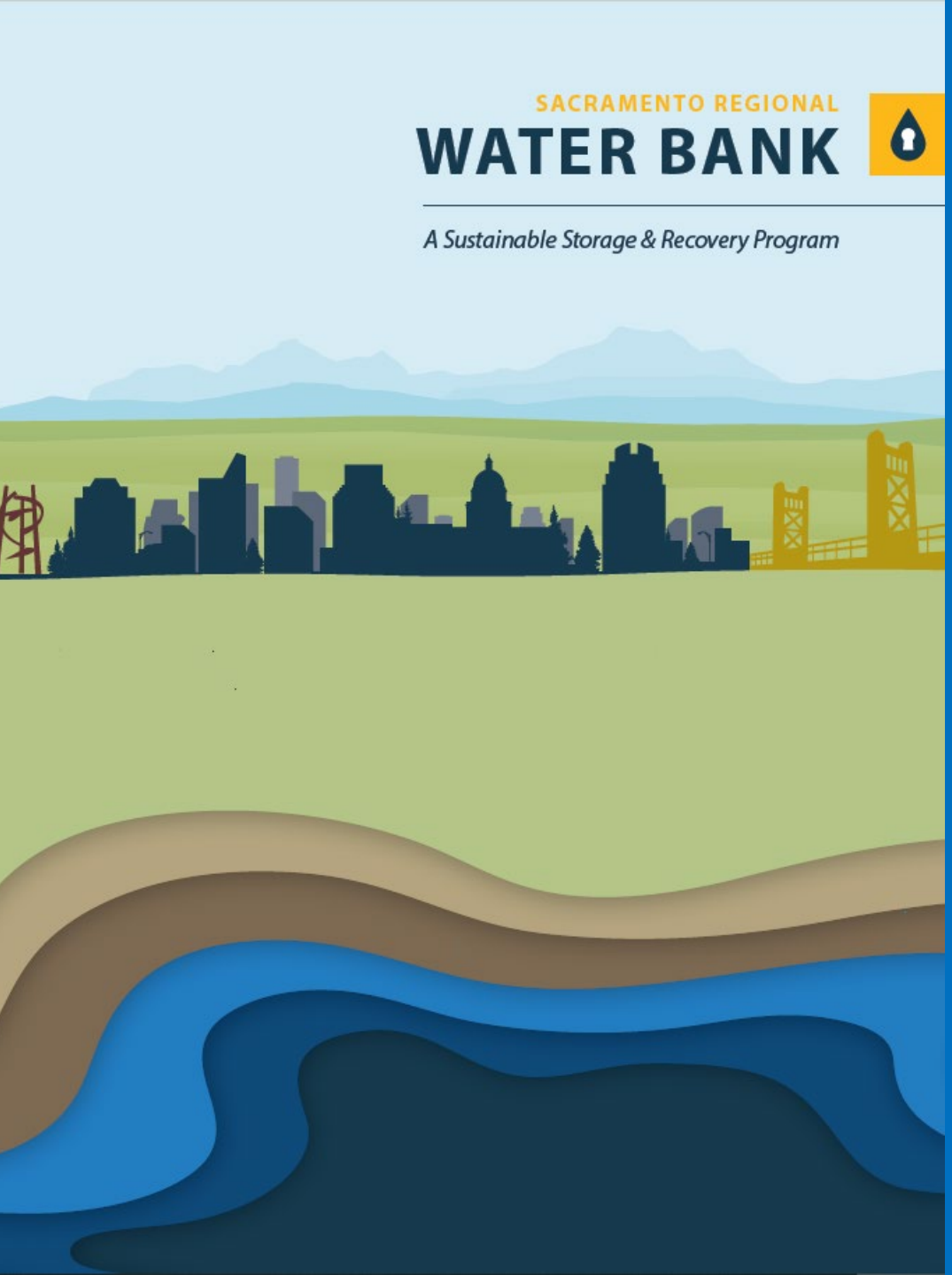
Goal B: Optimize Operational and Organizational Efficiencies

Goal C: Ensure Fiscal Responsibility and Affordable Rates

Goal D: Maintain Excellent Customer Service

Attachment:

1. Sacramento Regional Water Bank Presentation



Sacramento Regional Water Bank Development Project

Sacramento Suburban Water District – Water Banking Committee Meeting

October 30, 2023

Regional Water Authority
BUILDING ALLIANCES IN NORTHERN CALIFORNIA

ECOS & Water Forum Meeting

Current Status and Schedule

Stages of Water Bank Development

Regional Water Authority
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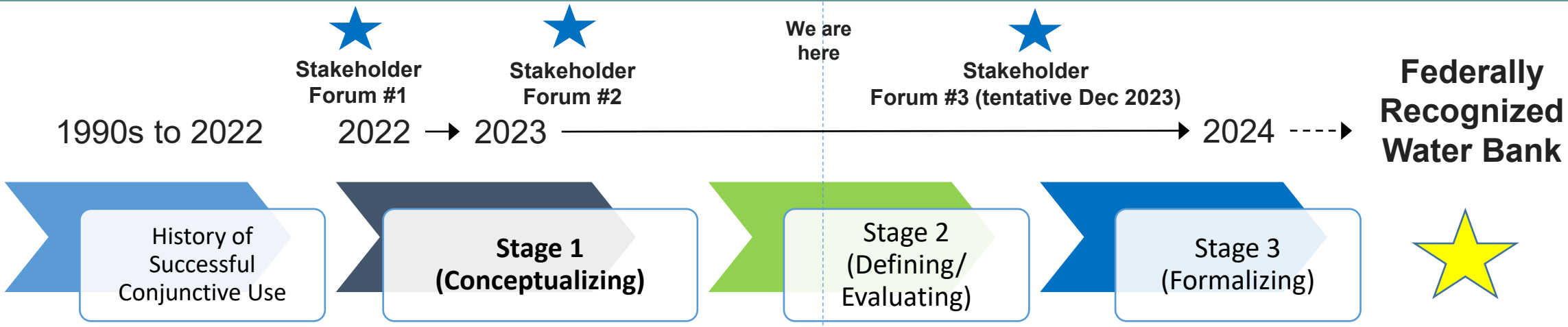


Major Milestones

- Regional Infrastructure
  - Cooperative Transmission Pipeline
  - Aquifer Storage & Recovery
  - Interties
  - Conveyance
  - Wells
- Planning & Programs
  - Groundwater Substitution Transfers
  - Integrated Regional Water Management.
  - Regional Water Reliability Plan
  - Groundwater Sustainability Plan

Major Activities

- Communication and Outreach
- Coordination - Federal / State / External Entities
- Project Scoping / Description
- Improving Technical Tools
- Governance & Institutional
- Preliminary & Refined Alternatives
- CEQA/NEPA

