

2027 Indio Subbasin Alternative Plan Update

Community Workshop #3

September 17, 2026

Indio Subbasin GSAs

*Coachella Valley Water District
Coachella Water Authority
Desert Water Agency
City of Indio*



Meeting Agenda



Introductions/Overview



Groundwater Model Update



Projects and Management Actions



Plan Implementation

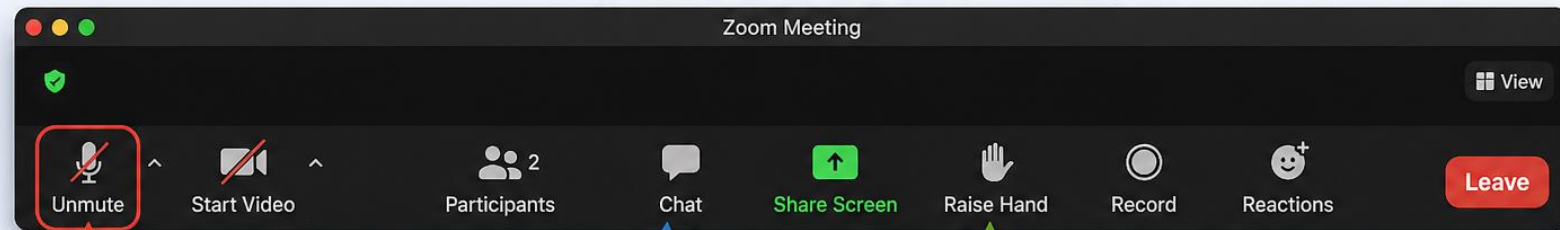


Public Comment

Welcome to the Indio Community Workshop #3!

Zoom Meeting Housekeeping

Thank you for joining! Please review the tips below to help us have a productive and respectful meeting.



MICROPHONE

Kindly mute yourself when others are speaking.

Click the microphone icon to mute/unmute yourself.



CHAT

Please use the Chat to ask questions or share comments.

Click the Chat icon to open the chat window.



RAISE HAND

Please use the Raise Hand feature if you would like to speak.

Click Raise Hand and the host will call on you.

ADDITIONAL TIPS



Keep your video on when possible.



Please be respectful of others and their time.



We appreciate your participation!

Thank you!

Introductions/Overview



Alternative Plan Update Team

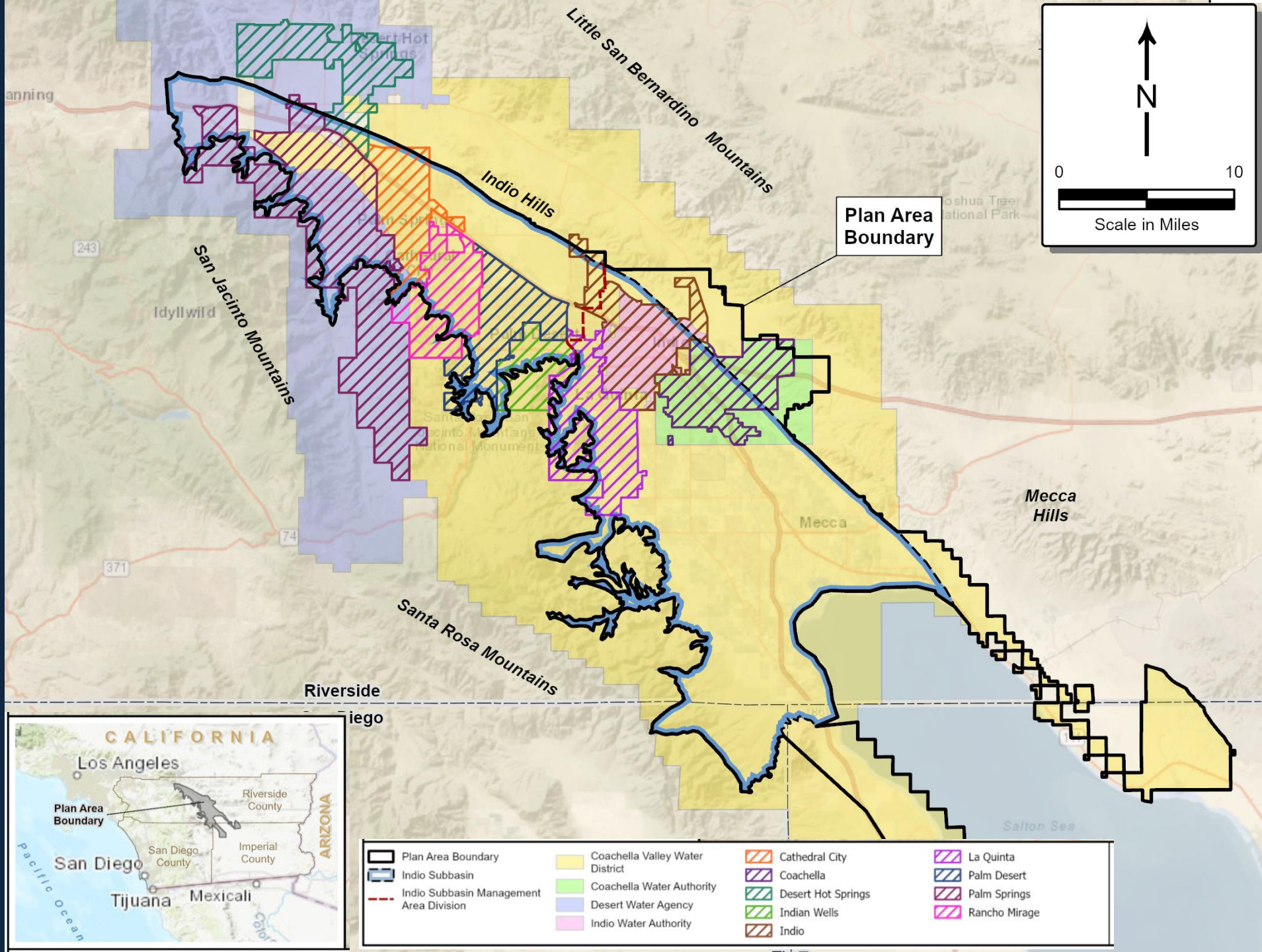
Indio Subbasin Groundwater Sustainability Agencies (GSAs)

- Coachella Valley Water District (CVWD)
- Coachella Water Authority (CWA)
- Desert Water Agency (DWA)
- City of Indio



Indio Subbasin Consultant Team

- Todd Groundwater
- Rincon Consultants, Inc.



Poll Question #1:

Have you attended any previous Indio Subbasin Public Workshops?

