Temescal Subbasin Groundwater Sustainability Agency

Technical Advisory Committee

August 19, 2020







How to Mute and Start/Stop Video

Welcome and Introductions













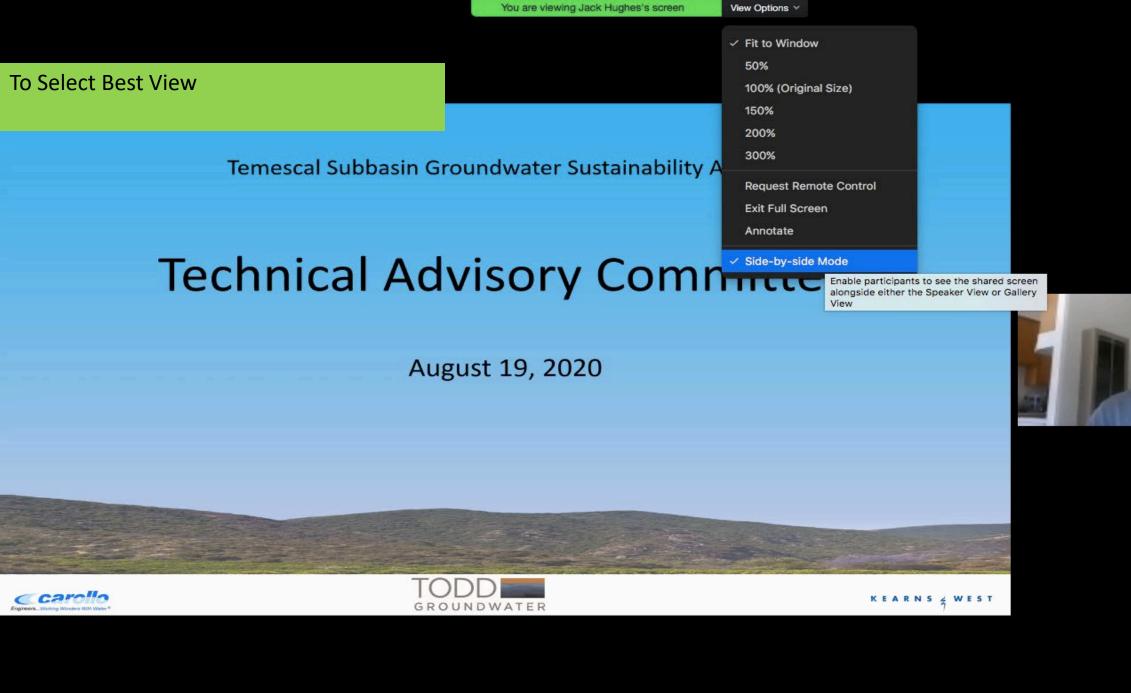




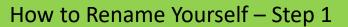












Welcome and Introductions







KEARNS & WEST













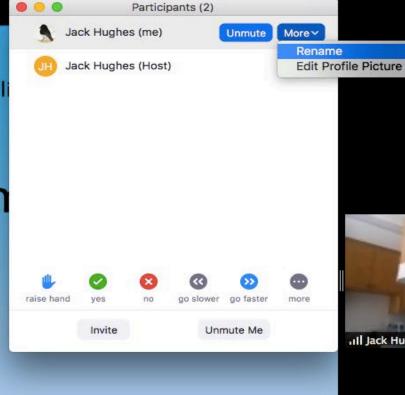




Temescal Subbasin Groundwater Sustainabili

Technical Advisory Con

August 19, 2020



























How to Raise Your Hand—Step 1

Welcome and Introductions







KEARNS & WEST













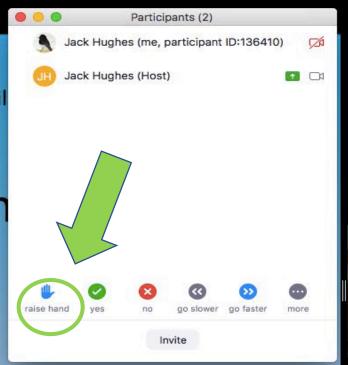




Temescal Subbasin Groundwater Sustainabil

Technical Advisory Con

August 19, 2020























Welcome and Introductions





Introductions

- Name
- Who you are representing
- What have you been pleasantly surprised by recently?