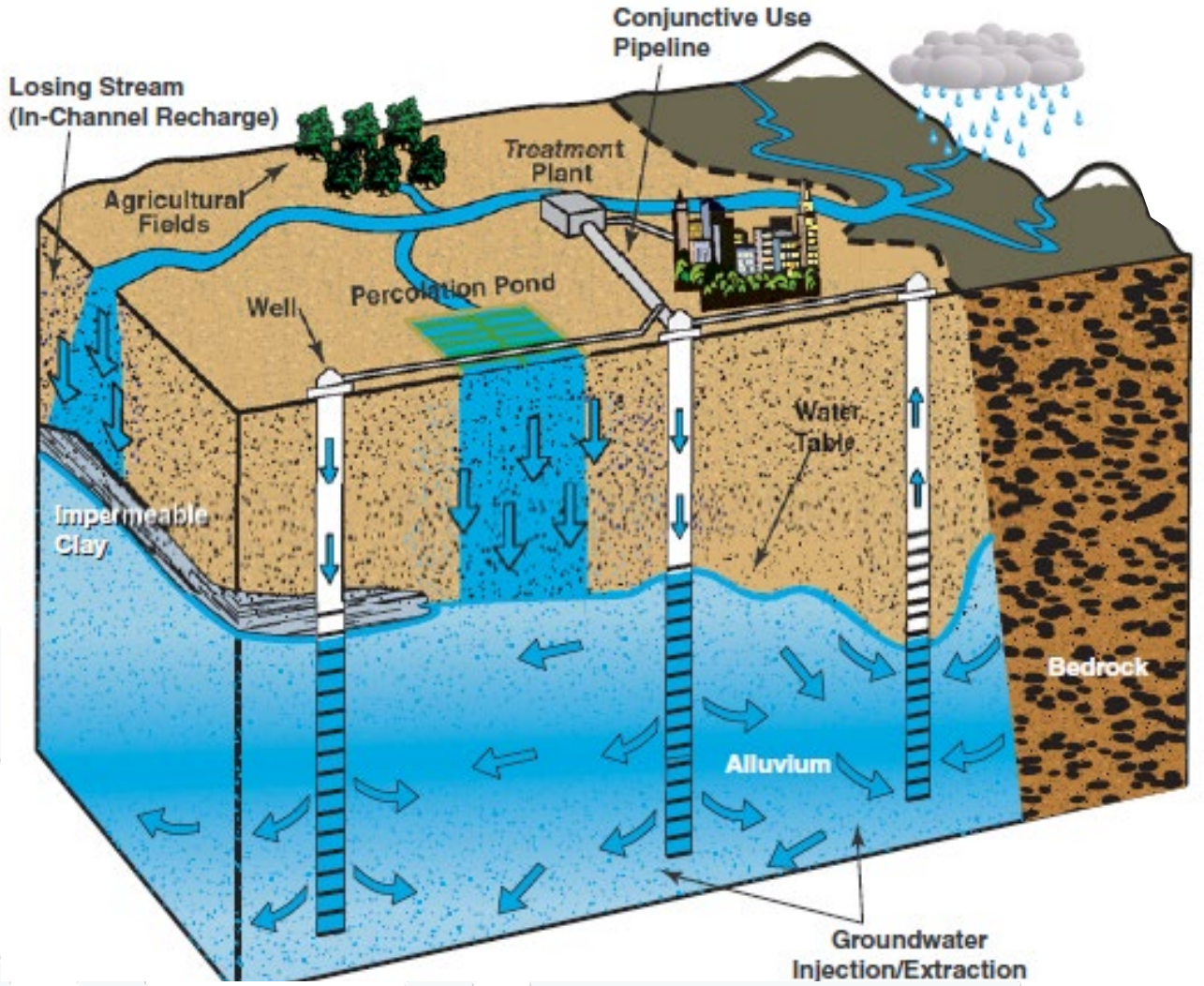
Groundwater and Recharge Methods

Natural Recharge

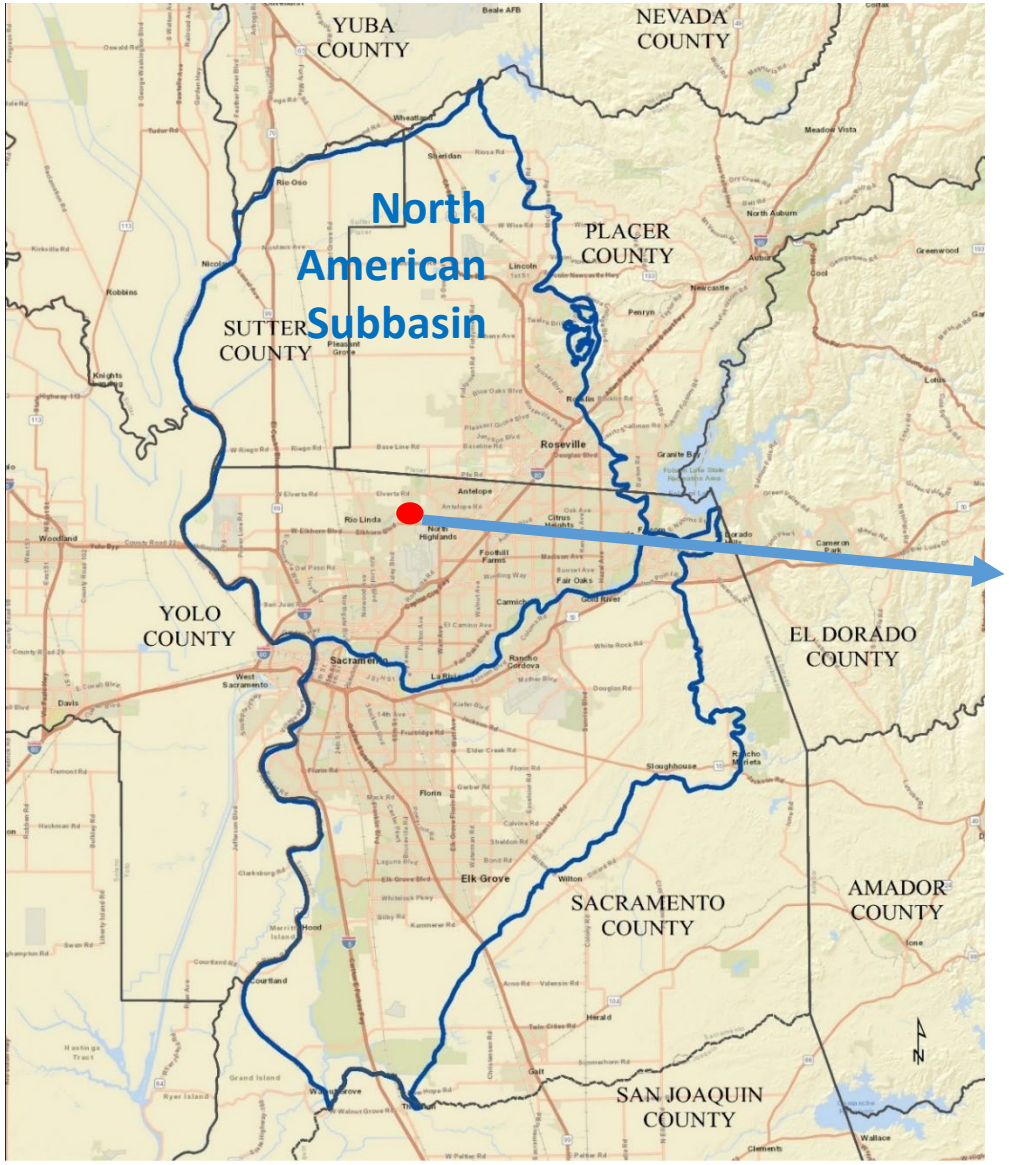
- Streams and Creeks
- Mountain Front
- Rain – Direct Percolation

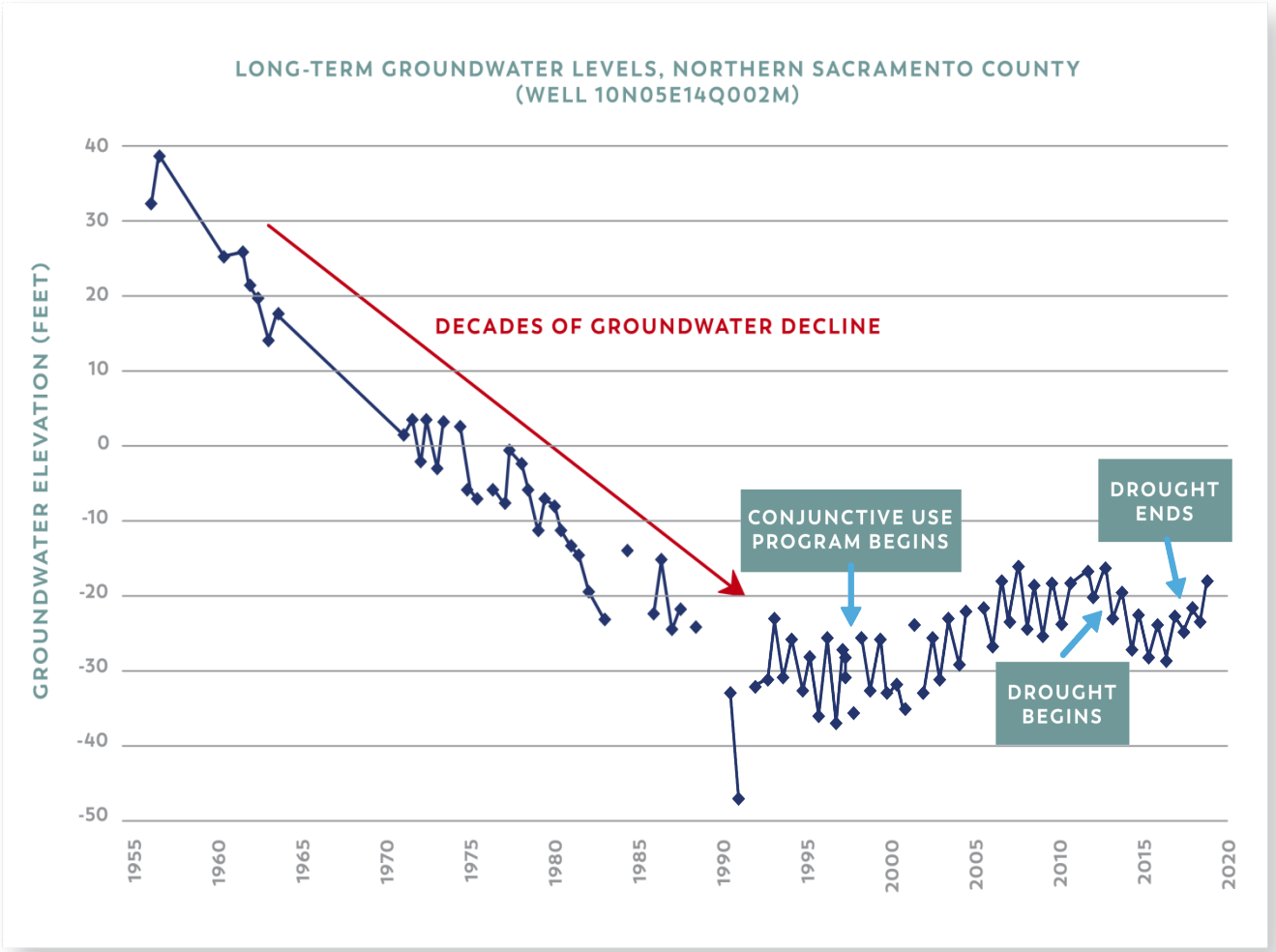
Artificial Recharge

- **Direct Recharge**
  - Injection Wells
  - Percolation Ponds
- **In-Lieu Recharge**
  - *Storing water by utilizing surface water "**in-lieu**" of pumping*