- *Yes*
- *No*

Groundwater Model Update



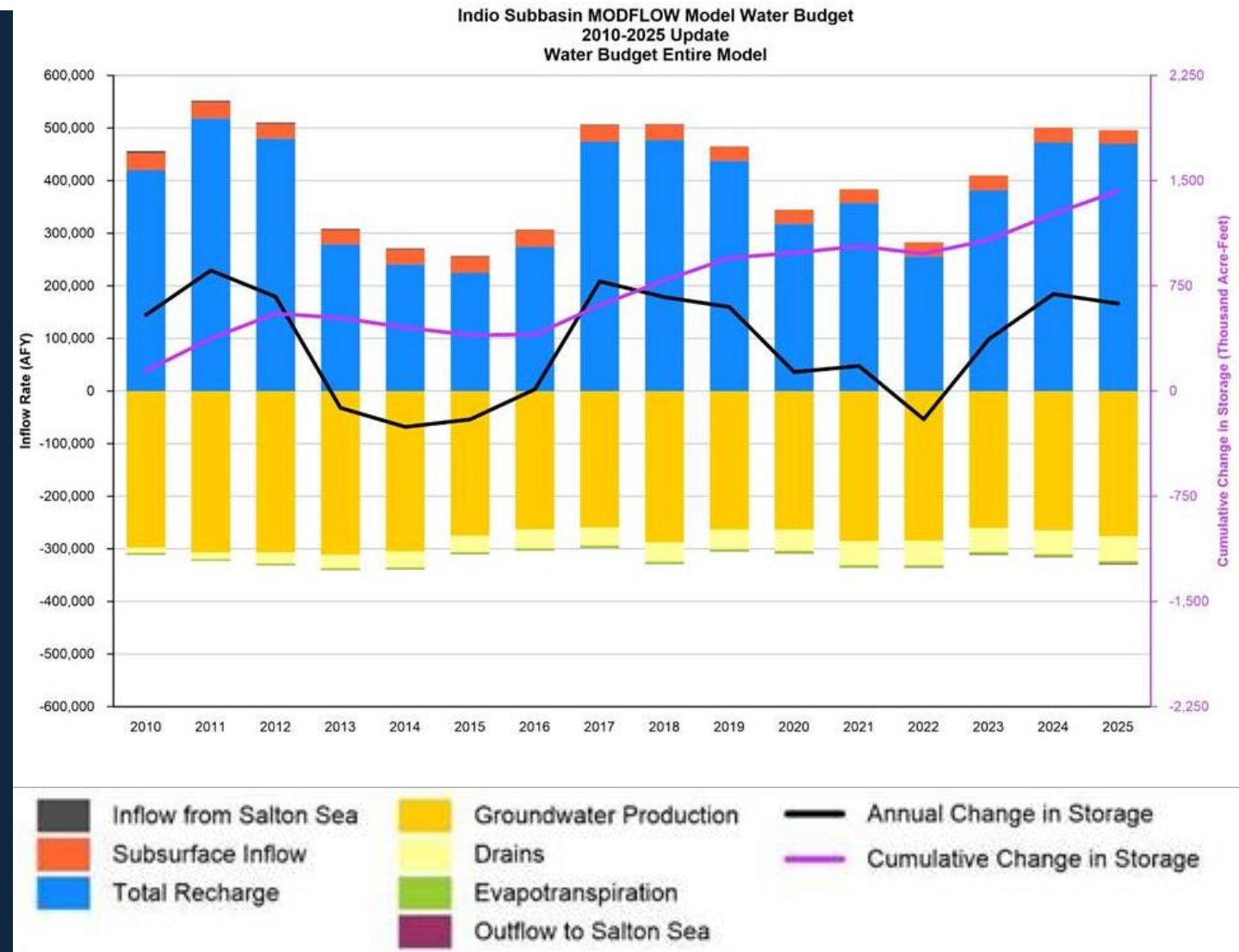
Poll Question #2:

What groundwater information is most valuable to you?

- *Groundwater Levels*
- *Groundwater Quality*
- *Water Supply Reliability*
- *Future Conditions*
- *Other*

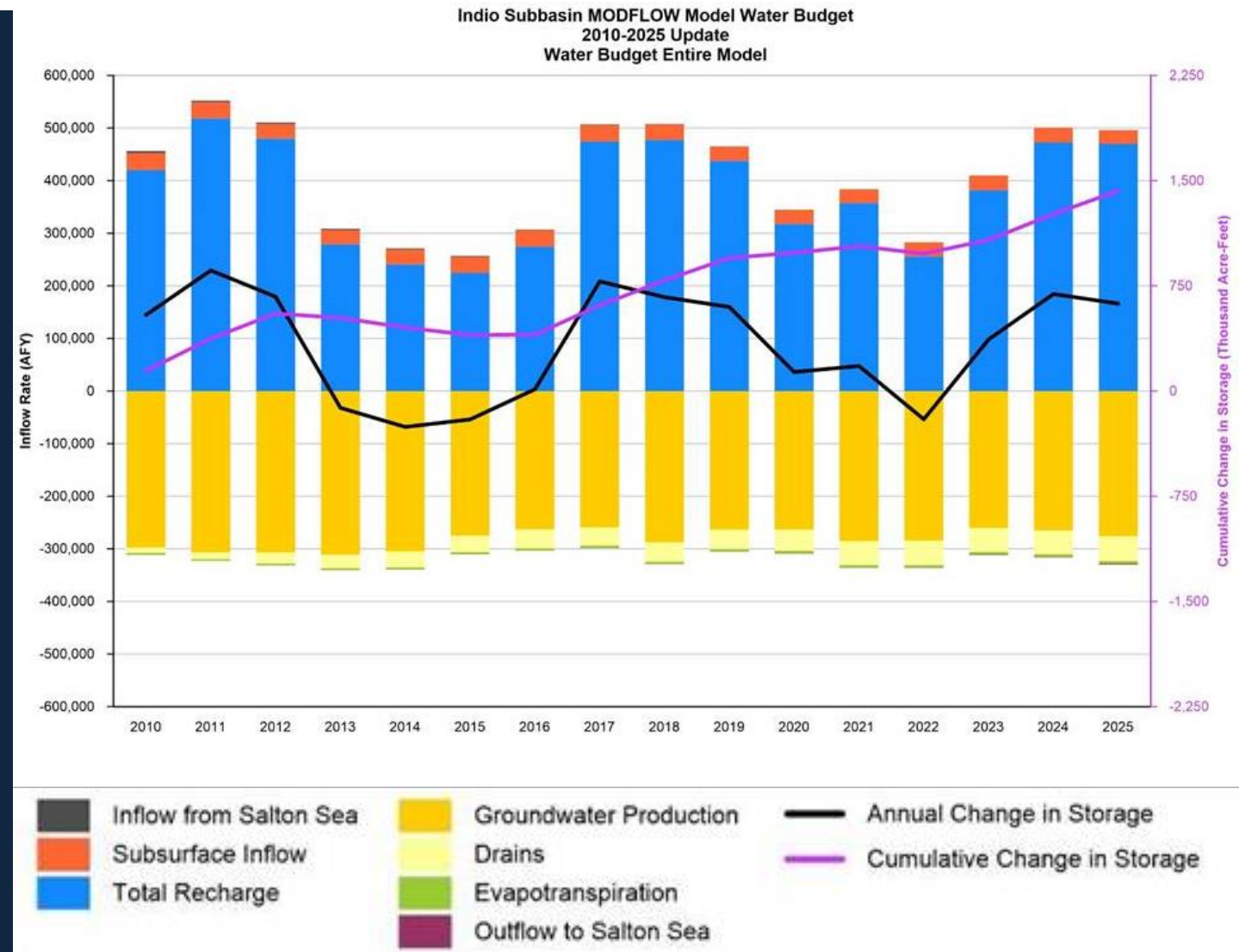
Historical Model

- Simulates 2010-2025
- Based on observed conditions
- Improvements from 2022 model
 - San Geronio boundary updated
 - Quarterly stress periods
 - Recalibration
 - Well pumping intervals
 - Updated solver



