2022 Indio Subbasin Alternative Plan Upda

Workshop #1 February 20, 2020









Meeting Objectives

Provide overview of Sustainable Groundwater Management Act Review history of water management planning in Indio Subbasir Describe the Alternative Plan and Plan Update approach Request input and feedback to support the update process

Agenda

- Welcome and Introductions
- Overview of SGMA
- Water Management Planning in Indio Subbasin
- Indio Subbasin Alternative Plan Update
- Public Comment
- Next Steps

Plan Update Team

Project ConsultantsTodd GroundwaterWoodard & Curran





Agenda

- Welcome and Introductions
- **Overview of SGMA**
- Water Management Planning in Indio Subbasin
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What is the Sustainable Groundwater Management Act (SGMA)?

Landmark legislation in 2014

- Provides a framework for <u>sustainable management of</u> <u>groundwater basins</u>
- Promotes *local* management
 - With local Groundwater Sustainability Agencies (GSAs)
 - Preparing a Groundwater Sustainability Plan (GSP) or submitting an Alternative Plan
- Sets regulatory deadlines for submitting plans, reporting progress, and achieving sustainable management
- Offers State assistance
 - Funding, data, and technical support

What is Sustainable Management?

Management and use of groundwater in a manner that can be maintained without causing undesirable results:



Chronic lowering of Groundwater Levels



Seawater Intrusion



Reduction of Groundwater Storage



Land Subsidence



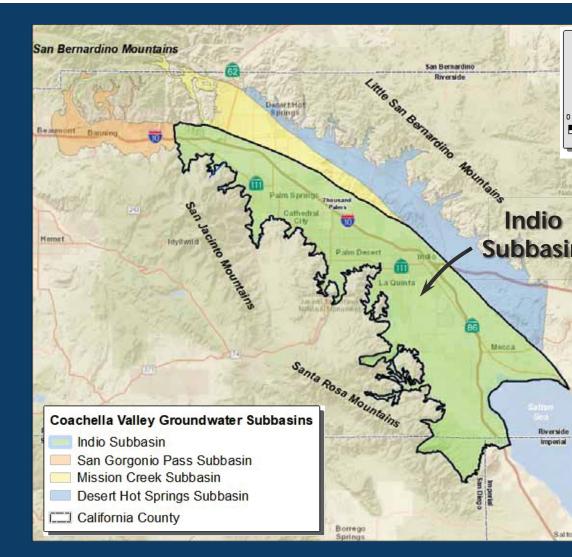
Groundwater Quality Degradation



Depletion of Interconnected Surface Water

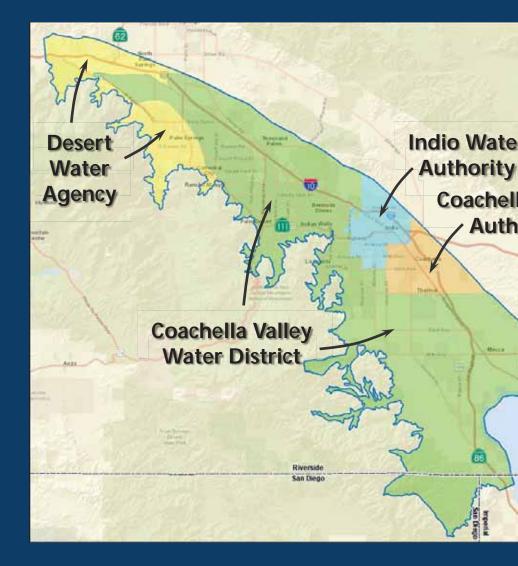
How does SGMA Apply to the Indio Subbasin

- ines Indio Subbasin as medium prity, thus subject to SGMA
- cognizes existing water nagement plan, approved as ctionally-equivalent Alternative
- commends that GSAs quantify tainability criteria and provide additional elements in Update
- uires the Indio Subbasin to be tainably managed within 20 rs