Why the Temescal Groundwater Sustainability Agency Needs You





Tips for a Productive Discussion

- Let one person speak at a time
- Help make sure everyone gets equal time to give input
- Keep your input concise so others have time to participate
- Actively listen to others and seek to understand their perspectives
- Offer ideas to address questions and concerns raised by others





Overview of Meeting Agenda





Meeting Agenda

- Welcome and Introductions
- 2. Overview of Meeting Agenda
- 3. Orientation to the Sustainable Groundwater Management Act
 - Sustainable Groundwater Management Act (SGMA) Overview
 - Temescal Subbasin GSA
 - Discussion/Q&A
- 4. Summary of GSP Workplan and Schedule
 - GSP Workplan and Schedule
 - Discussion/Q&A

- 5. Outreach and Involvement
 - Outreach and Stakeholder Involvement Plan
 - Focus on Disadvantaged Community Engagement
 - Website Overview
 - Fact Sheets
 - Public Workshop 1
 - Discussion/Q&A
- 6. Role of the Technical Advisory Committee
 - Technical Advisory Committee (TAC) formation and purpose
 - Draft TAC Protocols and Operating Principles and Confirmation
 - Discussion of TAC roles and responsibilities
- 7. Public Comment
- 8. Next Steps and Final Comments





Orientation to the Sustainable Groundwater Management Act





Sustainable Groundwater Management Act (SGMA)

Landmark legislation signed into law in 2014

- Provides framework for sustainable groundwater management
- Purpose is to facilitate local management of groundwater
- State assistance, and intervention if necessary

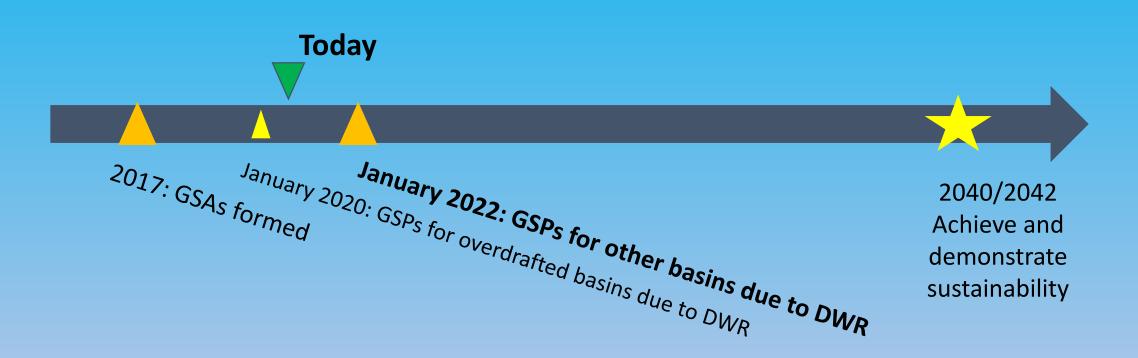
Includes comprehensive requirements for:

- Forming groundwater sustainability agencies (GSA)
- Preparing groundwater sustainability plans (GSP)
- Meeting deadlines



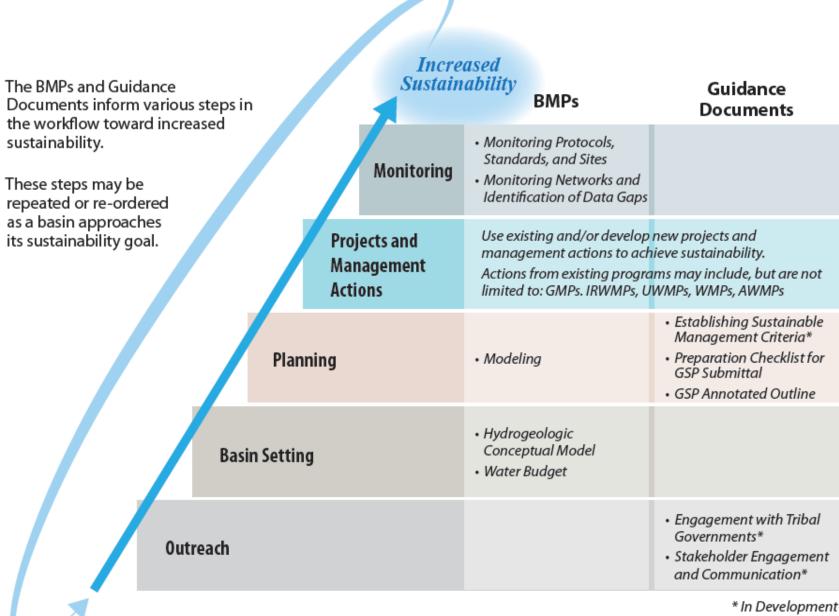


SGMA has a required timeline













Achieving sustainable groundwater management

What is Sustainable Groundwater Management?