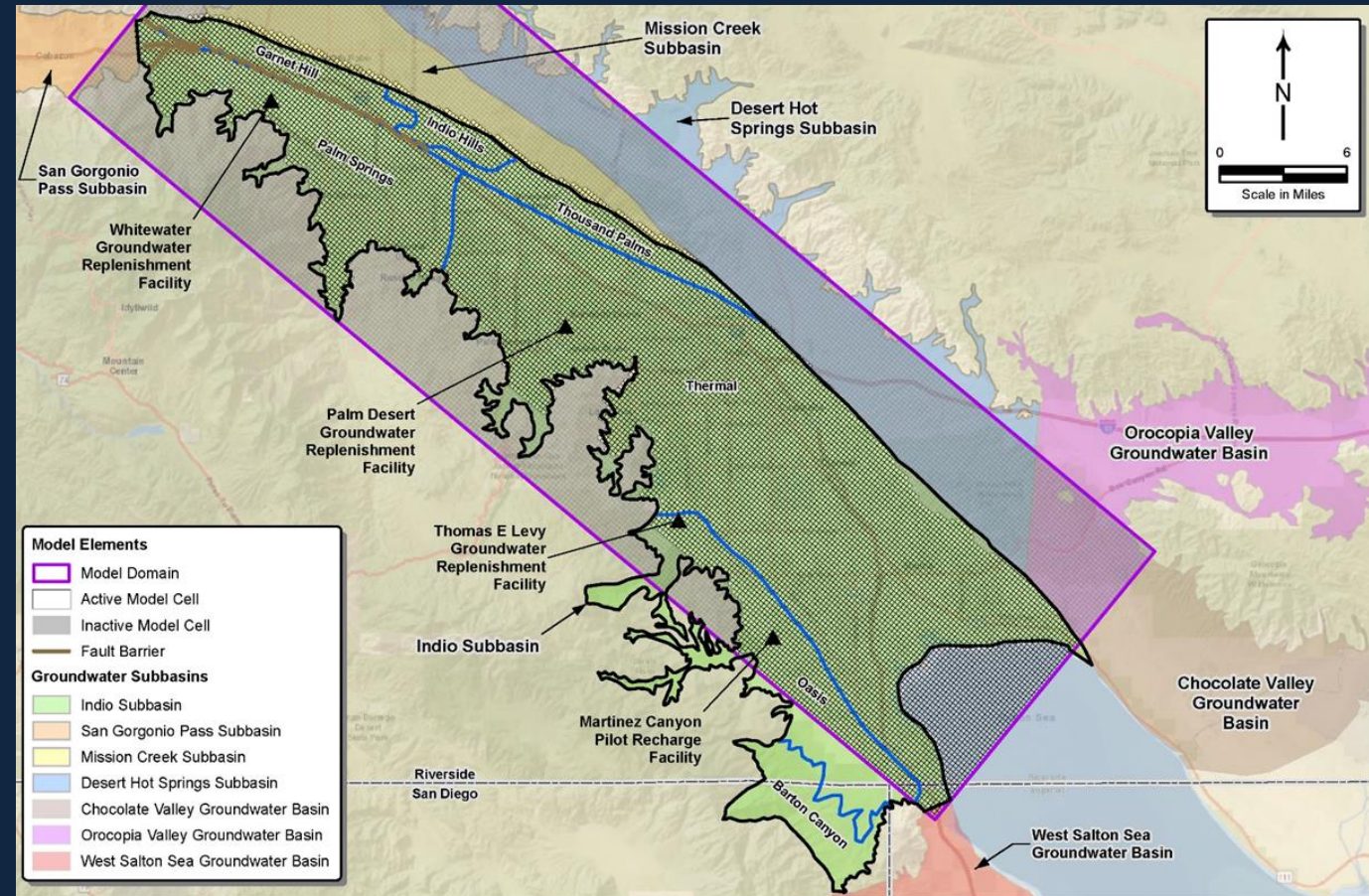
Historical Model Results

- Model simulates groundwater across the basin and outputs
 - Water levels
 - Water budgets
- Graph shows the model water budget for the historical period
- The basin has experienced a range of hydrological years, but continues to increase cumulative storage



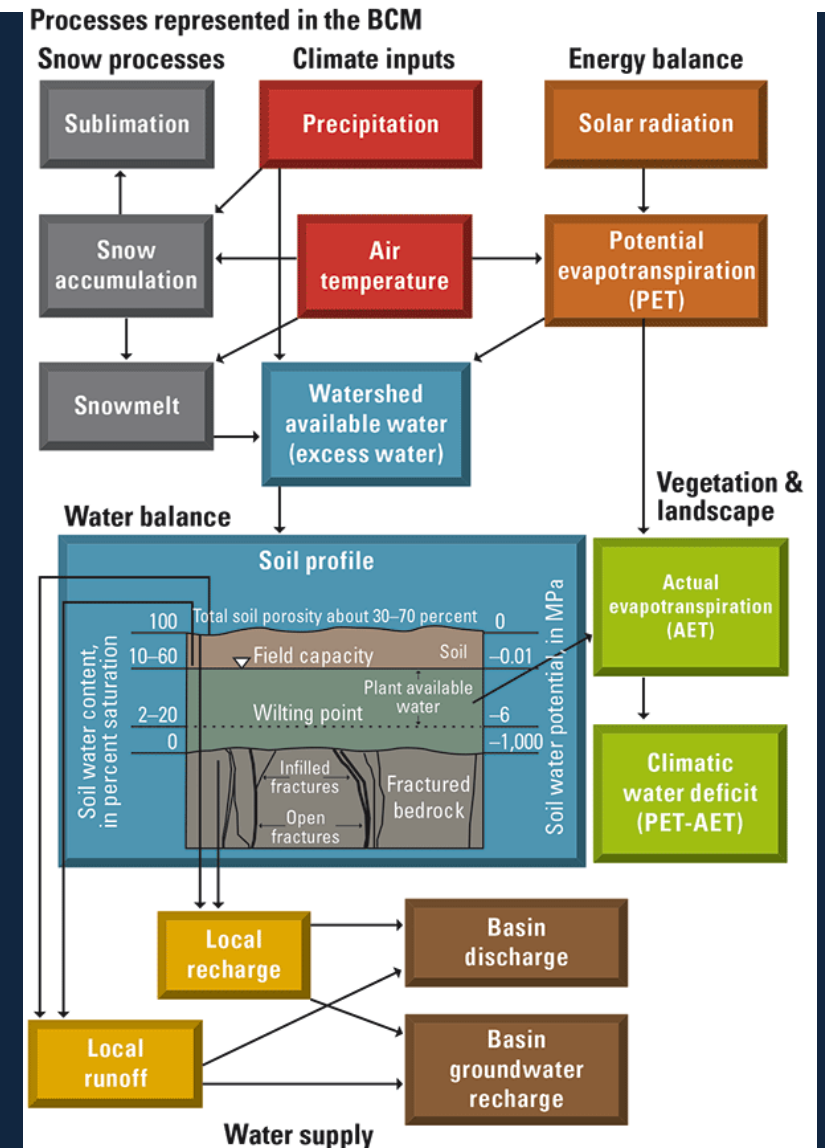
Future Scenarios

- Based on the historical model
- Simulates 2026-2085
- Projects future water demand
 - Through 2050
- Simulates future projects
 - Recharge, non-potable water
- Forecasts future water supply
 - Incorporates latest climate change modeling for local watersheds and imported water