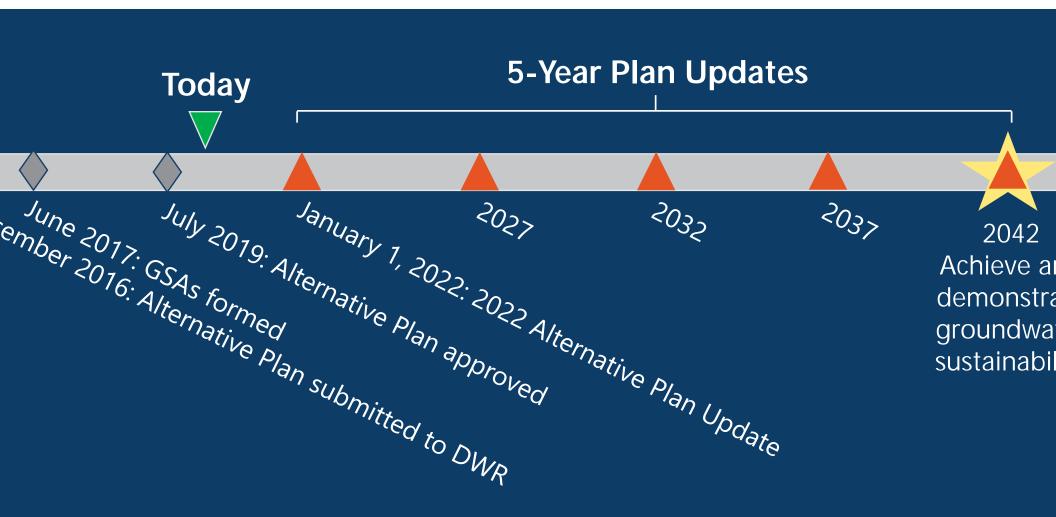


What are the Roles/Responsibilities of GSAs?

- ach GSA has responsibility and uthority for water management ithin their respective boundaries
- istorical and ongoing
- operation
- Memorandum of Understanding
- Joint submission of Alternative Plan
- Collaboration on Annual Reports and 5-Year Plan Updates



SGMA Timeline for Indio Subbasin



Agenda

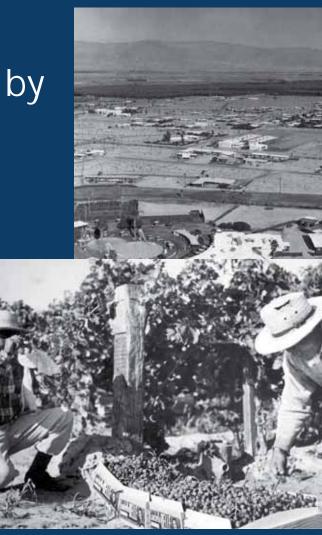
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Alternative Plan Builds on a Long History of Active Local Water Management

The history of Coachella Valley is one of agricultural and urban growth, accompanied by increasing water demand and periods of groundwater overdraft

"The existing underground water supply of the District has shown rapid depletion during the past year. The urgency of completion of a supplemental water supply is now apparent to practically all of our land owners."

Excerpt from 1945 annual report, CVCWD



Multiple Water Sources Have Been Developed Ensure a Reliable Supply

- Capture and recharge of Whitewater River stormflows begins in 1918
- Coachella Canal completed in 1949
 - Bringing Colorado River water to support agriculture in East Valley
- CVWD and DWA contracts for State Water Project (SWP) water in 1963
 - SWP exchanged for Colorado River Water via Colorado River Aqueduct
 - Recharge at Whitewater River Spreading Grounds begins in 1973
- Water recycling begins in 1965



Need for Water Management Planning to Balance Supply and Demand

- Coachella Valley Water Management Plan (CVWMP)
 Initiated 1994 to ensure adequate supplies were available to meet future demands
 - 2002 Plan and 2010 Update
 - Submitted to DWR as Indio Subbasin Alternative Plan and approved in 2019
- Other Plans
 - Coachella Valley Integrated Regional Water Management (IRWM) Plan
 - 2010 Plan and 2014 Update
 - 2018 Expansion to include Stormwater Resources Plan
 - Urban Water Management Plans
 - 2015 (individual purveyors) and 2020 Update (regional plan)



What is the Alternative Plan?

2010 CVWMP Update = Alternative Plan
 Assessed future growth and land use changes
 Estimated future water demand and supplies
 Identified management actions needed to meet current and future water demands in a cost effective and reliable manner
 Established data collection and monitoring programs to track groundwater conditions and Plan performance

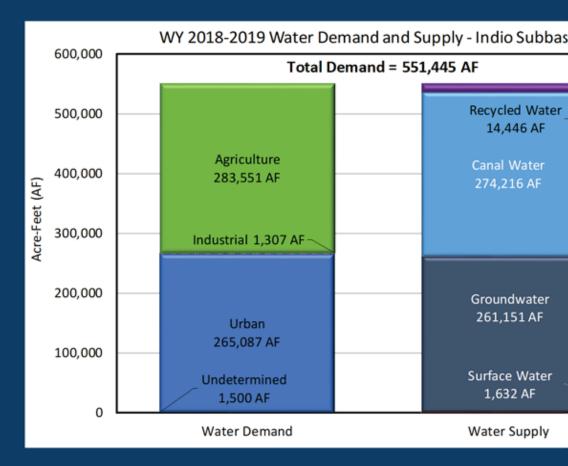
How does the Alternative Plan Compare to a GSP?