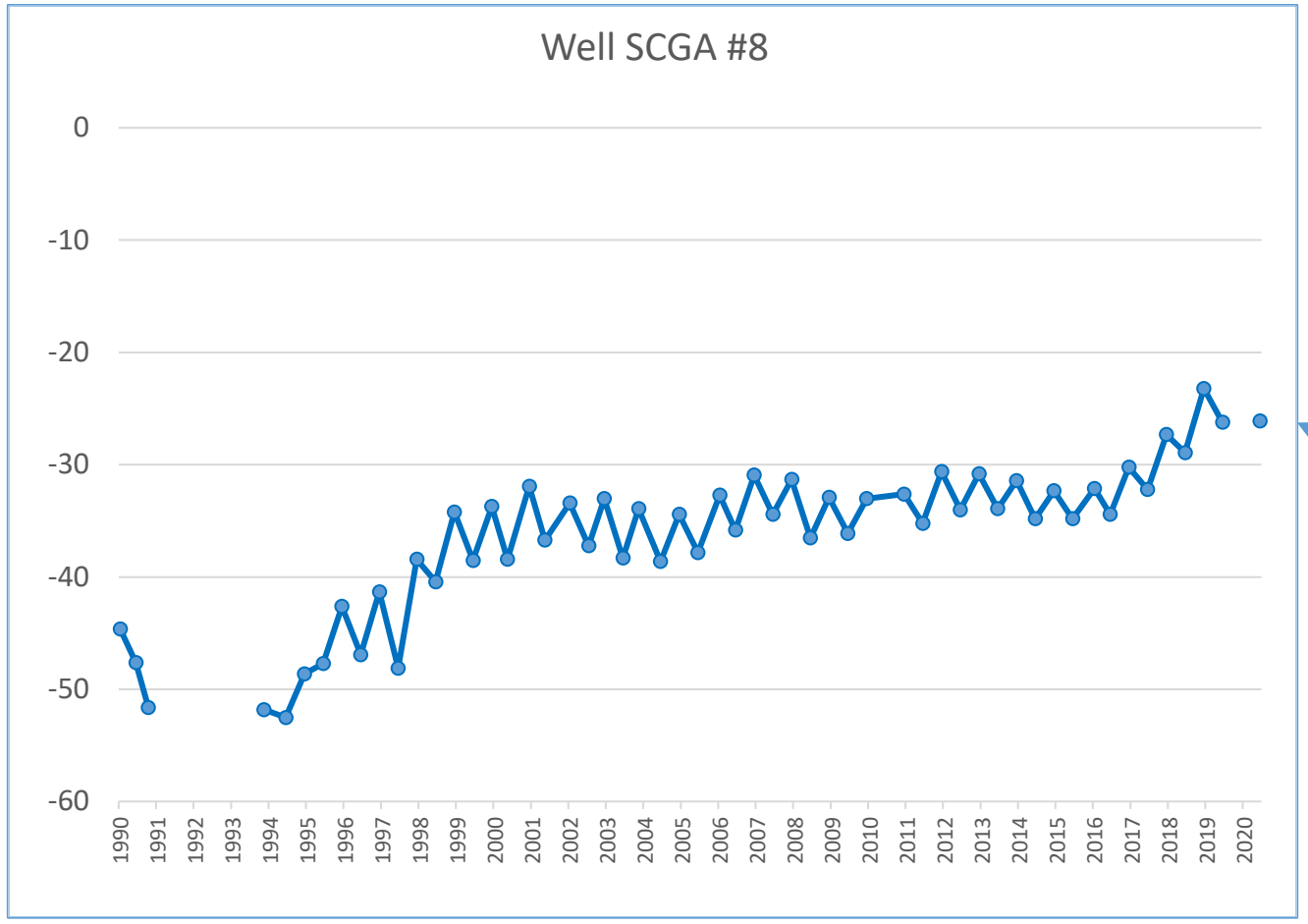


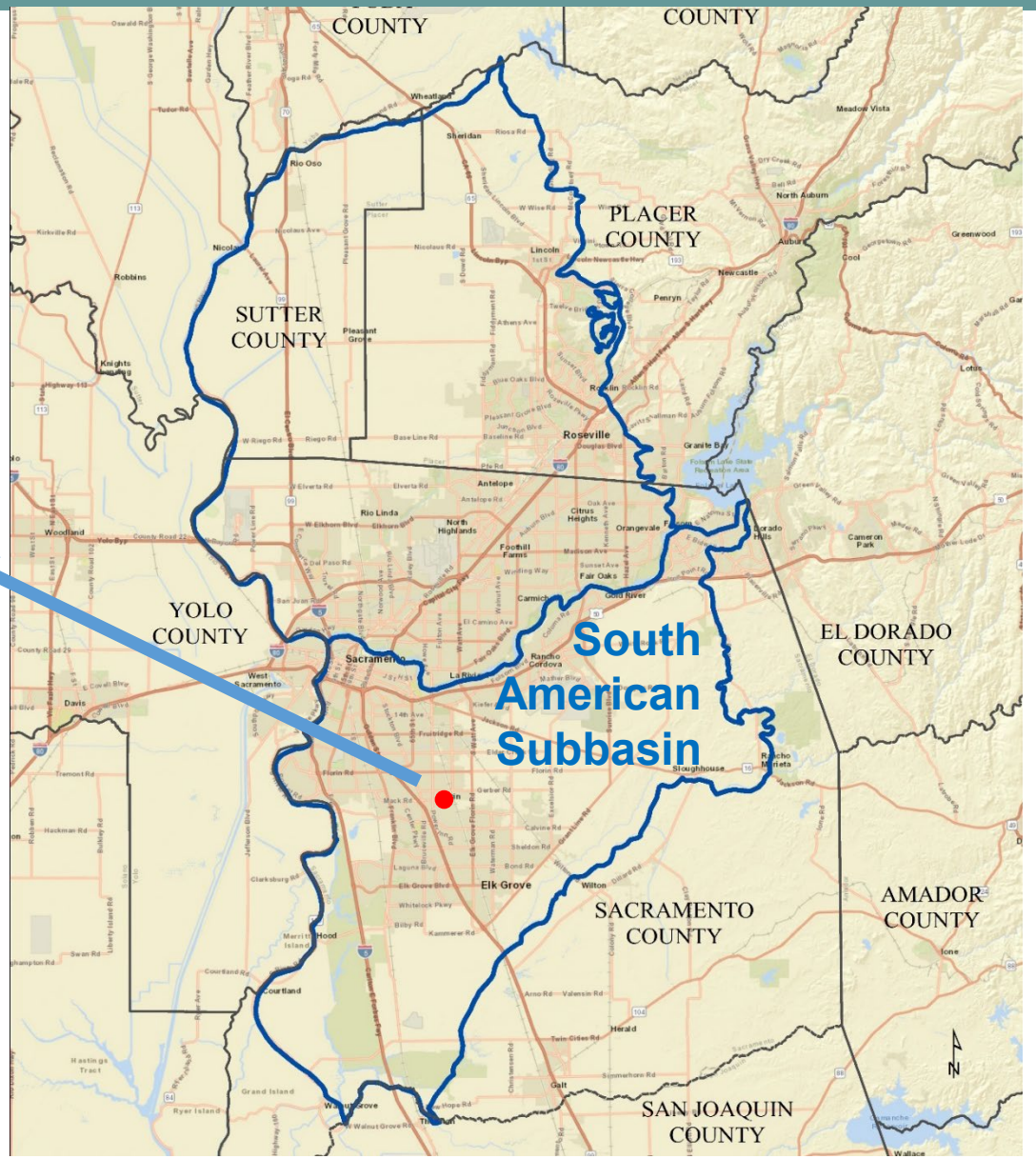
Conjunctive Use—Proven Method of Groundwater Management



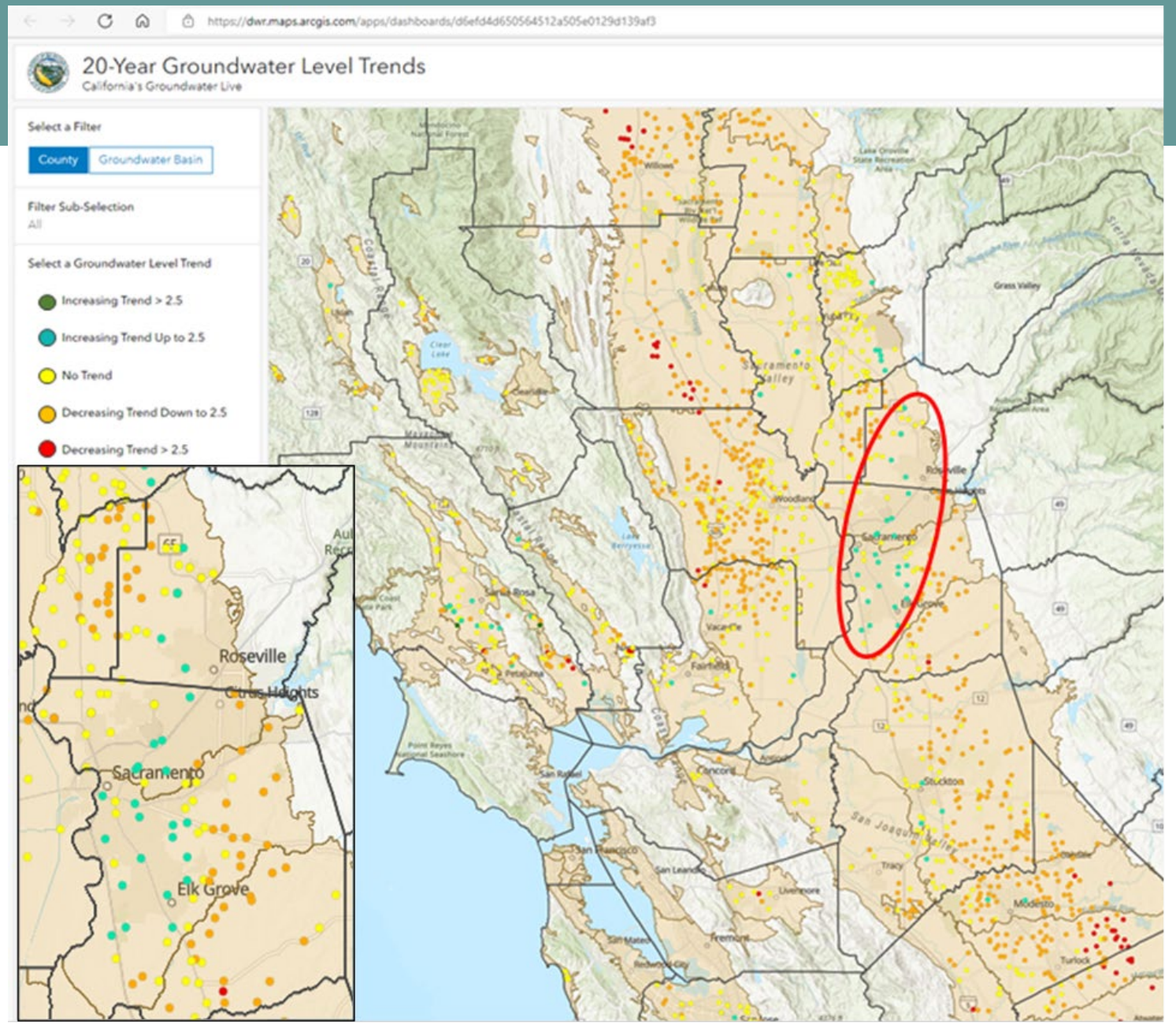


Conjunctive Use—Proven Method of Groundwater Management (cont.)



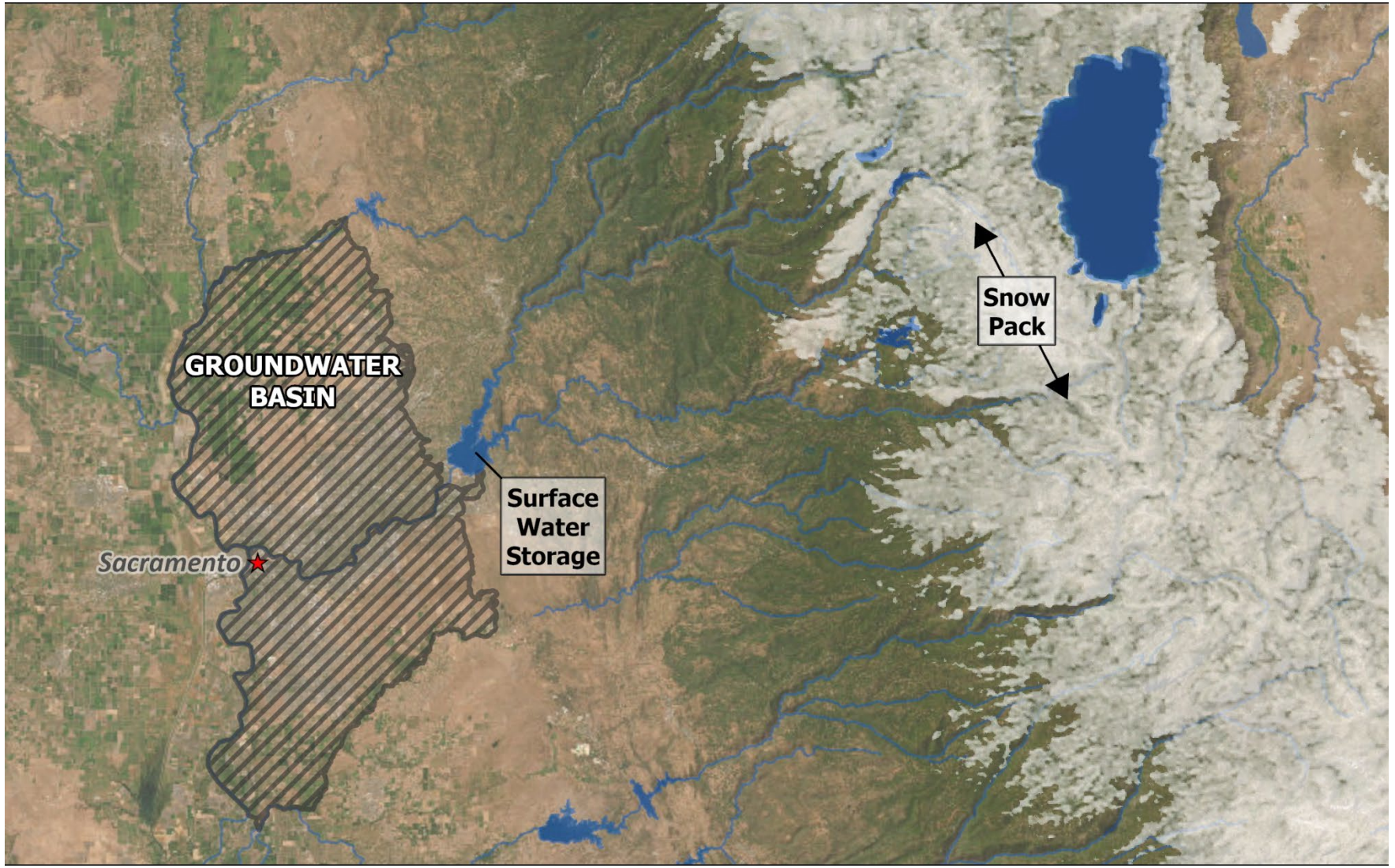


Groundwater Level Trends



Scale of Groundwater Storage

- Historical reliance on **snowpack**, **surface water**, and **groundwater**
- Going forward, **groundwater storage** and **recovery** needs to be a more prominent part of our vision