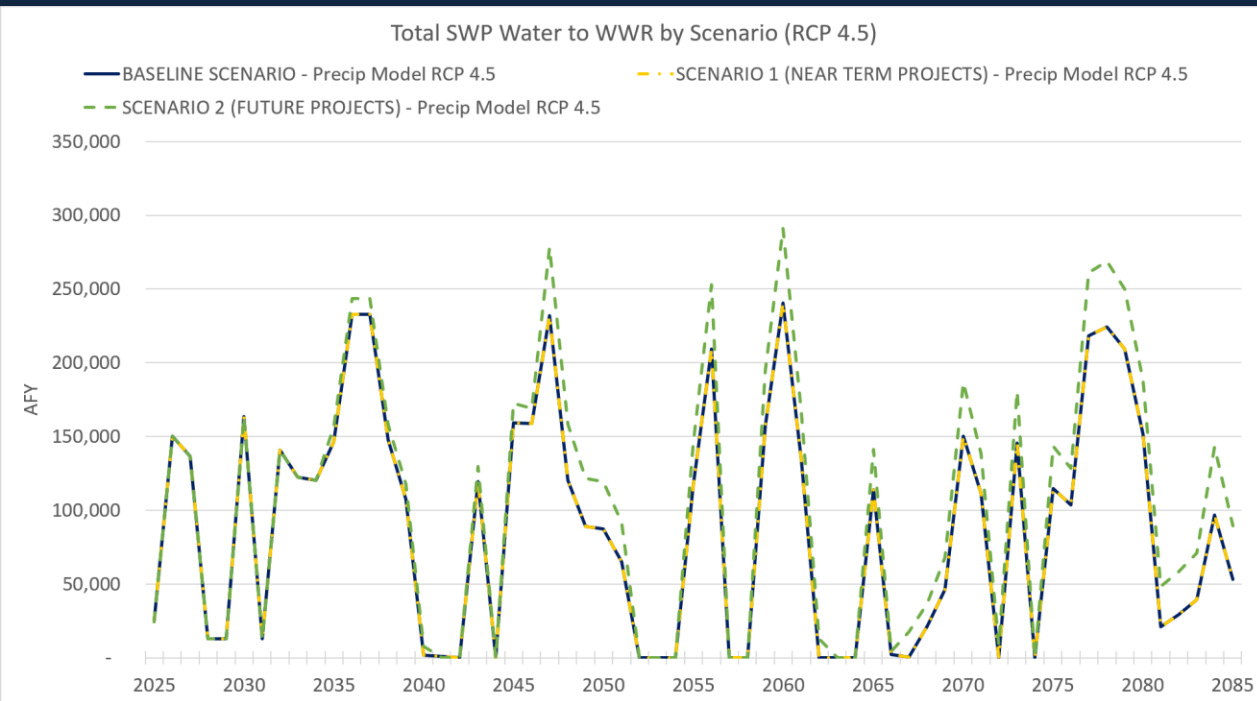
Climate Change

- Forecasts Representative Concentration Pathways (RCP) for GHG emissions:
 - RCP 4.5 = moderate scenario, GHGs peak in 2040 and then decline
 - RCP 8.5 = high emissions scenario, GHGs continue to rise through 2100
- USGS Basin Characterization Model (BCM):
 - A grid-based hydrologic model that estimates water balance, recharge, and streamflow across landscapes using climate, soil, and topographic data