Shares common goal of achieving groundwater sustainability Eliminating overdraft and associated undesirable results <u>And</u> supports additional objectives: Maximizing conjunctive use opportunities Minimizing adverse economic impacts to Coachella Valley water users Minimizing environmental impacts (broader than surface water depletion)

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Combination of Management Actions are Essential to Meeting Local Water Demands

- 7 2018-2019 water demand: 1,445 acre-feet
- achella Canal water and oundwater make up most of the ter supply
- erage natural recharge to the dio Subbasin is only 9,000 acre-feet / year 1% of total water supply)
- ported water for recharge and her management actions are y to avoiding overdraft and desirable results



Combination of Management Actions are Essential to Meeting Local Water Demands

- Local stormwater and imported water for direct replenishment of groundwater
- Source substitution provides non-potable water for irrigation, reducing groundwater pumping
- Agricultural, golf, and urban conservation reduces water demand



Groundwater Replenishment

Active replenishment at three locations in Indio Subbasin

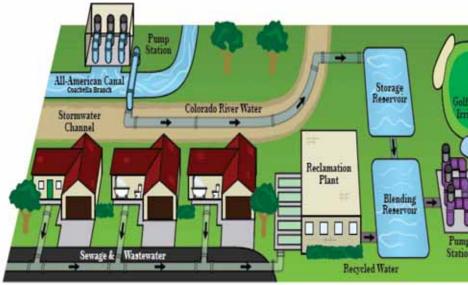
- Whitewater River (West Valley) replenishment began in 1973
- Thomas E. Levy (East Valley) replenishment began in 2009
- Palm Desert (Mid-Valley)
 replenishment began in 2019



Source Substitution – Non-Potable Water

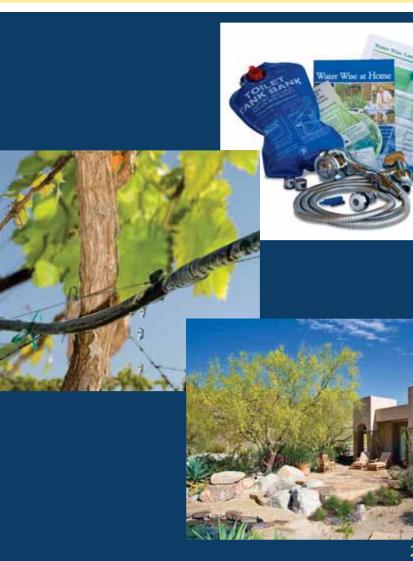
- Non-potable water sources
- Colorado River water
- Recycled water
- n WY 2018-2019
- 85% of agricultural irrigation (240,000 AF) was supplied by Coachella Canal water
- 52% of golf courses connected to non-potable water system





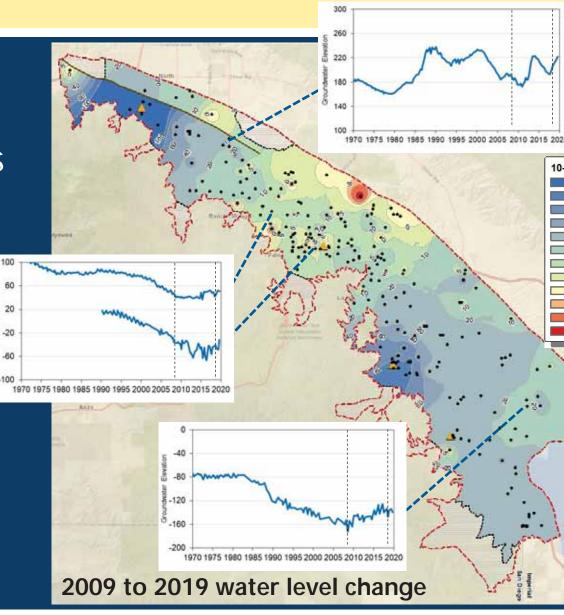
Conservation & Water Use Efficiency

- Jrban conservation
- Indoor use rebate programs
- Landscaping rebate programs
- Education/workshops
- Golf course conservation
- Education
- Recycled water
- Collaborative tools
- (water budgets, BMPs, ordinance appendix)
 Desert landscaping rebate
- Agricultural conservation
- Education
- Flood to drip rebate
- Soil/irrigation management assistance and training



s the Alternative Plan Working?