- The management and use of groundwater in a manner that can be maintained without causing undesirable results
- Evaluated with respect to specific Sustainability Indicators
- Locally defined





Sustainability Indicators



Chronic lowering of groundwater levels



Reduction of groundwater storage



Degradation of water quality



Depletions of interconnected surface water affecting beneficial uses



Land subsidence affecting land uses



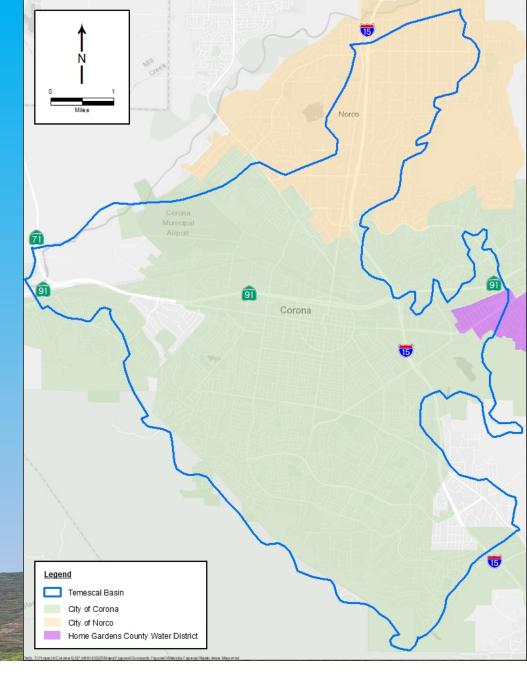
Seawater intrusion (not applicable here)





The Temescal Basin

- DWR categorized as a Medium Priority Basin
- Contiguous and connected







Groundwater Sustainability Agency for the Temescal Basin

- Managed together historically
- Corona, Norco, and Home Gardens
 County Water District formed GSA led by
 Corona
- Allows for preparation of one, unified GSP





GSA Organization



City of Corona



City of Norco



Home Gardens County Water District

Department of Water and Power

Staff and Consultants

- Corona DWP Staff
- Todd Groundwater
- Carollo Engineers
- Kearns & West

Technical Advisory Committee

- Public agencies
- Local business community
- Well owners
- Community interests

Other agencies and interested parties



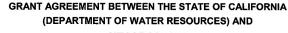


To Date, the Groundwater Sustainability Agency

- Awarded grant for GSP preparation
- Assembled GSP team
- Initiated technical work on GSP
- Created outreach plan
- Formed TAC
- Creating new SGMA section on DWP website







CITY OF CORONA

AGREEMENT NUMBER 4600012652

2017 PROPOSITION 1 SUSTAINABLE GROUNDWATER PLANNING (SGWP) GRANT

THIS GRANT AGREEMENT is entered into by and between the Department of Water Resources of the State of California, herein referred to as the "State" or "DWR" and the City of Corona, a public agency in the State of California, duly organized, existing, and acting pursuant to the laws thereof, herein referred to as the "Grantee," which parties do hereby agree as follows:

- 1) PURPOSE. The State shall provide funding from the Water Quality, Supply, and Infrastructure Improvement Act of 2014 (Proposition 1) to assist the Grantee in financing the planning and/or selected project activities (Project) that will improve sustainable groundwater management, pursuant to Water Code Section 79700 et seq. The provision of State funds pursuant to this Agreement shall not be construed or interpreted to mean that the Groundwater Sustainability Plan (GSP), or any components of the GSP, implemented in accordance with the Work Plan as set forth in Exhibit A, will be: adopted by the applicable Groundwater Sustainability Agency (GSA); obtain the necessary desirable results of Sustainable Management Criteria; or, meet all of the evaluation and assessment criteria when submitted to the Department of Water Resources as required by the Sustainable Groundwater Management Act and implementing regulations.
- 2) <u>TERM OF GRANT AGREEMENT.</u> The term of this Grant Agreement begins on the date this Grant Agreement is executed by the State, through final payment plus three (3) years unless otherwise terminated or amended as provided in this Grant Agreement. However, all work shall be completed in accordance with the Schedule as set forth in Exhibit C.
- GRANT AMOUNT. The maximum amount payable by the State under this Grant Agreement shall not exceed \$732.338.
- 4) GRANTEE COST SHARE. The Grantee is required to provide a Local Cost Share (non-State funds) of not less than 50 percent of the Total Project Cost. The cost share requirement for projects benefiting a Severely Disadvantaged Community (SDAC), Disadvantaged Community (DAC), or an Economically Distressed Areas (EDA) may be waived or reduced. The Grantee agrees to provide a Local Cost Share (non-State funds) for the amount as documented in Exhibit B (Budget). Local Cost Share may include Eligible Project Costs directly related to Exhibit A incurred after January 1, 2015.
- 5) <u>BASIC CONDITIONS</u>. The State shall have no obligation to disburse money for a project under this Grant Agreement until the Grantee has satisfied the following conditions (if applicable):
 - Prior to execution of this Grant Agreement, selected applicants (Groundwater Sustainability Agency) for GSP Development projects must submit evidence of a notification to the public and DWR prior to initiating development of a GSP in compliance with California Code of Regulations, title 23, Section 350 et seq. (GSP Regulations) and Water Code Section 10727.8.
 - The Grantee must demonstrate compliance with all relevant eligibility criteria as set forth on pages 7 and 8 of the 2015 Grant Program Guidelines for the SGWP Grant Program.
 - For the term of this Grant Agreement, the Grantee submits timely reports and all other deliverables as required by Paragraph 16, "Submission of Reports" and Exhibit A.
- 6) <u>DISBURSEMENT OF FUNDS.</u> The State will disburse to the Grantee the amount approved, subject to the availability of funds through normal State processes. Notwithstanding any other provision of this Grant Agreement, no disbursement shall be required at any time or in any manner which is in violation of, or in conflict with, federal or state laws, rules, or regulations, or which may require any rebates to the federal government, or any loss of tax-free status on state bonds, pursuant to any federal statute or regulation. Any and all money disbursed to the Grantee under this Grant Agreement shall be deposited in a non-interest bearing account and shall be used solely to pay Eligible Project Costs.