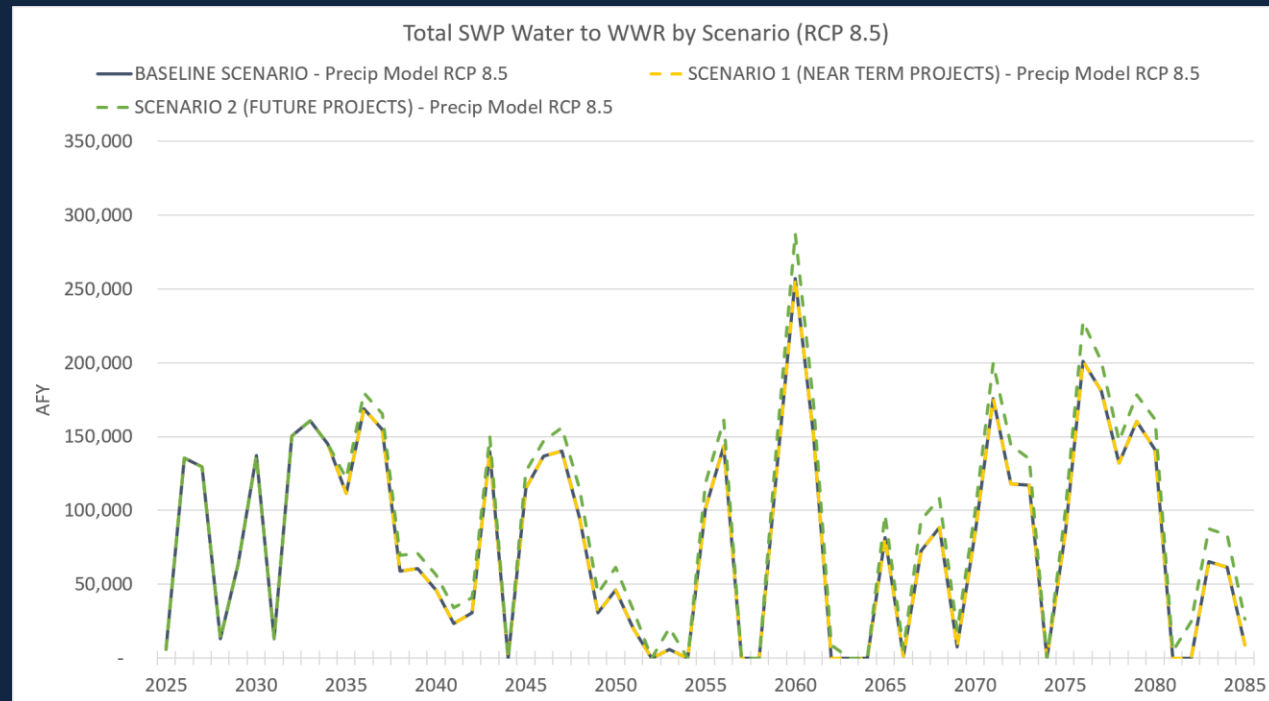


Total SWP Deliveries to WWR-GRF

RCP 4.5 – Moderate, Warm/Wet

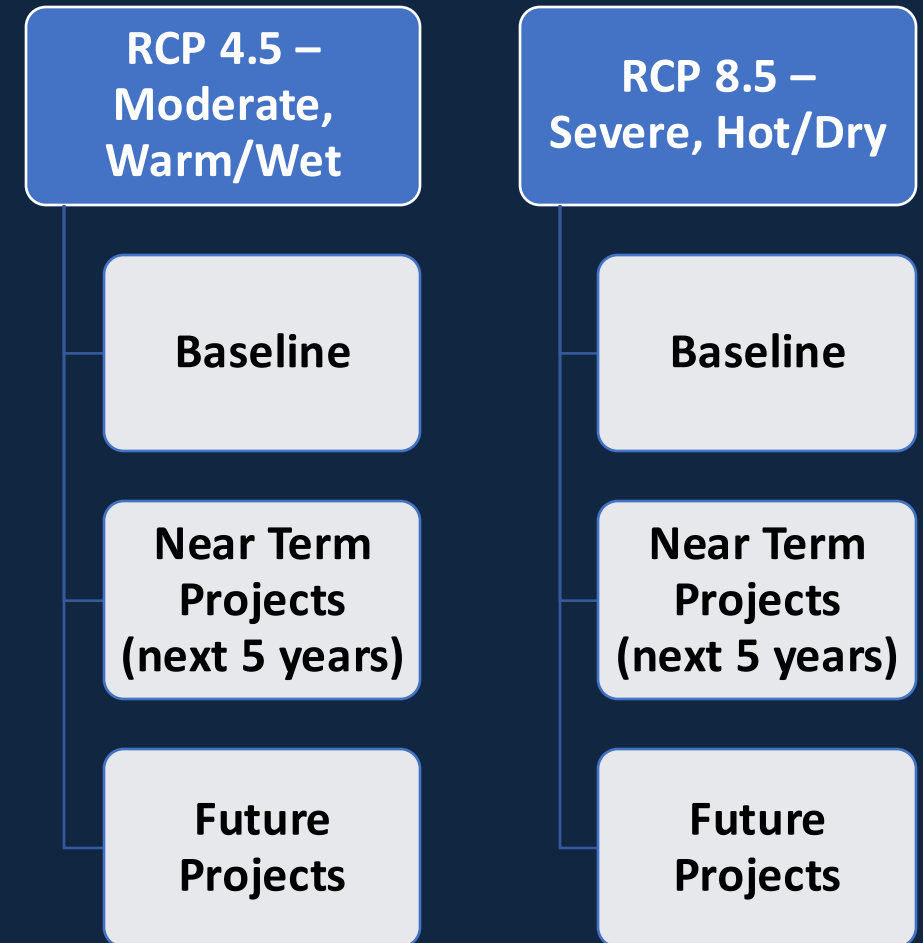


RCP 8.5 – Severe, Hot/Dry



Scenarios

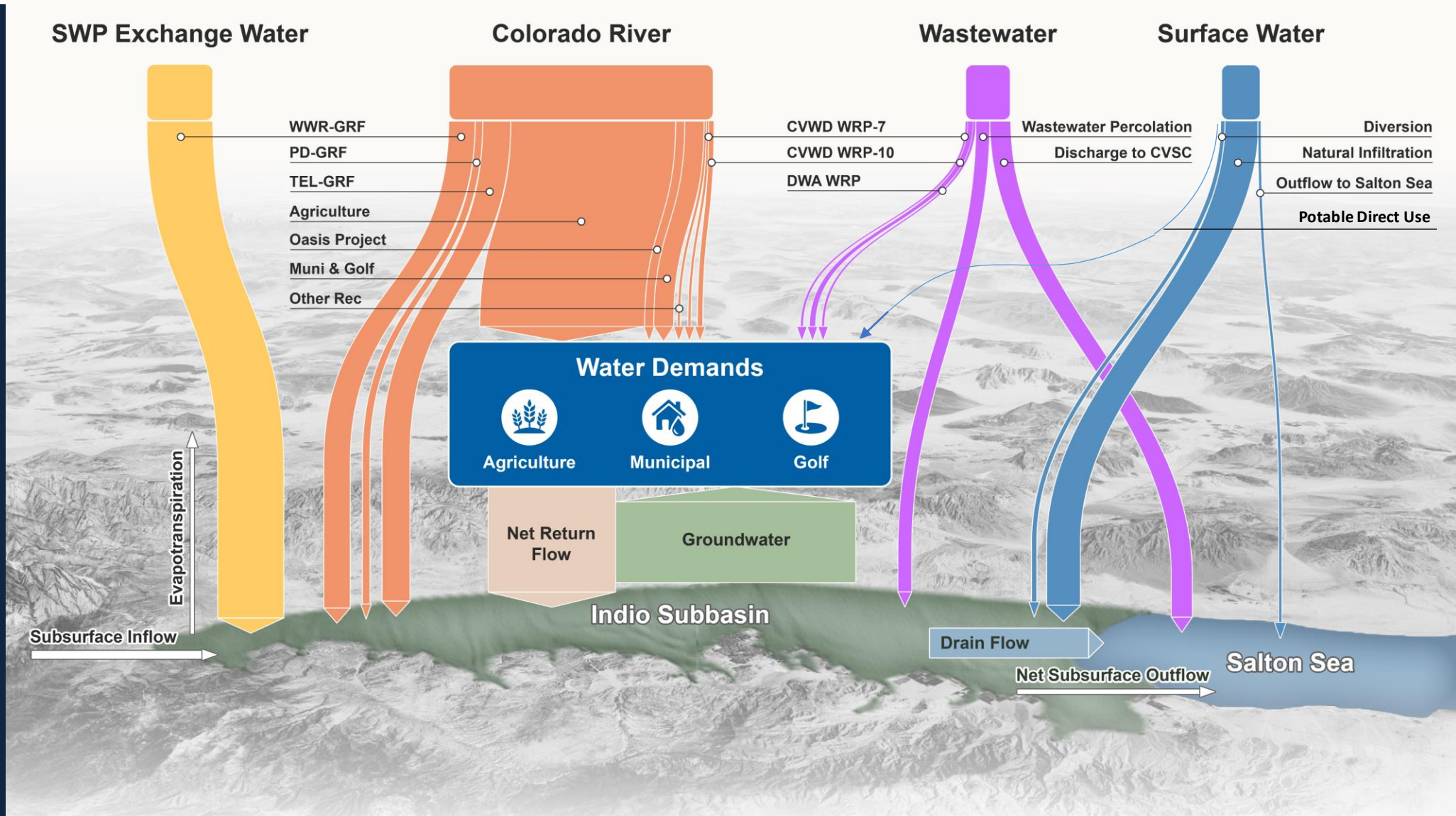
- Six total future scenarios
 - Two different climate model projections
 - Three different sets of implemented projects
- Climate models provide a range of conditions
 - Preliminary results show that the RCP 4.5 recharge is greater than historical averages
 - RCP 8.5 show more periods of decreased recharge, but still sustainable