Federally Acknowledged Water Banks

Regional Water Authority
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BUREAU OF RECLAMATION

Groundwater Banking Guidelines for Central Valley Project Water

Effective Date: November 12, 2014
Updated October 4, 2019

	Acknowledged Water Banks	Identifer Number
1	North Kern Water Storage District	05-WC-20-3256
2	Rosedale-Rio Bravo Water Storage District	05-WC-20-3257
3	Semitropic Water Storage District	05-WC-20-3258
4	Tulare Lake Basin Water Storage District	05-WC-20-3259
5	Cawelo Water District	05-WC-20-3260
6	Lakeside Irrigation District	05-WC-20-3261
7	Kaweah Delta Water Conservation District	05-WC-20-3266
8	Kern Water Bank Authority	18-WC-20-5263
9	Meyers Farms Family Trust	N/A
10	Pixley Water Bank Project	18-WC-20-5264
11	West Kern Water District Groundwater Bank	18-WC-20-5255

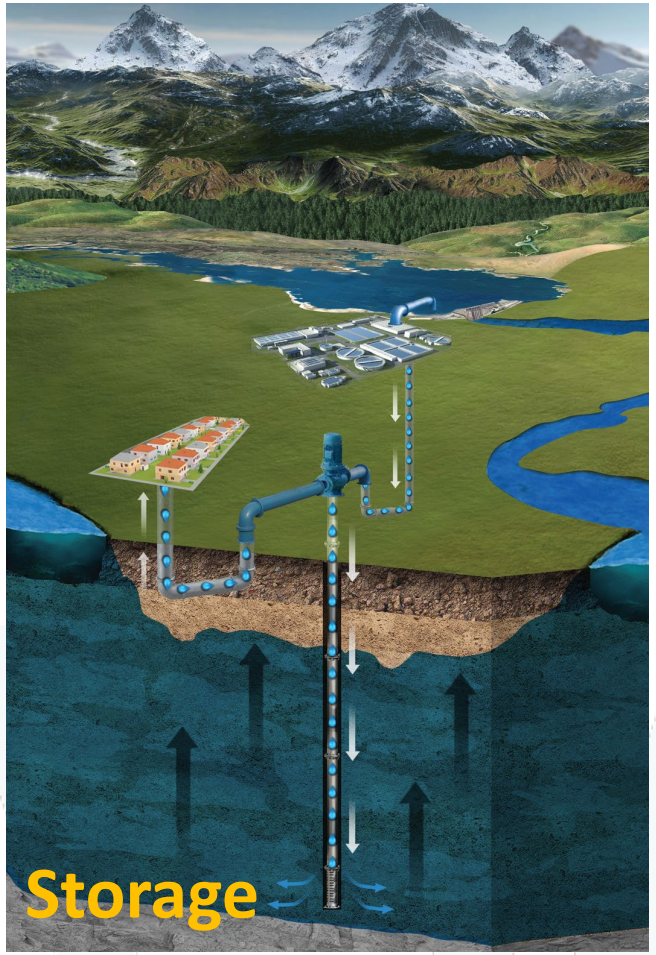
In-Lieu Water Banks and Project

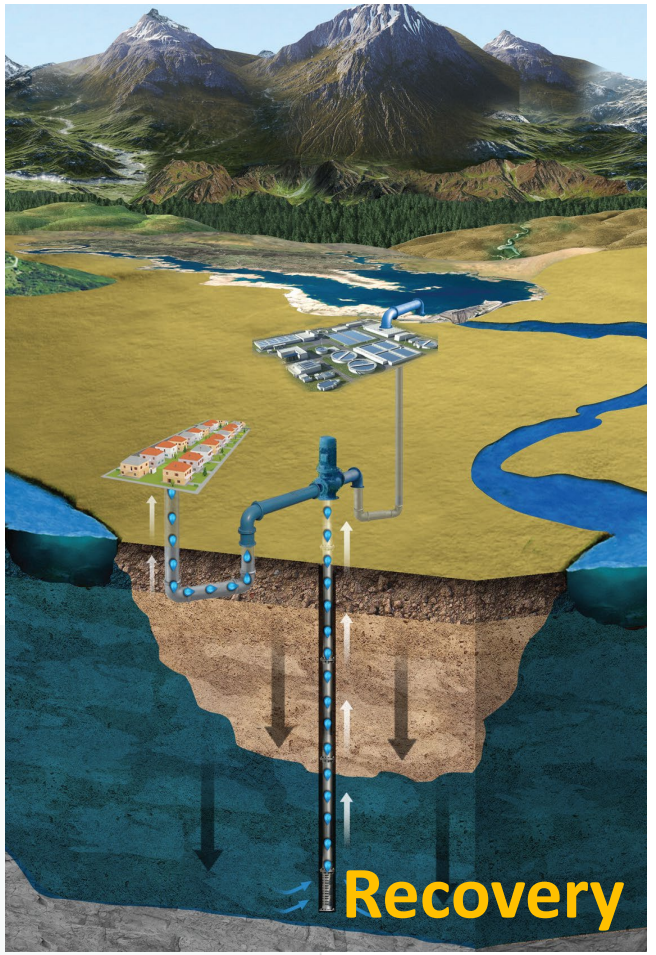
Example Groundwater Banking Programs and CVP Acknowledged Water Banks that Rely on both Direct and In-Lieu Recharge

Project	**Location**	**In Lieu Recharge**	**Direct Recharge**	**CVP Acknowledged Water Bank *(Identifier Number)***
Cawelo Water District	Kern County	■	■	05-WC-20-3260
Pixley Water Bank Project	Tulare County	■	■	18-WC-20-5264
Rosedale Rio Bravo Water Storage District	Kern County	■	■	05-WC-20-3257
Semitropic Water Storage District	Kern County	■	■	05-WC-20-3258
Arvin Edison Water Storage District	Kern County	■	■	N/A
Buena Vista Water Storage District	Kern County	■	■	N/A
Kern Delta Water Storage District	Kern County	■	■	N/A
Orange County Water District	Orange County	■	■	N/A

What is a Water Bank?

- Water banks recharge and store water underground on behalf of specific parties
- Water banks require formal accounting systems to keep track of balances
  - Balances are drawn down during dry times, as water is withdrawn
  - Balances increase during wet times, as water is deposited



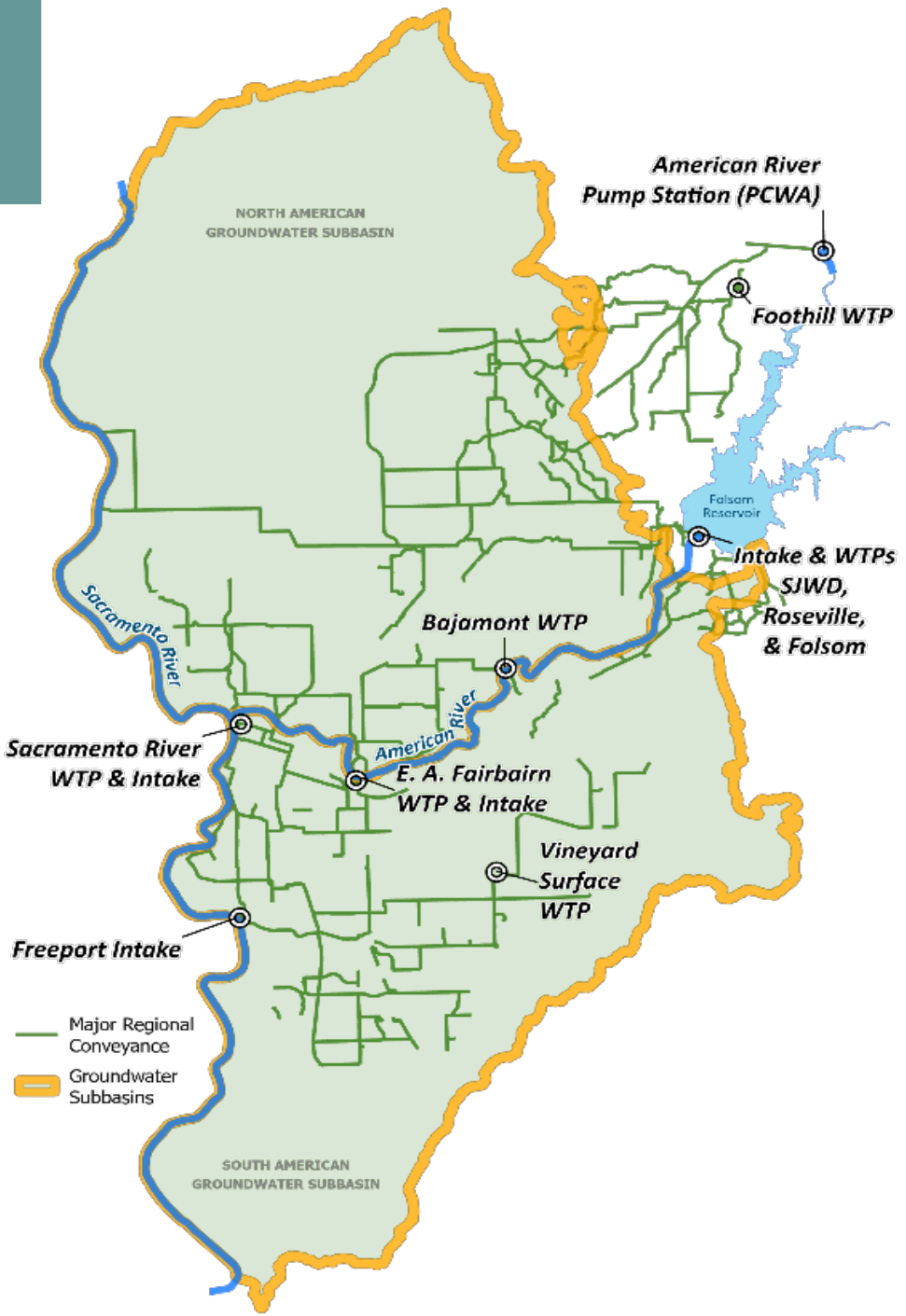


Water Bank – Existing Facilities

Existing facilities would be used to:

- Divert surface water
- Treat surface water for use by participating agencies and/or injection into aquifer, using aquifer storage and recover wells
- Pump previously banked groundwater for use by Participating Agencies, to serve their customers