Discussion / Q&A

- What have you heard about groundwater and/or SGMA and what do you think are some important groundwater management issues?
- Are you aware of any data or studies we should review during GSP preparation?





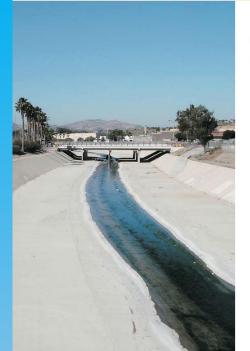
Summary of GSP Workplan and Schedule





The GSP will Build on Existing Management

- Local groundwater
- Imported water
- Water recycling and water conservation
- Monitoring
- Collaboration with other local agencies
- Transition to SGMA requirements





Groundwater Management Plan

Prepared for City of Corona

June 2008









Temescal GSP Overview

Plan Development

Identify and evaluate actions Establish monitoring program

Management Actions, Projects, and Monitoring

Evaluate sustainability indicators

Define undesirable results
Establish minimum thresholds

Sustainability Goals and Criteria

Construct numerical groundwater model Calculate water budgets and sustainable yield

Groundwater Model / Water Budgets

Evaluate hydrogeologic setting Define groundwater conditions

Hydrogeologic Conceptual Model / GW Conditions

Plan Area / Institutional
Setting

Data Compilation / Management System





Sustainability Indicator Requirements



 Groundwater elevation decline based on historical trends, water year type, and projected water use in the basin



 Sustainable yield, calculated based on historical trends, water year type, and projected water use in the basin



 Number of supply wells, volume of water, or location of an isocontour exceeding constituents of concern, considering state and federal standards



 Depletion that has adverse impacts on beneficial use of surface water supported by the location, quantity, and timing of depletions; assumes use of a numerical model.



 Rate and extent of subsidence that interferes with surface land use supported by identification of land/property interests affected or likely to be affected.





Considerations for Temescal



Historic low levels? Consider beneficial uses of wells; problems during the recent drought?
 Must be water levels in representative wells.



Use Water Level criteria? Develop operational range of storage with an emergency supply?
 Related to water levels.



- Title 22, basin plan objectives, GAMA, GeoTracker, SNMP?
- Should coordinate with existing regional programs.



Interconnected Surface Water and Groundwater Dependent Ecosystems (GDEs),
 Prado area? — Modeling to identify potential undesirable results.



- Subsidence does not currently interfere with land uses
- Can take advantage of statewide satellite estimates.





GSP Schedule

Plan Development

Management Actions, Projects, and Monitoring

Sustainability Goals and Criteria

Groundwater Model / Water Budgets

Hydrogeologic Conceptual Model / GW Conditions

Plan Area / Institutional Setting

Data Compilation / Management System

2020

2021





TAC Meetings and Workshops

TAC Meeting 4 – May 19, 2021

Draft GSP Presentation (Q3 2021)

TAC Meeting 3 – February 17, 2021

Public Workshop 3

Management Actions (Q2 2021)

TAC Meeting 2 – November 18, 2020

Public Workshop 2
Sustainability Criteria (Q1 2021)

TAC Meeting 1 – August 19, 2020

Public Workshop 1
Kickoff and Introduction to
SGMA (Q3 2020)

Plan Development

Management Actions, Projects, and Monitoring

Sustainability Goals and Criteria

Groundwater Model / Water Budgets

Hydrogeologic Conceptual Model / GW Conditions

Plan Area / Institutional Setting

Data Compilation / Management System

2021

2020





GSP Workplan and Schedule Discussion/Q&A

Questions?