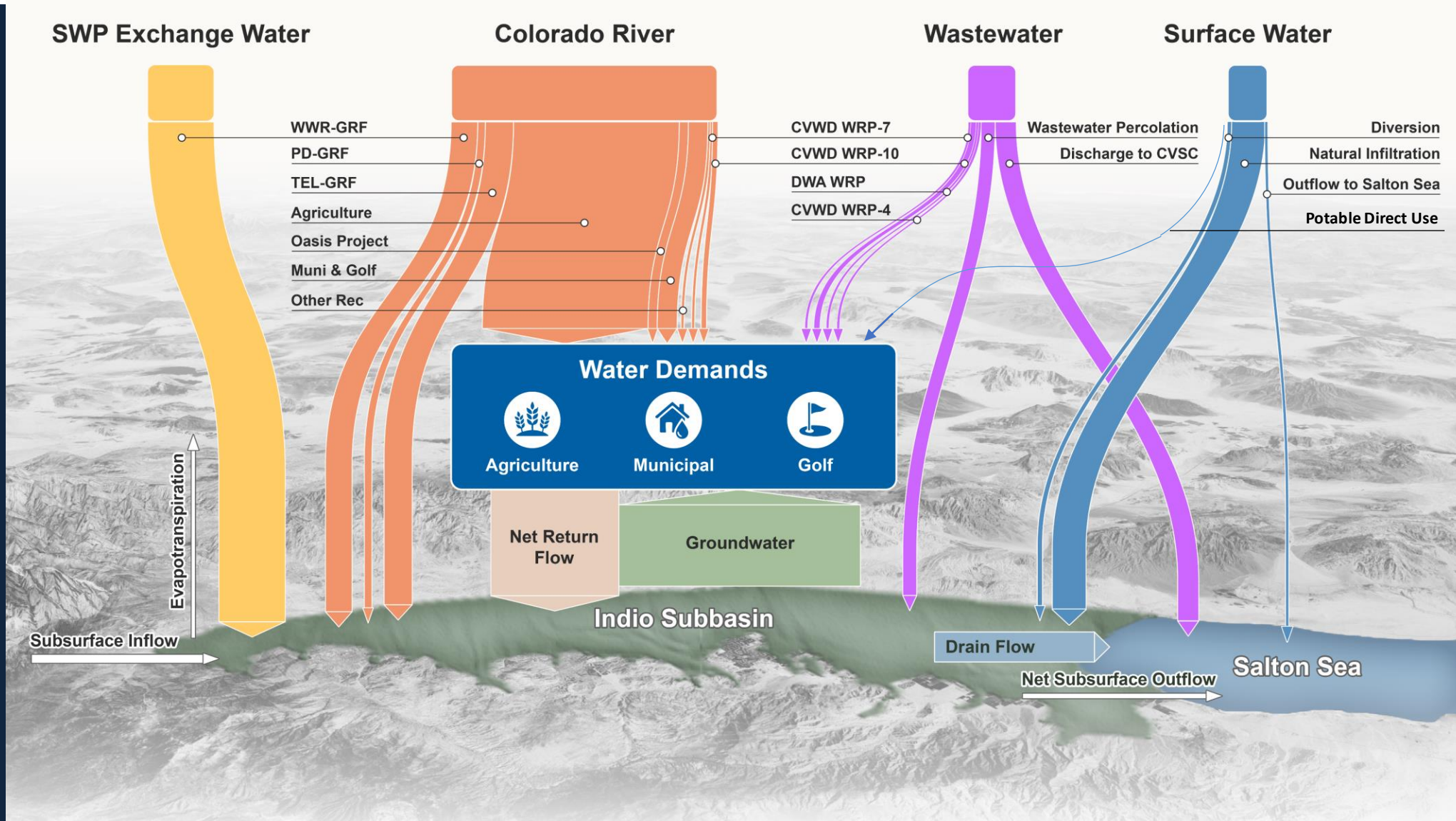
Scenarios

Baseline Scenario	Near Term Projects Scenario	Future Projects Scenario
Demand forecast-based groundwater pumping	Baseline + Projects Through 2030	Near-Term + All Projects
BCM-based watershed runoff	PD-GRF Phase II Expansion (15,000 AFY)	Sites Reservoir (online 2035)
Existing SWP Table A + Yuba Accord supplies, with BCM based variability	WRP-7 and WRP-10 delivery projects, plus WRP-4 Phase I (1 MGD)	Delta Conveyance Project (online 2047)
Existing Colorado River supplies and transfers	Canal delivery projects to Oasis Project and East Valley Golf	EVRA Phase I (1 MGD)
Existing WRP and Canal deliveries		WRP-10 delivery buildout
		Regional WRF flow routed north to MCSB

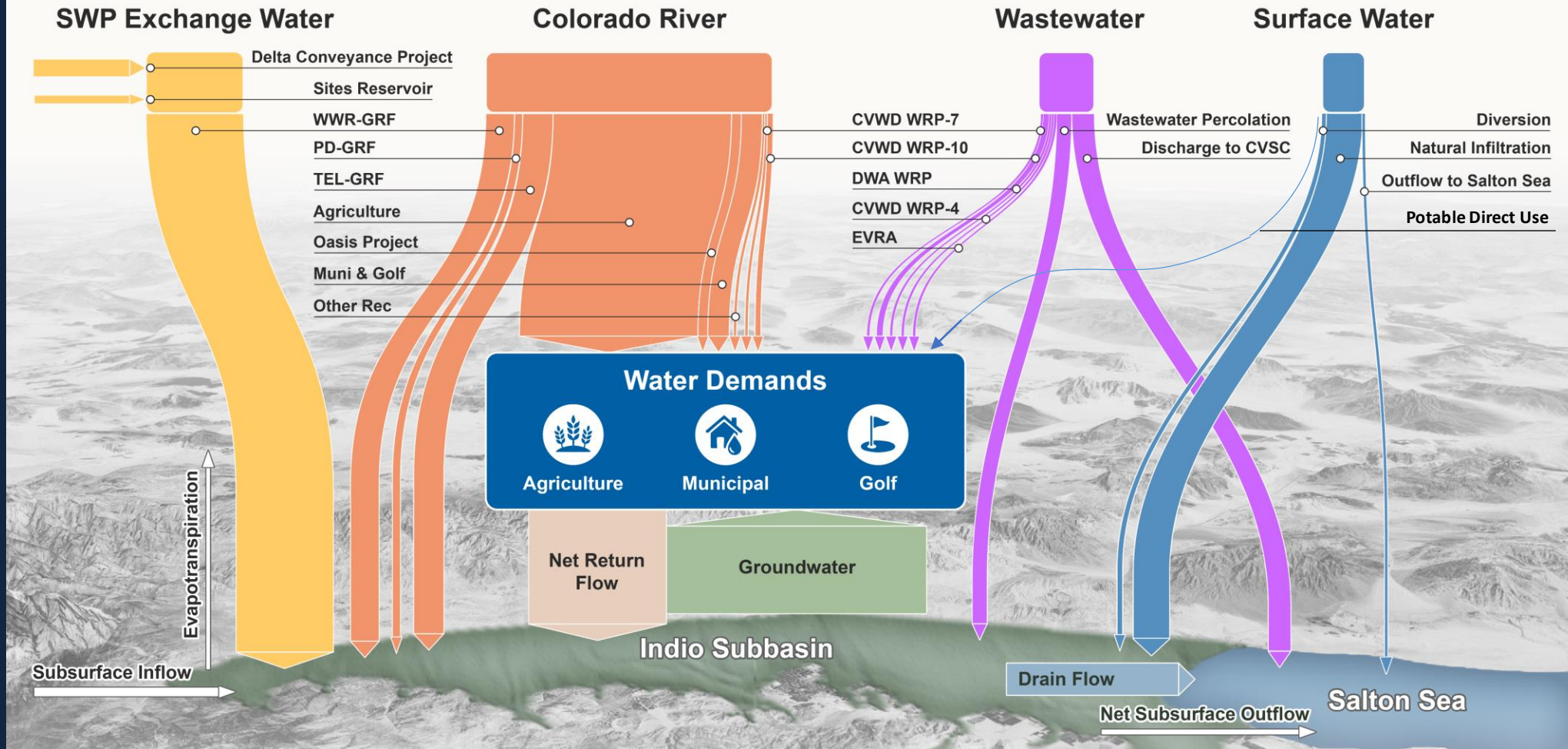
Baseline Scenario



Near Term Projects Scenario



Future Projects Scenario

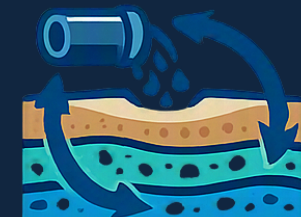


Projects and Management Actions



What is a PMA?