Note: facilities shown are subject to change

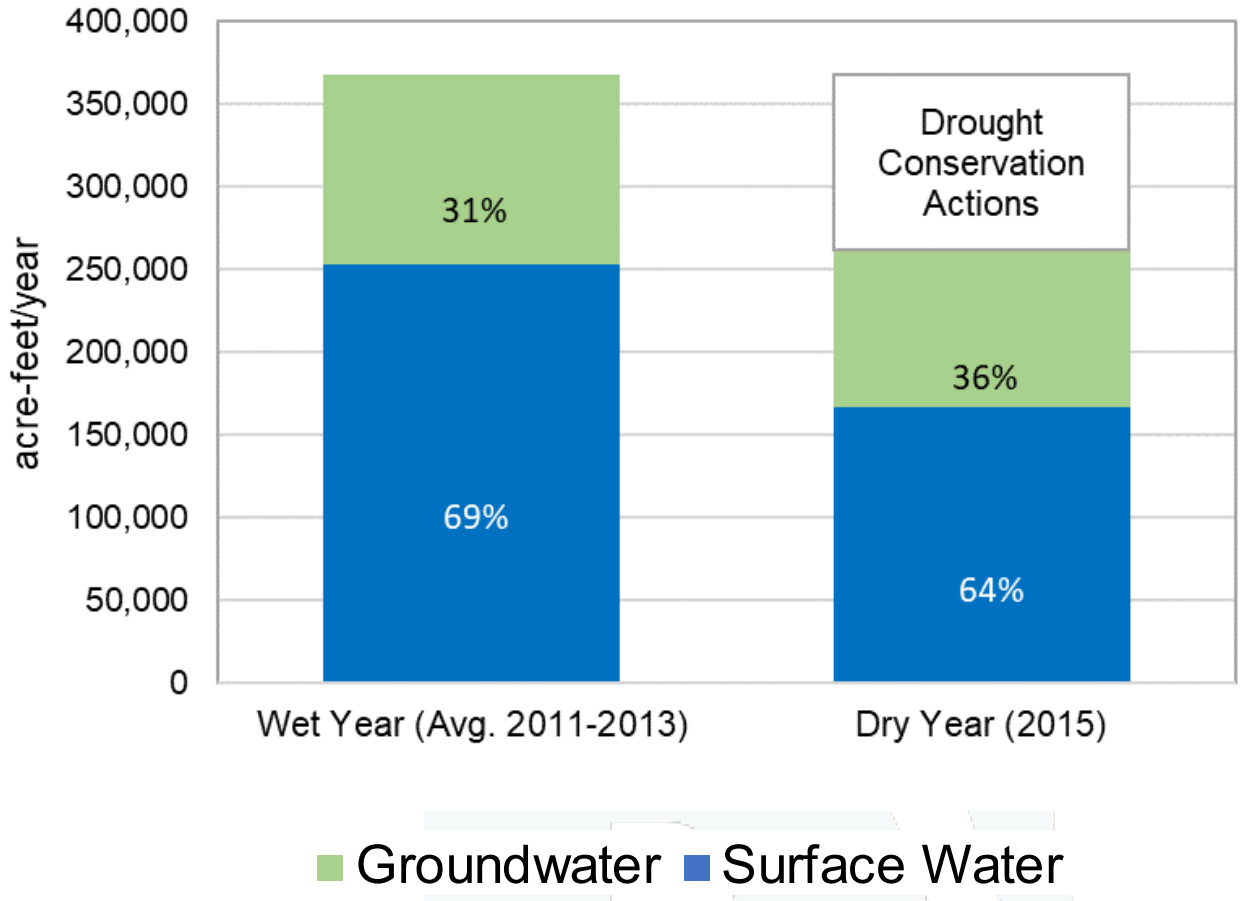


ECOS & Water Forum Meeting

How the Water Bank works?

Water Bank – Shifting Water Sources

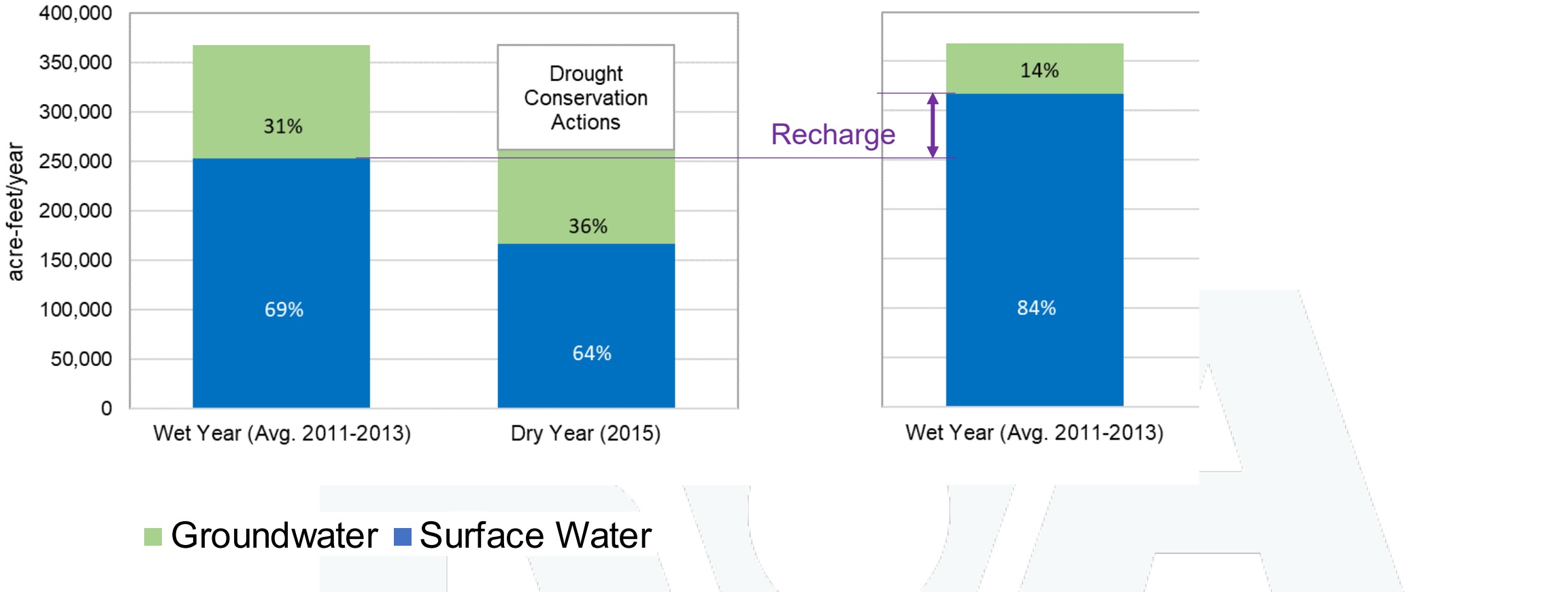
Current Conditions



Water Bank – Shifting Water Sources (cont.)

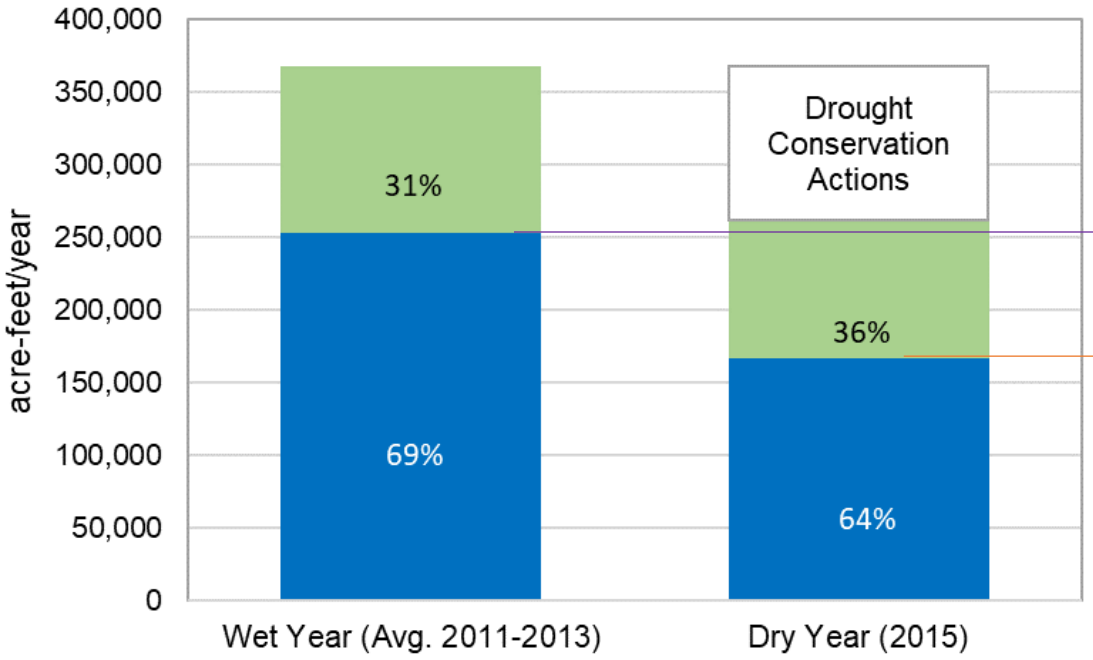
Current Conditions

Conditions With the Water Bank

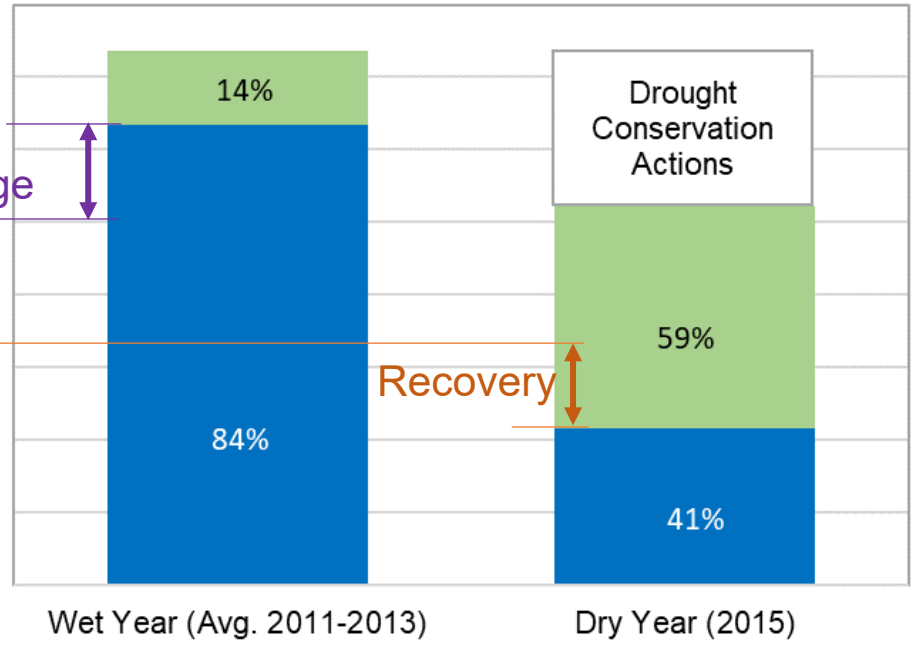


Water Bank – Shifting Water Sources (cont.)