Comments?





Outreach and Stakeholder Involvement





Outreach and Stakeholder Involvement Plan Purpose

- Provide a framework for integrating public and stakeholder outreach and involvement into GSP preparation.
- Meet SGMA requirements
 - GSAs must consider the interests of all beneficial uses and users of groundwater and provide opportunities for public engagement and active involvement of diverse social, cultural, and economic elements of the population.





Outreach and Stakeholder Involvement Plan Objectives

- *Inform* all stakeholders of the GSP development process, including purpose, opportunities and issues, core recommendations, and timeline.
- Provide *meaningful opportunities* for stakeholders and the public to learn, ask questions, and provide input.
- Involve the many *diverse communities and stakeholders* of Corona, Norco, and Home Gardens, recognizing that different approaches may be needed to reach specific populations like Disadvantaged Communities, and flexibility and adaptation in approach may be required.
- Ensure a **transparent process** where stakeholders and the public can understand what important discussions are taking place, how they can participate in them, and how input is being used.





Outreach and Stakeholder Involvement Plan

Stakeholder Categories

- Agriculture
- California Statewide Groundwater Elevation Monitoring Agencies
- Businesses and Development
- Disadvantaged Communities
- Domestic Well Owners
- Environmental and Conservation
- Extractive Industry
- Federal Government Agencies

- Groundwater Right Holders
- Industrial Well Operators
- Land Use Planning Agencies
- Local Water Districts
- Municipal Well Operators
- Private Water Users
- Regulatory Agencies
- Surface Water Users





Outreach and Stakeholder Involvement Plan

Temescal Subbasin GSP Outreach and Stakeholder Involvement Process

Step 1 Launch Project

Summer 2020

Stakeholder and Public Dialogue Focus

Announce project launch. Step 2 Conduct Baseline Studies

Summer and Fall 2020

Provide info on project purpose and methodology, and role of stakeholder involvement. Step 3 Build Water Budget and Numerical Model

Fall and Winter 2020

Share information regarding Step 2 activities and gather feedback on water budget and modeling, and sustainability criteria. Step 4
Define Sustainability
Goal and Criteria
Winter 2021

Review draft sustainability criteria and gather feedback on management actions. Step 5 Prepare Draft GSP

Spring 2021

Gather feedback on draft management actions and inform about implementation and monitoring. Step 6 Review Draft GSP and Adopt Final GSP

Summer - Winter 2021

Comments on Draft GSP

Final GSP

Submittal to DWR





Outreach and Stakeholder Involvement Plan Activities

- Pre-Workshop Outreach
- Public Workshops
- Technical Advisory Committee Meetings
- City Council and Board of Directors Meeting Presentations
- Public Comment Period





Temescal Subbasin GSP Outreach and Stakeholder Involvement Process

	Step 1 Launch Project Summer 2020		Step 2 Conduct Baseline Studies Summer and Fall 2020		Step 3 Build Water Budget and Numerical Model Fall and Winter 2020		Step 4 Define Sustainability Goal and Criteria Winter 2021		Step 5 Prepare Draft GSP Spring 2021		Step 6 Review Draft GSP and Adopt Final GSP Summer – Winter 2021
Stakeholder and Public Dialogue Focus	Announce project launch.	→	Provide info on project purpose and methodology, and role of stakeholder involvement.	→	Share information regarding Step 2 activities and gather feedback on water budget and modeling, and sustainability criteria.	→	Review draft sustainability criteria and gather feedback on management actions.	→	Gather feedback on draft management actions and inform about implementation and monitoring.	→	Comments on Draft GSP Final GSP Submittal to DWR
	City Website Page and Social Media										
Stakeholder and Public Involvement	Community Leader/ Organization Interviews Stakeholder Identification Outreach and Stakeholder Involvement Communications Plan		TAC Meeting #1 Updates at City Council/Board Meetings Pre-Workshop Outreach Round 1 Public Workshop #1 Kickoff Meeting		TAC Meeting #2 Updates at City Council/Board Meetings		TAC Meeting #3 Updates at City Council/Board Meetings Pre-Workshop Outreach Round 2 Public Workshop #2		TAC Meeting #4 Updates at City Council/Board Meetings Pre-Workshop Outreach Round 3 Public Workshop #3		Pre-Workshop Outreach Round Public Workshop #4 Public notice of process and availability of review draft. 90 Day Comment Period & Adoption