- **Projects and Management Actions (PMAs)** are the programs, policies, infrastructure projects, and management strategies used by the GSAs to maintain groundwater sustainability
- PMAs help the Indio Subbasin:
 - Reduce groundwater demand and pumping
 - Develop and use alternative water supplies
 - Replenish groundwater
 - Protect groundwater quality
 - Respond to changing water supply and demand conditions
 - Avoid significant and unreasonable undesirable results



Projects and Management Actions

Water Conservation

- PMA 1: Urban Water Conservation
- PMA 2: Turf Irrigation Reduction
- PMA 3: Golf Water Conservation
- PMA 4: Agricultural Water Conservation

Water Supply Development

- PMA 5: Increased Surface Water Diversion
- PMA 6: Delta Conveyance Facility
- PMA 7: Sites Reservoir
- PMA 8: Future Supplemental Water Acquisitions

Source Substitution & Replenishment

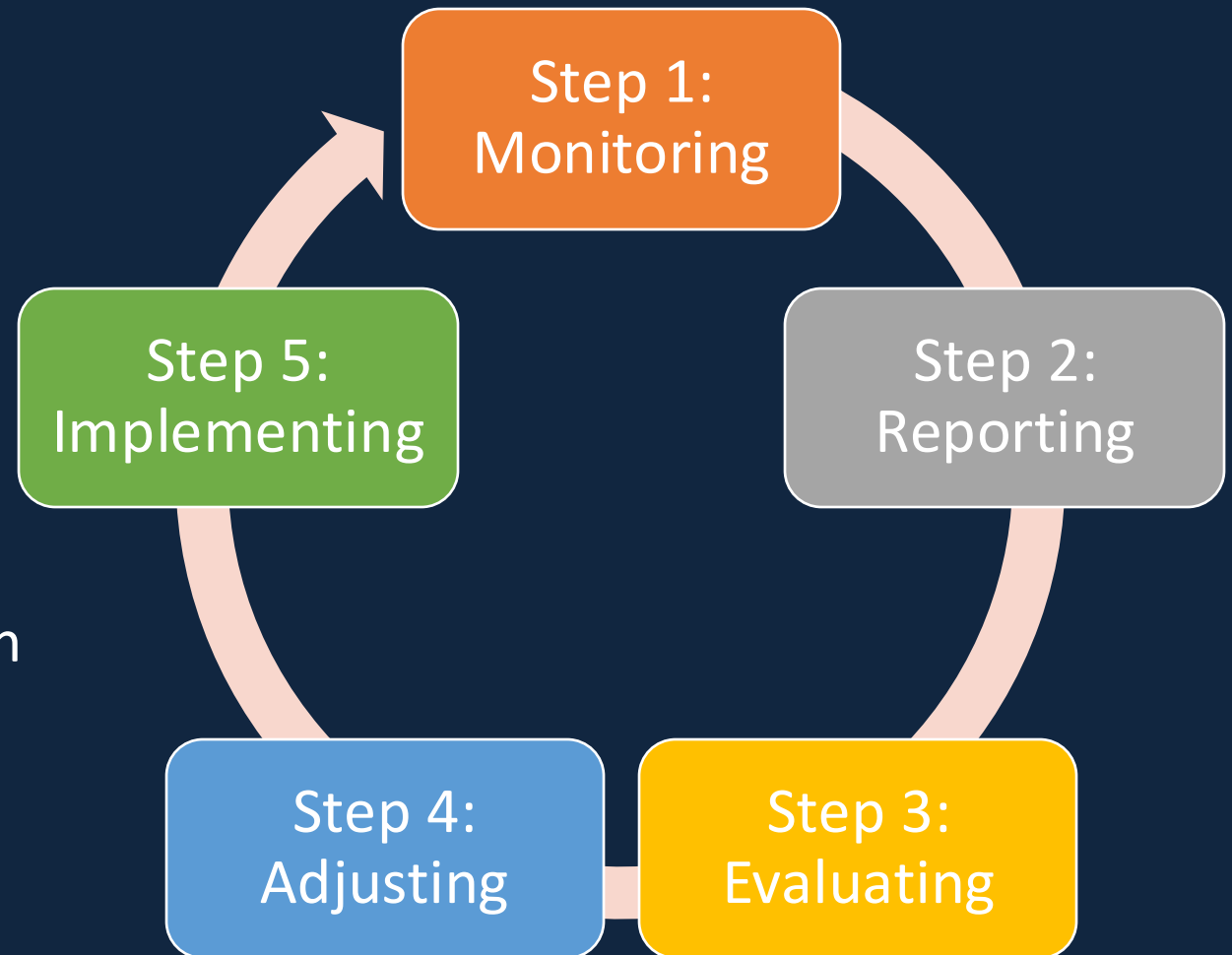
- PMA 9: Mid-Valley Pipeline Direct Customers
- PMA 10: East Golf Expansion
- PMA 11: Oasis Distribution System
- PMA 12: WRP-10 Recycled Water Delivery
- PMA 13: WRP-7 Tertiary Expansion
- PMA 14: Canal Water Pump Station Upgrade
- PMA 15: WRP-7 Recycled Water Delivery
- PMA 16: WRP-4 Tertiary Expansion and Delivery
- PMA 17: DWA WRP Recycled Water Delivery
- PMA 18: EVRA Recycled Water Delivery
- PMA 19: PD-GRF Phase 2 Expansion
- PMA 20: WWR-GRF Operation

Water Quality Protection

- PMA 21: Eliminate Wastewater Percolation
- PMA 22: Wellhead Treatment
- PMA 23: Small Water System Consolidations
- PMA 24: Septic to Sewer Conversions
- PMA 25: Implement CV- SNMP Groundwater Monitoring Program Workplan
- PMA 26: Implement CV- SNMP Development Workplan
- PMA 27: Colorado River Salinity Forum
- PMA 28: Source Water Protection

Adaptive Management Approach

- PMAs will be selected, timed, and adjusted as conditions change
- The approach responds to uncertainty in:
 - Future water demand
 - Imported water reliability
 - Climate conditions
 - Recycled water availability
 - Project funding and implementation schedules
- Annual reports and five-year updates will guide future PMA decisions



Water Conservation

- Conservation remains a foundational strategy for reducing groundwater demand
- Key programs include:
 - Rebates, water budgets, audits, and leak detection
 - Turf conversion and non-functional turf requirements
 - Golf course water conservation
 - Agricultural efficiency programs
 - Regional education through CV Water Counts
- Current identified conservation programs provide an **estimated 20.6 million gallons of annual water savings**

CHANGES TO THE TURF REBATE PROGRAM EFFECTIVE SEPTEMBER 1, 2023



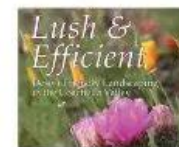
Residential customers that plant one (1) new native tree for every 250 SF of turf removed will get **\$3 per SF** (up to a maximum of 10,000 SF).



Residential customers that do not plant a native tree as part of the turf removal project will get **\$2 per SF** (up to a maximum of 10,000 SF).