Current Conditions



Conditions With the Water Bank



Groundwater Surface Water

ECOS & Water Forum Meeting

Standards

Applicable Regulatory Setting

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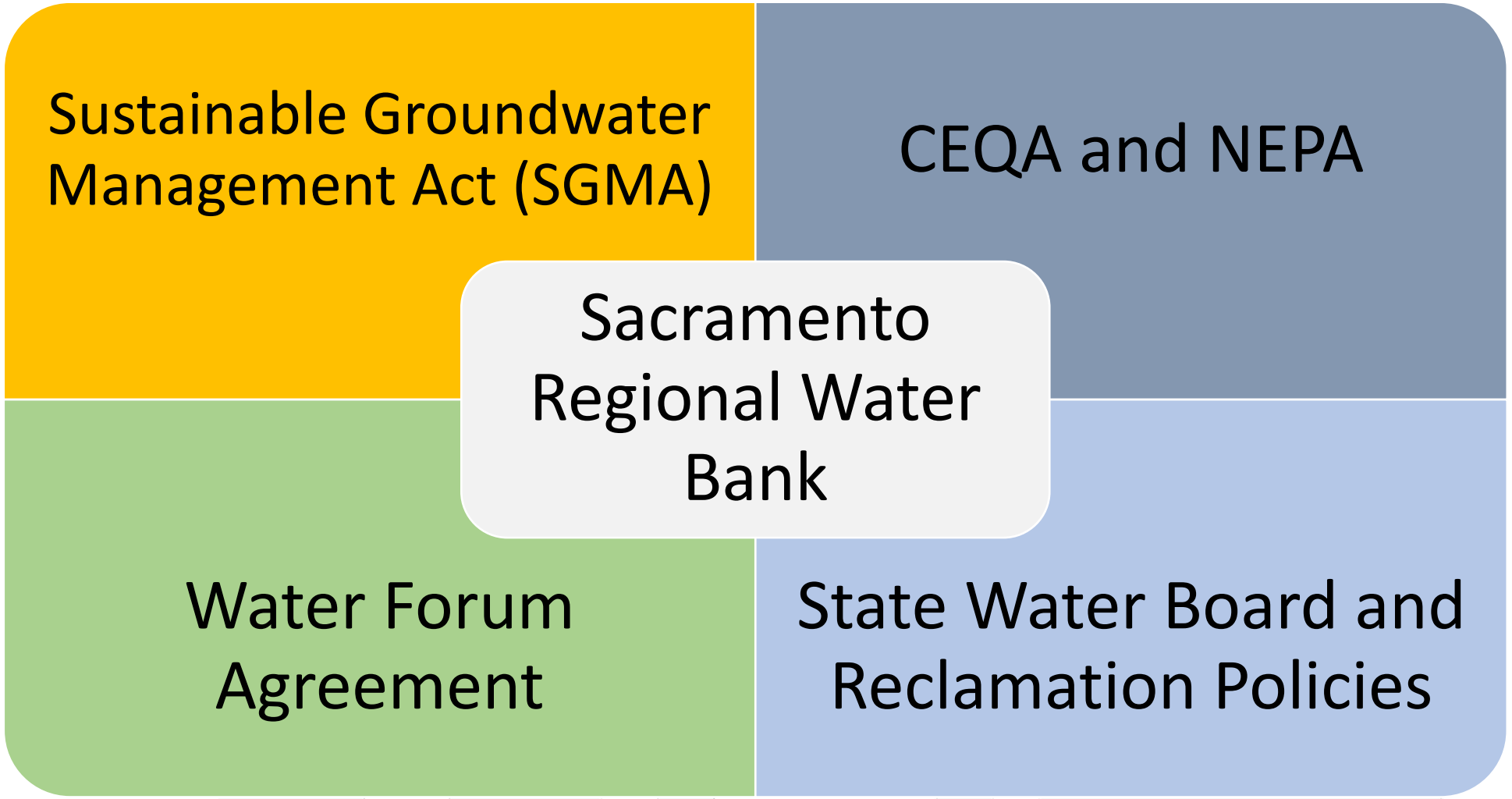

Water Bank – Goals/Objectives and Principles

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Goal

The **GOAL** of the Water Bank is to expand conjunctive use, thereby increase water banking operations throughout the region to:

(1) Improve long-term regional reliability and provide statewide water supply opportunities when possible; and

(2) Support healthy ecosystem function on the lower American River.

Objectives

The Water Bank **OBJECTIVES** are to:

- Increase groundwater recharge during wet conditions using available surface and recycled water supplies.
- Reduce reliance on surface water during dry conditions by using previously banked groundwater.
- Contribute to water reliability of water agencies in the region with no or limited access to groundwater.
- Contribute to water reliability of water agencies in the region with no or limited access to surface water.
- Maintain the quality of surface water and groundwater.
- Contribute to CVP operational flexibility by reducing reliance on Folsom Reservoir during dry conditions.
- Contribute to healthy ecosystem function, including on the lower American River.
- Consider and advance mutually beneficial opportunities to partner with entities outside the region on operational collaboration and/or investment in the Water Bank.
- Generate revenue for investment in infrastructure and other projects/programs to improve regional water supply reliability, resiliency, and affordability for participating agencies.
- Generate revenue to reduce financial barriers to conjunctive use for participating agencies.

Principles

The **PRINCIPLES** provide guidance on Water Bank development, implementation and decision making. They include:

- **Regional Water Management**
  - Contribute to long-term sustainability of the region's groundwater basins by committing a portion of recharge to basin sustainability.
  - Operate consistent with the pertinent GSPs to ensure basin sustainability.
  - Maximize beneficial use of surface water in basin.
  - Contribute to meeting current and future water resources needs in the region.
  - Maintain and improve water supply reliability in the region.
- **Environmental Stewardship**
  - Identify and avoid negative effects on environmentally sensitive areas, in compliance with the governing GSPs (such as the lower American River and Cosumnes River).
  - Provide for ecosystem benefits from Water Bank operations.
- **Public Engagement**
  - Engage transparently with stakeholders during the Water Bank development and implementation process to promote dialogue, understand their concerns, and improve the process.
  - Coordinate with other efforts and entities in the region interested in the Water Bank and water supply reliability.
  - Build community awareness and encourage participation in stewardship of water resources, recognizing water as a public trust asset.
  - Consider beneficial uses and users of groundwater, including domestic well owners, agricultural water users, and the environment.
  - Provide education on the public benefits of Water Bank operations and transfer activities.
- **Water Bank Development and Operations**
  - Operate as a single water bank that covers both the North and South American subbasins (as several local water agencies overlie both subbasins and to recognize the existing inter-connectivity of local water agencies across the subbasins).
  - Conduct recharge actions before recovery actions.
  - Conduct water banking operations consistent with relevant statutory and regulatory obligations.
  - Recover no more than the net banked water in the basin.
  - Adaptively manage the Water Bank in compliance with the Sustainable Groundwater Management Act. (Conduct regular monitoring and evaluation actions to determine if Water Bank objectives are met. Prepare for changes in future conditions, including climate change effects. Incorporate best-available data and tools, as applicable, to reflect evolving science, changing regulations, and/or the monitoring and evaluation results.)
  - Operate in compliance with the governing GSPs.
- **Relationship to the CVP**
  - Operate the Water Bank consistent with the following tenets related to the CVP:
    - The Water Bank is locally managed and operated. It is not a CVP facility.
    - ~~For any CVP water used in the Water Bank, Reclamation's control and ownership of CVP water stops at the contractors' delivery points.~~
    - ~~If CVP water is stored in the Water Bank, it is delivered CVP water under the contractor's control.~~
    - Use of CVP water in the Water Bank is consistent with the authorized beneficial uses and places of use of Reclamation's water rights, as authorized through CVP contracts.[3]
    - Water Bank operations ~~do not~~ would be formulated to not affect or require modifications to Reclamation's water rights.
    - ~~Although the Water Bank may provide CVP operational flexibility benefits, Water Bank operations are not considered integrated into CVP operations and are therefore not subject to inclusion in the Endangered Species Act (ESA) consultation for long-term CVP/State Water Project (SWP) operations.~~ Water Bank operations would be formulated to not affect Reclamation's ability to meet its regulatory or contractual obligations.
    - The Water Bank does not impose new restrictions on the use of CVP water by local water agencies beyond those in their respective CVP contracts and applicable Reclamation policies.
    - Explore potential partnerships with Reclamation for the benefit of the CVP, while maintaining the Water Bank's independent operations and local control.
- **Banking Partner/Participant Success Factors**
  - Improve long-term water security, reliability, and resiliency in the region.
  - Create return on investment and reliable funding stream from long-term agreements.
  - Identify and meet local water agency/regional water reliability needs first.
  - Secure agreement on potential water transfer partners in terms of their water use(s) and location(s).
  - Provide opportunities for all local water agencies to participate in the Water Bank.
  - Maintain transparency of Water Bank operations and finances.
  - Maintain individual RWA member agency autonomy.
  - Seek external sources of funding and financial assistance for Water Bank development and implementation.
- **Third-Party[4] Success Factors**
  - Implement the Water Bank with no new restrictions on use of groundwater.
  - Maintain consistency with Sustainable Groundwater Management Act implementation.
  - Safeguard groundwater quality.
  - Prevent negative effects on the lower American River area, Cosumnes River areas area, or other groundwater dependent ecosystems.
  - Prevent negative effects on or from related Folsom Reservoir operations.

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[3] For any CVP water stored in the Water Bank via in-lieu recharge, it is considered functionally delivered CVP water that is put to beneficial use, consistent with CVP water rights and CVP water service contracts. If banked water is later recovered for transfer, that use needs to be consistent with CVP water right place of use and authorized beneficial uses.

[4] In this context, "third party" means an entity that does not have a direct connection with a transaction or agreement (e.g., the Water Bank) but may be affected by it.

Governance – Functional Organization Structure for Water Bank Implementation & Operations

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SACRAMENTO REGIONAL WATER BANK

Governance: Organizational Framework, Functions, and Associated Roles and Responsibilities

Purpose

This paper is one of a series of papers that will introduce and describe the process and considerations related to the implementation of the Sacramento Regional Water Bank (Water Bank). These processes are aspects of Water Bank governance functions.

Background

Governance can be described as "the conceptual model for how an entity is managed, its interactions with and relationship to partners and affiliates, and identification of the operations and systems it oversees." Water Bank governance components include:

- **Vision and Strategy**: Goals, objectives, principles, and constraints
- **Structure**: Organizational framework, functions, and associated roles and responsibilities
- **Operations Support Tools**: Water accounting, monitoring, and reporting
- **Agreements and Finance:** Framework to incentivize water banking

This paper introduces the ***structure*** component of Water Bank governance. It outlines the required functions and activities to support successful implementation of the Water Bank, illustrates a general organizational framework to conduct these functions, and describes the associated rules and possibilities. This paper is intended to:

(1) establish shared understanding and common terminology among the Water Bank Program Committee members and the Water Bank Development Team, and

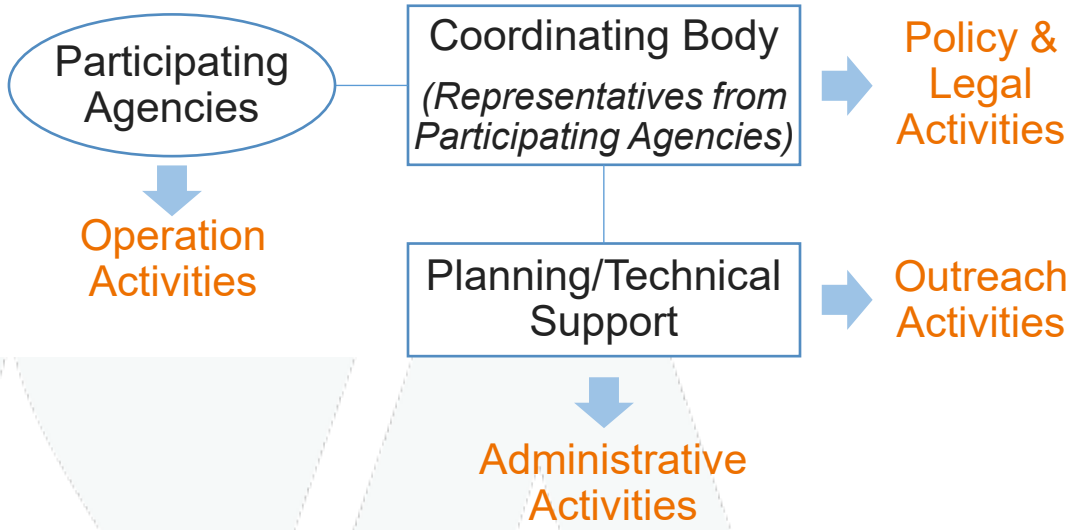
(2) help the Program Committee and the technical team maintain consistency in their ongoing engagements with other entities and stakeholders as part of the Water Bank development process.