Focus on Underrepresented Community Engagement





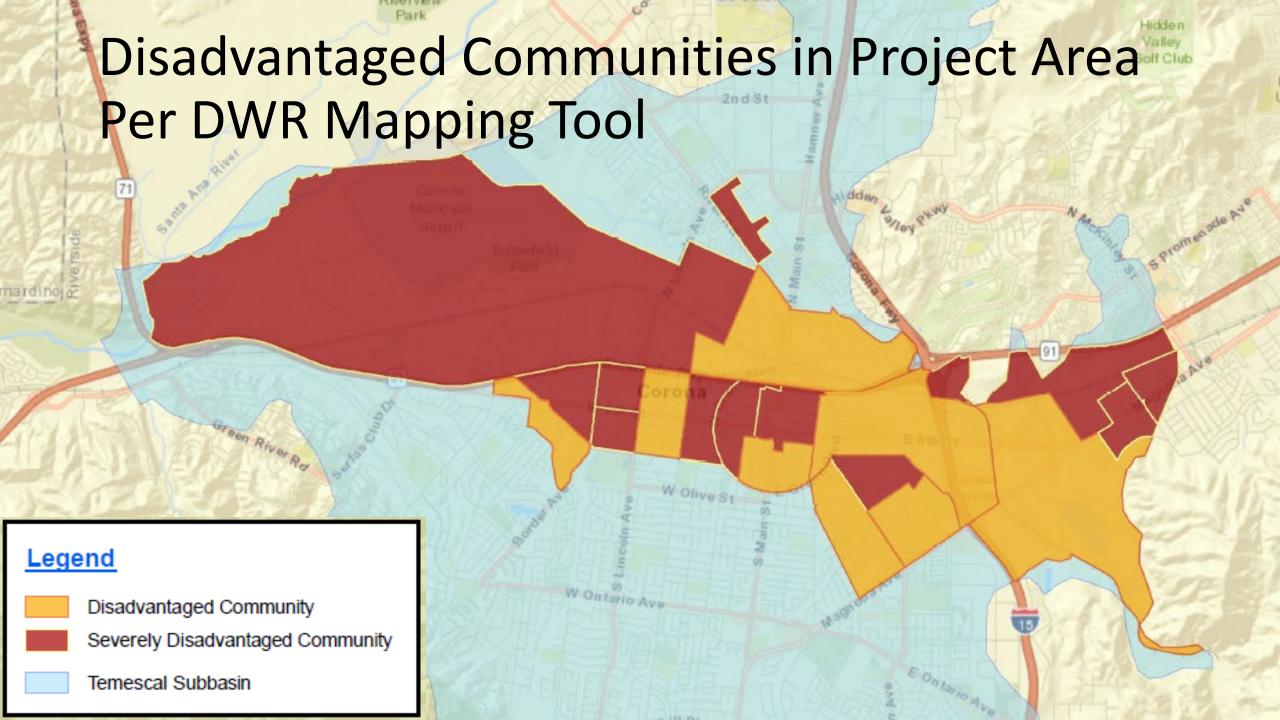
Underrepresented Community Engagement Definition

Underrepresented Communities are:

- Disadvantaged Communities characterized by an annual median household income less than 80% of the California statewide median household income.
- Severely Disadvantaged Communities are characterized by an annual median household income less than 60% of the California statewide median household income.







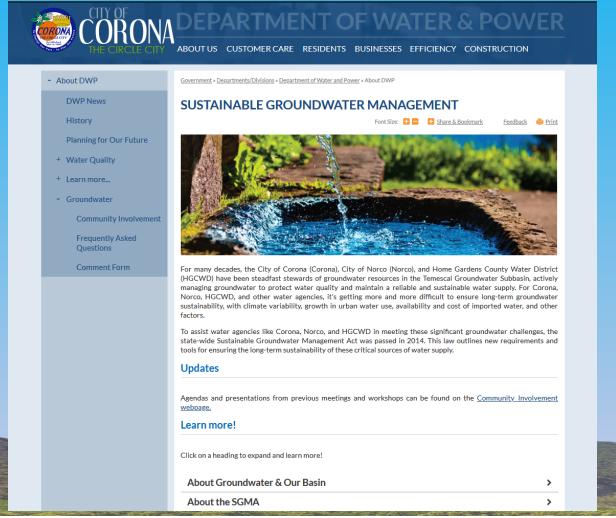
Temescal Subbasin GSP Outreach and Stakeholder Involvement Process