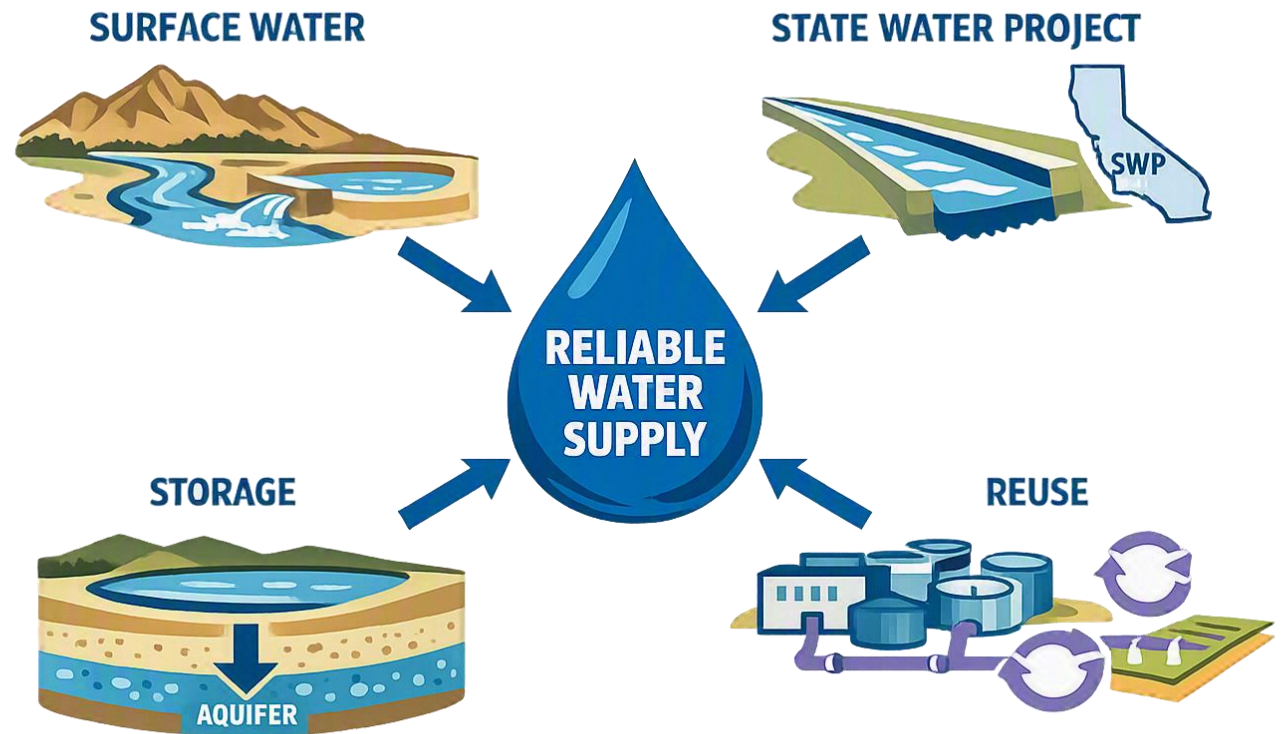
Artificial turf will no longer be a reimbursable expense. Customers may still replace turf with artificial turf but this expense will not be covered by the rebate program.



Acceptable native/desert-tolerant plants and trees for project are listed in the Lush and Efficient Landscape Guide posted online.

Water Supply Development

- The GSAs are pursuing additional and more reliable water supplies through:
 - Increased local surface water diversions
 - Delta Conveyance Project participation
 - Sites Reservoir participation
 - Supplemental water acquisitions
 - Potable and non-potable reuse



Source Substitution and Groundwater Replenishment

- Source substitution replaces groundwater pumping with Canal water or recycled water
- Major projects include:
 - Oasis distribution system
 - East golf expansion
 - WRP-7, WRP-10, and WRP-4 recycled water projects
 - DWA recycled water deliveries



CVWD is planning to connect 29 additional customers to the WRP-10 recycled water distribution system.



The Oasis Distribution System would further expand the Canal water delivery system to the Oasis Area.

Water Quality Protection and Implementation

- Water quality projects focus on:
 - Reducing wastewater percolation
 - Wellhead treatment
 - Small water system consolidations
 - Septic-to-sewer conversions
 - Salt and nutrient monitoring and management
 - Source water and abandoned well protection
- Deferred projects are retained for adaptive management if future conditions or feasibility change



CVWD Water Quality Sample Collection

Poll Question #3:

Which type of groundwater management project would you most like to see prioritized?

- *Water conservation programs*
- *Groundwater recharge projects*
- *Water supply reliability projects*
- *Water quality improvement projects*
- *A balanced mix of these efforts*

Plan Implementation



Feasibility of Implementation

- 2027 Alternative Plan Update helps evaluate if GSAs can meet future water demands while maintaining groundwater sustainability
- Forecast considers uncertainty in future demands, climate change, water-supply reliability, and regulatory conditions
- Modeling indicates the Indio Subbasin can remain balanced and increase groundwater storage under the with-project scenarios

GSA Priorities

- Fully use available Colorado River supplies.
- Improve long-term reliability of State Water Project supplies.
- Expand recycled water and non-potable water use.
- Continue source substitution and groundwater replenishment.
- Increase water-use efficiency across all sectors.
- Address salt and nutrient management through the CV-SNMP.

Monitoring, Reporting, and Engagement

- **Monitoring** covers groundwater levels, production, water quality, subsidence, climate, streamflow, drain flow, and saline-water intrusion.
- **Data** are used to identify trends, evaluate sustainability criteria, and adaptively manage the basin.
- **Annual Reports** document basin conditions and progress.
- Tribal **workgroup meetings** occur quarterly; stakeholder workshops are anticipated annually.

GSA Program Management

Monitoring Programs

Tribal Coordination

Stakeholder Outreach

Annual Reports

5-year Plan Update

Monitoring Network Improvements

Refine Subbasin Characterization

Pursue Funding Opportunities

Implement Projects & Management Actions (PMAs)

Alternative Plan Implementation Ladder

Poll Question #4:

How would you prefer to stay informed about implementation of the 2027 Alternative Plan?

- *Email updates/newsletters*
- *Public workshops*
- *Project website*
- *Social media*
- *Local news/community organizations*

Next Steps



Outreach Timeline

Today!

Fall 2026

**WORKSHOP #3: Groundwater Model –
Baseline, Projects and Management
Actions, Plan Implementation**

Late Fall 2026

**WORKSHOP #4: Groundwater Model –
Scenarios, Alternative Plan Draft**

Next Steps

- Simulation of future scenarios using the groundwater model
- Evaluation of Indio Subbasin sustainability in future scenarios
- Compilation and review of 2027 Alternative Plan Update

Poll Question #5:

What is your biggest priority for groundwater management in the Indio Subbasin?

- *Ensuring a reliable water supply*
- *Protecting groundwater quality*
- *Supporting future growth and development*
- *Managing costs and affordability*
- *Protecting the environment*
- *Other*

Public Comment and Discussion



Get Involved – Visit our Website

Welcome to Indio Subbasin SGMA

Learn more and follow the development of the 2027 Indio Subbasin Alternative Plan Update

Overview of SGMA

Indio Subbasin

History of Groundwater Planning

Indio GSAs

News and Announcements

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Thank you!