This paper reflects the feedback from the Program Committee on the draft *Governance: Roles and Responsibilities White Paper* (dated March 3, 2023). It also reflects additional input and feedback received during the Program Committee meetings on April 6 and April 10, 2023.

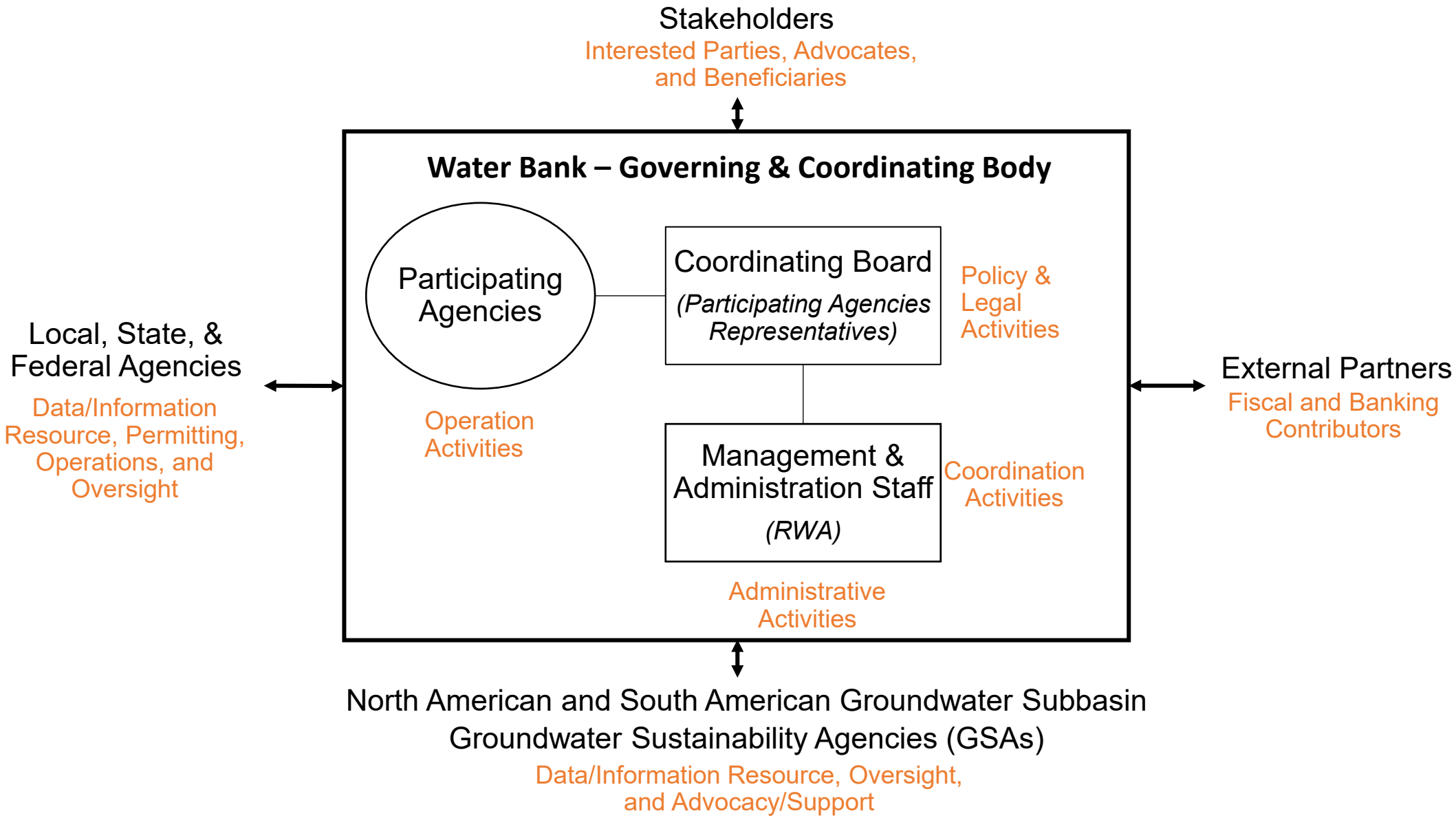
Required Functions and Activities

The required activities to support a successful Water Bank can be grouped into four functional areas: (1) policy and legal activities, (2) operations activities, (3) administrative activities, and (4) outreach activities. Definitions of these required activities is informed by the *Groundwater Banking Guidelines for the Central Valley Project* (U.S. Department of the Interior, Bureau of Reclamation (Reclamation) 2019)(https://www.usbr.gov/mp/waterbanking/index.html), and the *Water Transfers White Paper* (California Department of Water Resources (DWR) and Reclamation 2019) (https://water.ca.gov/Programs/State-Water-Project/Management/Water-Transfers).

Proposed Functional Organization Structure



Governance - Organizational Structure for Water Bank Implementation & Operations

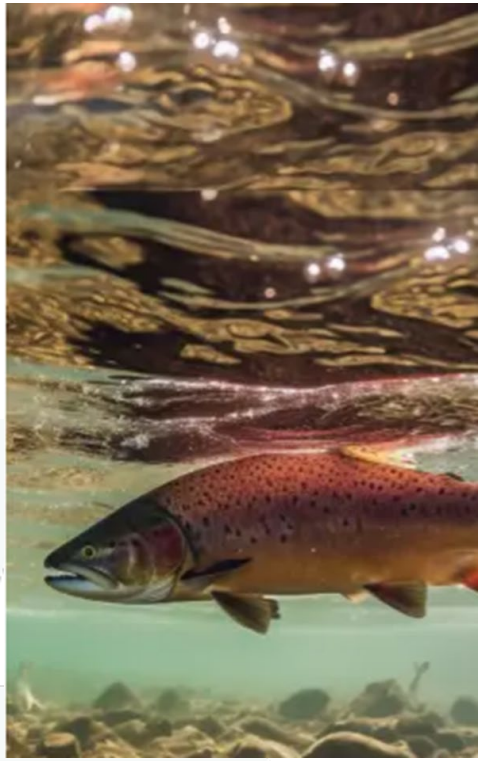


Benefits and Outcomes

- **Water Supply Reliability**
- **Ecosystem/Fish and Wildlife**
- **Water Quality**
- **Economic**

SACRAMENTO REGIONAL WATER BANK

A Sustainable Storage and Recovery Program

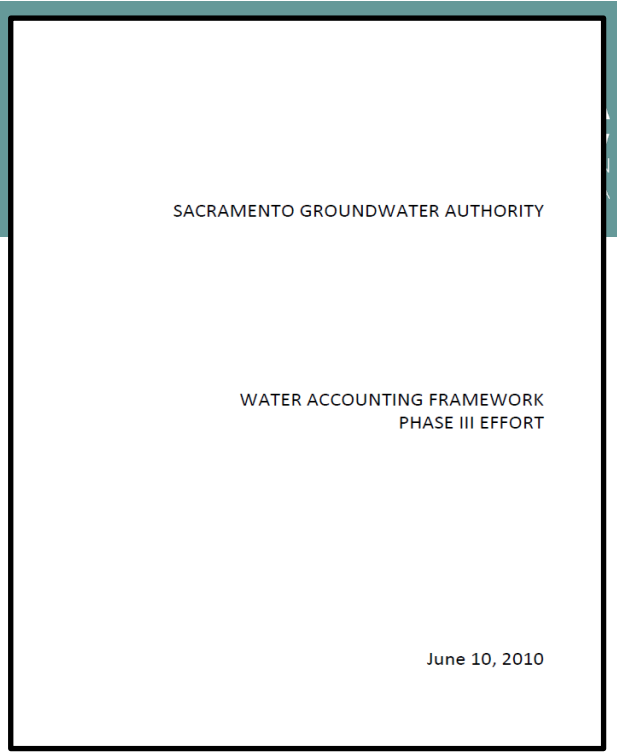


ECOS & Water Forum Meeting

Water Accounting System

Water Accounting Framework (WAF) vs Water Accounting System (WAS)

	WAF	WAS
Established	2010, tracking started 2012 and continues	2025 and beyond
Purpose	SGA member agencies voluntary actions for long-term sustainability of GW resources	To properly manage participants agencies sustainable storage and recovery of banked water
Managed By	SGA	RWA
Area	Central Unit of SGA only	North and South American Subbasins
Number of Accounts	1	At least 3
Number of Participants	8	Unknown, perhaps 20 or more
Sustainability Target	Voluntary, 90,000 acre feet per year	Defined by SGMA - NASb and SASb Groundwater Sustainability Plans (GSPs)
Leave Behind	None – However a 5% mitigation factor is applied if banked for agencies outside the area	No less than 5% for out of basin transfer
Baseline	surface water deliveries in excess of baseline levels (1993-1997) during the period 1998 through 2011 credited with exchangeable water	TBD


SACRAMENTO GROUNDWATER AUTHORITY

WATER ACCOUNTING FRAMEWORK
PHASE III EFFORT

June 10, 2010

Sacramento Regional Water Bank

"A sustainable storage and recovery system"

American Basin (CVP account)

"A federally recognized water bank"

Sierra Nevada (non CVP account)

"Expansion of the regions conjunctive use and water banking investments"

Harvest Water

"Reliable recycled water for regional sustainability"

Operating Multiple Accounts in the SRWB

Regional Water Authority
BUILDING ALLIANCES IN NORTHERN CALIFORNIA

Sacramento Regional Water Bank

"A sustainable storage and recovery system"

American Basin (CVP account)

"A federally recognized water bank"

Sierra Nevada (non CVP account)

"Expansion of the regions conjunctive use and water banking investments"

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"Reliable recycled water for regional sustainability"

Future Water Accounts

(i.e. Agriculture, owner operated, etc)

WAS Topics for Upcoming PC Meetings (next 6 months)