	Step 1 Launch Project Summer 2020		Step 2 Conduct Baseline Studies Summer and Fall 2020		Step 3 Build Water Budget and Numerical Model Fall and Winter 2020		Step 4 Define Sustainability Goal and Criteria Winter 2021		Step 5 Prepare Draft GSP Spring 2021		Step 6 Review Draft GSP and Adopt Final GSP Summer – Winter 2021
Stakeholder and Public Dialogue Focus	Announce project launch.	→	Provide info on project purpose and methodology, and role of stakeholder involvement.	→	Share information regarding Step 2 activities and gather feedback on water budget and modeling, and sustainability criteria.	→	Review draft sustainability criteria and gather feedback on management actions.	→	Gather feedback on draft management actions and inform about implementation and monitoring.	→	Comments on Draft GSP Final GSP Submittal to DWR
	City Website Page and Social Media										
Stakeholder and Public Involvement	Community Leader/ Organization Interviews Stakeholder Identification Outreach and Stakeholder Involvement Communications Plan		TAC Meeting #1 Updates at City Council/Board Meetings Pre-Workshop Outreach Round 1 Public Workshop #1 Kickoff Meeting		TAC Meeting #2 Updates at City Council/Board Meetings		TAC Meeting #3 Updates at City Council/Board Meetings Pre-Workshop Outreach Round 2 Public Workshop #2		TAC Meeting #4 Updates at City Council/Board Meetings Pre-Workshop Outreach Round 3 Public Workshop #3		Pre-Workshop Outreach Round Public Workshop #4 Public notice of process and availability of review draft. 90 Day Comment Period & Adoption





Website







Fact Sheet

TEMESCAL GSA

GROUNDWATER FOR PEOPLE, THE ENVIRONMENT, AND THE FUTURE

GET INVOLVED!

Community input is needed! We want your help to create an effective plan for the future of our groundwater. Visit CoronaCA.gov/Groundwater or send an email to Groundwater@CoronaCA.gov to attend a workshop or learn more!

THE WATER BENEATH YOUR FEET AND IN YOUR FAUCET

You may not know it, but if you live in Corona, Norco, or Home Gardens, you are likely using groundwater that comes from the Temescal Basin. Groundwater from the Temescal Basin and other local groundwater basins, along with water purchased from other areas, is treated and blended together. It then arrives as tap water at your home

The groundwater beneath your feet is an important local resource that will be even more important in the future. On the other side of this factsheet, you can learn more about who manages groundwater in the Temescal Basin and how you can get involved in protecting local groundwater for your community and all who depend on it.



Groundwater is an important source of water stored in the earth beneath our feet, in spaces between sand, soils, and fractured rock known as an aquifer. The areas of the most productive aquifers in California have been defined as groundwater basins, which can extend for many miles. The Temescal Basin covers nearly 66 square miles.

WHO USES GROUNDWATER?

Groundwater from aquifers is drawn out by pumps. to supply to businesses and homes. People in rural areas may have their own wells for personal use and/or to water crops. Groundwater also has many uses in manufacturing and industry. It can be used to process, wash, cool, or transport a product.

Groundwater is important to the environment, it flows Cities and water districts pump groundwater from wells to and from wetlands, springs, creeks, lakes, and other bodies of water. The plants and animals that live near or in these bodies of water sometimes depend on it for their survival. These areas are called Groundwater Dependent Ecosystems.







TEMESCAL GROUNDWATER SUSTAINABILITY PLAN

TEMESCAL GSA

GROUNDWATER FOR PEOPLE, THE ENVIRONMENT, AND THE FUTURE



GROUNDWATER MANAGEMENT

For many decades, the City of Corona, City of Norco, and Home Gardens County Water District have carefully managed groundwater in the Temescal Basin. They have made sure that there is enough clean and drinkable water for the communities that need it. This has become more of a challenge due to changes in climate, the cost of importing water, and the fact that more water is needed because communities are growing. To help all stewards of groundwater plan for these changes, the state-wide Sustainable Groundwater Management Act was passed in 2014.

The Sustainable Groundwater Management Act or "SGMA" is a California law that gives local agencies new tools for managing groundwater and planning for the future. The City of Corona, City of Norco, and Home Gardens County Water District have formed the Temescal Subbasin Groundwater Sustainability Agency (Temescal GSA) in order to make a Groundwater Sustainability Plan for the Temescal Basin. Since groundwater is such an important resource for everyone, we need your help!

GROUNDWATER FOR THE FUTURE

Important factors for groundwater

basin management can be seen







on the right. By creating a Groundwater Sustainability Plan, we will better manage the groundwater in the Temescal Basin and ensure we have enough for current and future generations. We will seek understanding of

past groundwater use and plan for the sustainable use of future groundwater. Whether you own your own well,

use water from the tap, irrigate your crops, or pump groundwater for your business, everyone can participate

in making this plan a success! We want to hear your questions, ideas, and concerns about protecting our groundwater supply and quality in the Temescal Basin. To find out how, please visit the website at CoronaCA:gov/









To learn more about the TEMESCAL GROUNDWATER SUSTAINABILITY PLAN, including dates of public workshops and other ways to get involved:

Please visit CoronaCA.gov/Groundwater

Send an email to Groundwater@CoronaCA.gov







TEMESCAL GROUNDWATER SUSTAINABILITY PLAN





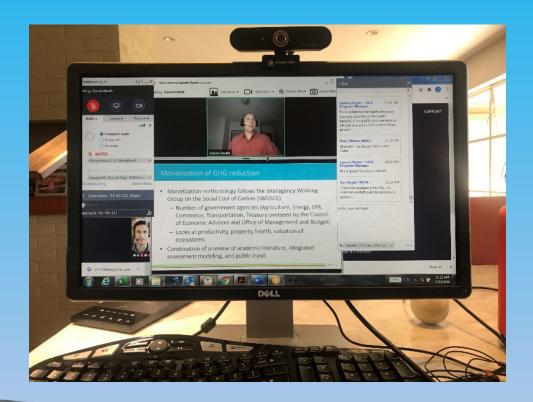
Public Workshop 1

- The first Public Workshop is tentatively scheduled for September 29th
- Focus
 - Introduction to SGMA and GSPs, the Temescal Basin, planning process, and resources





Public Workshop 1 . . . Virtual + Inclusive



Creative and innovative tools will be employed to accomplish workshop objectives





Discussion / Q&A

- How can we reach more of your community or constituents/other stakeholders and the public in our pre-workshop outreach?
- How might you be able to help us spread awareness of the first public meeting?





Role of the Technical Advisory Committee





Introduction

Charge

Roles and Responsibilities

Participation and Collaboration

Principles

Membership

Request for No Use of Alternatives

Term of Service

Meeting Logistics and Communication

Communication and Media

Open Meetings





Introduction

Charge

Roles and Responsibilities

Participation and Collaboration

Principles

Membership

Request for No Use of Alternatives

Term of Service

Meeting Logistics and Communication

Communication and Media

Open Meetings





Introduction

Charge

Roles and Responsibilities

Participation and Collaboration

Principles

Membership

Request for No Use of Alternatives

Term of Service

Meeting Logistics and Communication

Communication and Media

Open Meetings





Introduction

Charge

Roles and Responsibilities

Participation and Collaboration Principles

Membership

Request for No Use of Alternatives

Term of Service

Meeting Logistics and Communication

Communication and Media

Open Meetings





Introduction

Charge

Roles and Responsibilities

Participation and Collaboration Principles

Membership

Request for No Use of Alternatives

Term of Service

Meeting Logistics and Communication

Communication and Media

Open Meetings





Introduction

Charge

Roles and Responsibilities

Participation and Collaboration

Principles

Membership

Request for No Use of Alternatives

Term of Service

Meeting Logistics and Communication

Communication and Media

Open Meetings





Introduction

Charge

Roles and Responsibilities

Participation and Collaboration

Principles

Membership

Request for No Use of Alternatives

Term of Service

Meeting Logistics and Communication

Communication and Media

Open Meetings





Introduction

Charge

Roles and Responsibilities

Participation and Collaboration

Principles

Principles

Membership

Request for No Use of Alternatives

Term of Service

Meeting Logistics and Communication

Communication and Media

Open Meetings





Introduction

Charge

Roles and Responsibilities

Participation and Collaboration

Principles

Membership

Request for No Use of Alternatives

Term of Service

Meeting Logistics and Communication

Communication and Media

Open Meetings





Introduction

Charge

Roles and Responsibilities

Participation and Collaboration

Principles

Membership

Request for No Use of Alternatives

Term of Service

Meeting Logistics and Communication

Communication and Media

Open Meetings





Introduction

Charge

Roles and Responsibilities

Participation and Collaboration

Principles

Membership

Request for No Use of Alternatives

Term of Service

Meeting Logistics and Communication

Communication and Media

Open Meetings





Introduction

Charge

Roles and Responsibilities

Participation and Collaboration

Principles

Membership

Request for No Use of Alternatives

Term of Service

Meeting Logistics and Communication

Communication and Media

Open Meetings





Technical Advisory Committee Contact

Melissa Estrada-Maravilla

Email: Melissa. Estrada - Maravilla @ Corona CA.gov

Phone: 951.736.2479





Discussion of TAC Roles and Responsibilities and Confirmation

Questions?

Comments?

Protocols and Operating Principles Confirmation





Public Comment





Next Steps and Final Comments





Next Steps

- Continue Technical Analyses
 - Prepare internal draft Hydrogeologic Conceptual Model and Groundwater Conditions chapters of the GSP
 - Continue numerical model and water budget analysis
- Provide Administrative Draft Plan Area chapter of the GSP to TAC today, with all comments back by September 4th.
- Prepare for and hold Public Workshop 1 (September 29th)
- Next TAC meeting November 18, 2020
 - Update on technical analyses
 - Conceptual sustainability criteria discussion





Thank You!