- Plan implementation has resulted in significant groundwater storage increases across the Indio Subbasin
- Over the last 10 years, groundwater levels have ncreased regionally
- More work is planned and needed to ensure continue success of the Plan



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Plan Update – Questions to be Answered

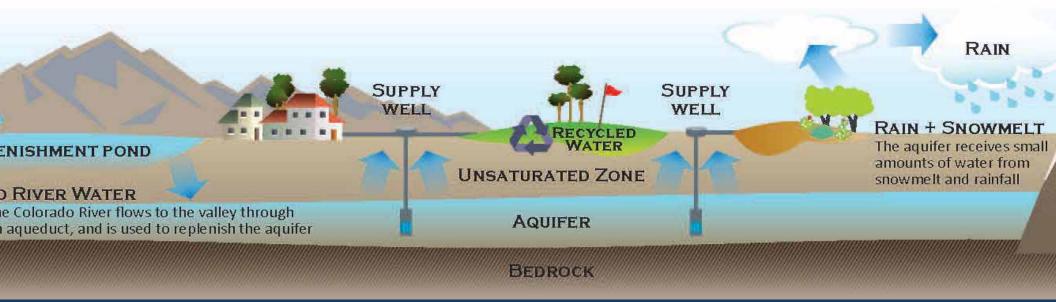
- Are predictions of population growth and water use/demand in 2010 still valid?
- What is the status of existing management actions?
- Is the current Plan implementation schedule appropriate?
- Are there any new management actions to consider?
- What new factors/conditions could affect future water demand and supplies?
- What goals and criteria are appropriate to define groundwater sustainability?

Plan Update – Tasks

- . Assess existing Plan
- 2. Update and process datasets
- Document current groundwater conditions
- . Estimate future water demand and supplies
- 5. Evaluate management actions and update implementation pla
- Simulate groundwater response to future conditions
- 2. Establish quantifiable sustainability goals and criteria
- B. Assess data collection/monitoring programs
- Develop and implement stakeholder and public outreach plan

Plan Update – Groundwater Simulations

- Update Coachella Valley groundwater flow model
- Apply model to...
 - Estimate current and future water budgets
 - Evaluate benefits of proposed management actions
 - Support selection of appropriate sustainability goals and criteria



Plan Update – Stakeholder/Public Outreach

Eight quarterly public workshops planned in 2020/2021 February, May, August, and November Report on progress Share results and findings Request input and feedback 2022 Alternative Plan Update Report Draft Report – early Fall 2021 Public Review and Comment Final Report – Winter 2021

Get Involved – Visit our Website





www.IndioSubbasinSGMA.org

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- uestions? Our website contains umerous resources related to:
- Background on SGMA and Indio Subbasin
- Frequently Asked Questions
- Upcoming Meetings/Agendas
- GSA Contacts
- Alternative Plan Reports

earn more at ww.IndioSubbasinSGMA.org



Get involved in the planning process as it develops from early 2020 to mid-2021:

- Receive news and announcements through our Mailing List
- Participate in Public Workshops and Forums

News and Announcements

We will send all news and announcements through an electronic mailing list. Please send us your name and email address and up to date on all new activities for the 2022 Alternative Plan Update.

Public Workshops

Feedback from stakeholders and community members is crucial to the Plan Update! Public workshops will be held approximate update interested residents and stakeholders about the Alternative Plan Update. The public workshops will include presentation of the public workshops will be held approximate update interested residents and stakeholders about the Alternative Plan Update. The public workshops will include presentation of the public workshops will be held approximate update interested residents and stakeholders about the Alternative Plan Update. The public workshops will be held approximate update interested residents and stakeholders about the Alternative Plan Update. The public workshops will be held approximate update interested residents and stakeholders about the Alternative Plan Update. The public workshops will be held approximate update interested residents and stakeholders about the Alternative Plan Update. The public workshops will be held approximate update interested residents and stakeholders about the Alternative Plan Update. The public workshops will be held approximate update interested residents and stakeholders about the Alternative Plan Update. The public workshops will be held approximate update update interested residents and stakeholders about the Alternative Plan Update. The public workshops will be held approximate update update

Get Involved – Visit our Website

Sign up for email invites, updates, and data/report releases at <u>www.IndioSubbasinSGMA.org</u>

Stay Connected S

Sign up to be on our mailing list for updates about the Indio Subbasin SGMA process.

Name *	Email *
Please enter your name *	Please enter your email *
Submit 🖪	
We will never share your information with anyone.	

Your Participation and Input are Important

Our goals are to:

- Enhance public understanding about water resources in the Indio Subbasin
- Keep you the public and stakeholders informed about the Plan Update process
- Engage diverse interested parties and stakeholders
- Make sure we incorporate best available information
- Respond to your concerns

Public Comment

Input and feedback are welcomed

Vext Steps

March – May 2020

Finish assessment of 2010 Plan
Complete data collection and process datasets
Document existing groundwater conditions

Forecast future growth, land use, and water demand

Vext Steps

May 21, 2020

2:00 – 4:00 PM

Location: TBD

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For additional information,

please contact:

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