Regional Water Authority
BUILDING ALLIANCES IN NORTHERN CALIFORNIA

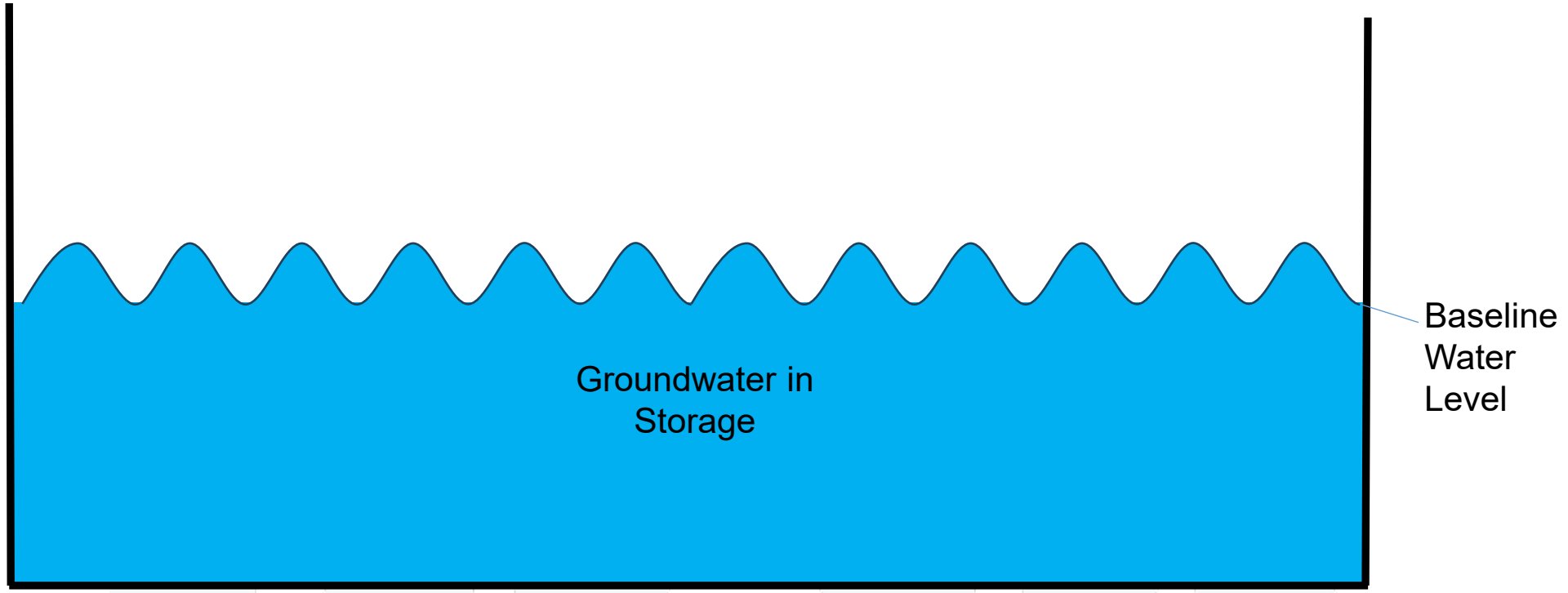
2023		2024			
Oct	Nov	Dec	Jan	Feb	Mar
PC Meeting – WAS Module #1 • Recap • Concepts • Overview: Elements and Process • Schedule	**PC Meeting – WAS Module #2** • Functional Element 1: Accounting Rules • Functional Element 2: Data Collection, Management, Transparency, and Reporting	**No PC Meeting** **Stakeholder Forum #3**	**PC Meeting – WAS Module #3** • Functional Element 3: Adaptive Management • Functional Element 4: Administration • Initial Evaluation of Accounting Components (Functional Element 1): – Basin "Leave Behind" – Basin Losses	**PC Meeting – WAS Module #4** • Initial Evaluation of Accounting Components (Functional Element 1): – Baseline Conditions – In-Basin and Out-of-Basin Transfers – Banked Water	**PC Meeting – WAS Module #5** • Development of: – Data Collection, Management, Transparency, and Reporting (Functional Element 2) – Adaptive Management (Functional Element 3) – Administration (Functional Element 4) • Framing the Tracker Tool

Coordination with overlying GSAs, potential participants, other interested parties

Proposed Schedule – Subject to Change

Water Accounting Concept – Existing Groundwater and Banked Surface Water

Regional Water Authority
BUILDING ALLIANCES IN NORTHERN CALIFORNIA



Key

Existing Groundwater in Storage (Conditions Absent the Water Bank)

Water Accounting Concept - Existing Groundwater and Banked Surface Water (cont.)

Regional Water Authority
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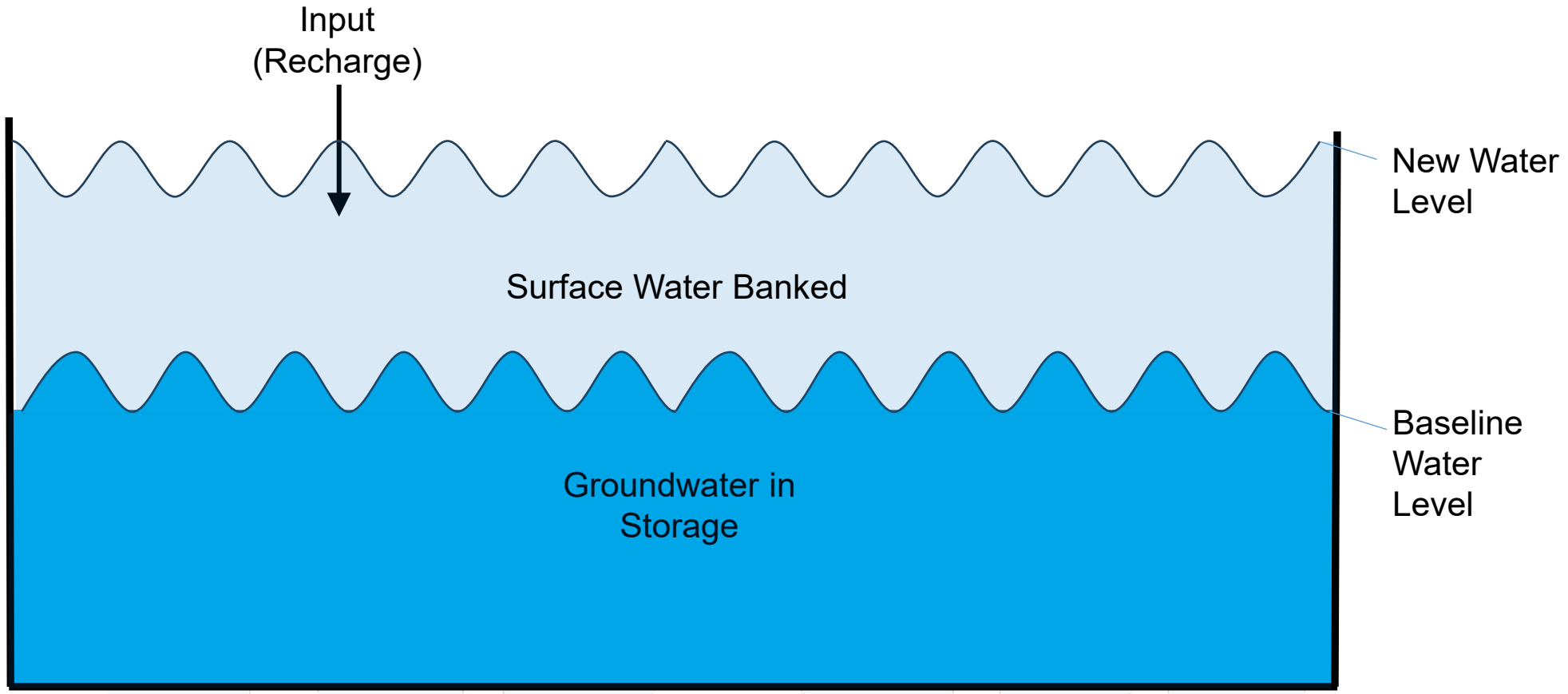

Key

Existing Groundwater in Storage (Conditions Absent the Water Bank)

Surface Water Banked (Water Accounting System tracked and managed supply)

Water Accounting Concept - Existing Groundwater and Banked Surface Water (cont.)

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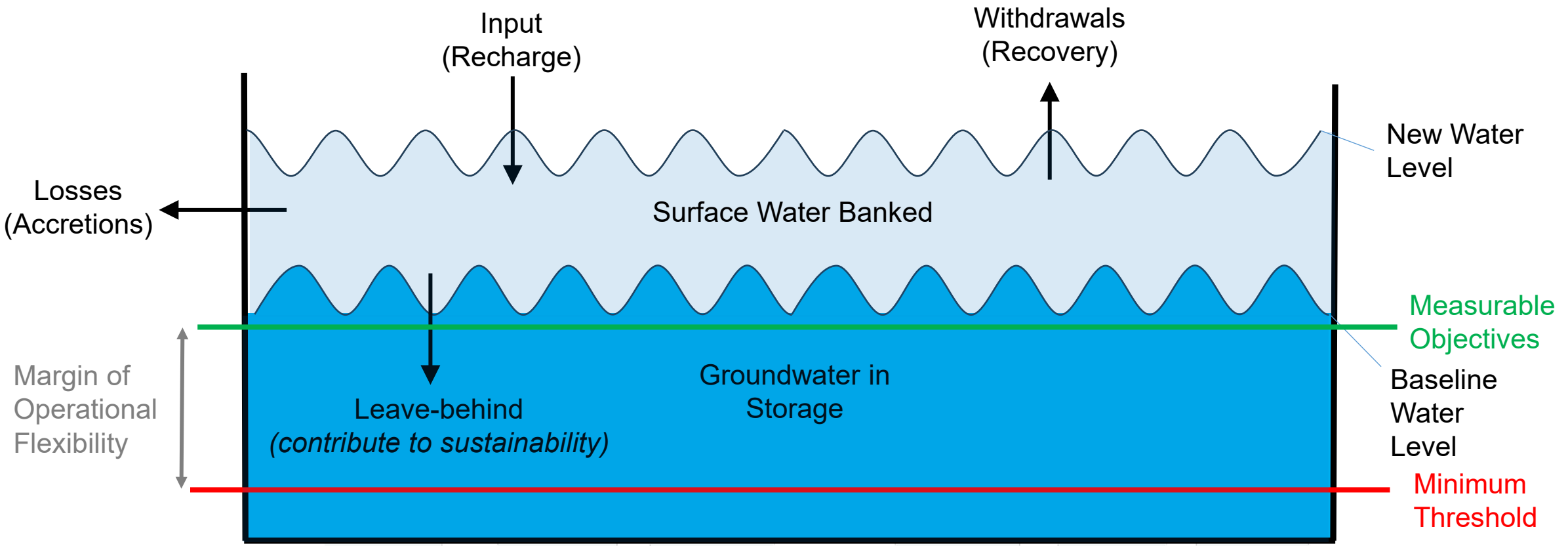

Key

Existing Groundwater in Storage (Conditions Absent the Water Bank)

Surface Water Banked (Water Accounting System tracked and managed supply)

Framework for Multiple Banking Programs

Regional Water Authority
BUILDING ALLIANCES IN NORTHERN CALIFORNIA

Sacramento Regional Water Bank

Consistent Procedures & Protocols	Bank/Program Specific						
Accounting of banked water, monitoring of groundwater levels & storage, conflict resolution, reporting, etc.	Goals & Objectives	Geographic Location	Recharge Sources	Participating Members	Banked Water Uses/ Beneficiaries	Transfer Water used to Return Banked Water	Compliance Requirements (& Baseline)
Federally Recognized Bank		NASB/SASB (CU area)	CVP Water 3(f) water	M&I purveyors		CVP Water Water rights	
M&I Conjunctive Use & Banking Program(s)		NASB/SASB (CU area)	All waters	M&I purveyors		All waters	
Harvest Water		SASB (south of Elk Grove)	Recycled water	Sac Regional south county Ag		Recycled water	
FloodMAR							
OHWD Recharge Program							

Banked Water Uses/ Beneficiaries: ecosystem, local water reliability, statewide water reliability, groundwater sustainability, CVP operational flexibility