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**Santa Cruz County
Water Commission
Meeting**
February 4, 2022

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**Presenter: Melanie Mow
Schumacher**

SoquelCreekWater.org

Transforming Our Water For the Future

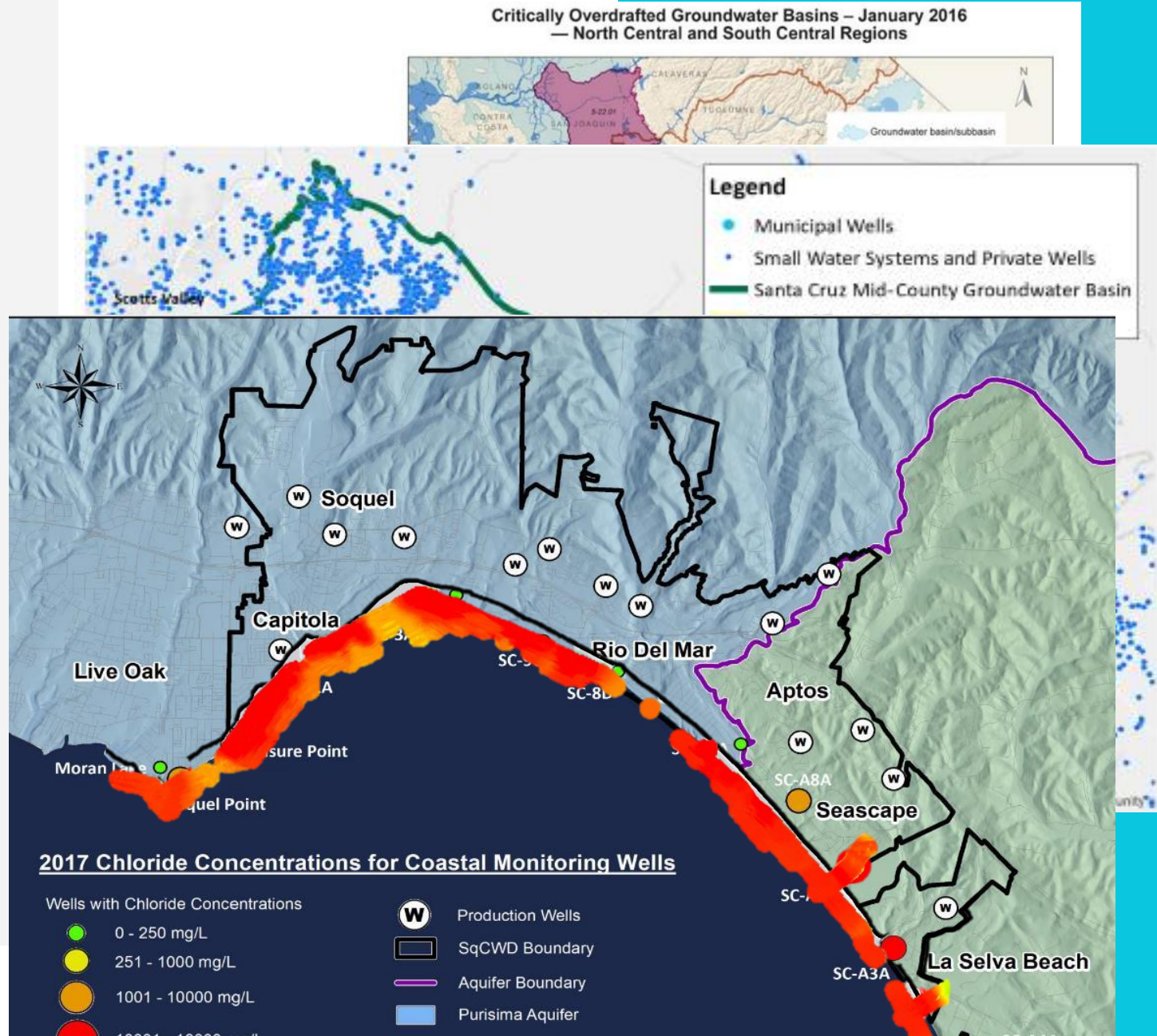
Soquel Creek Water District

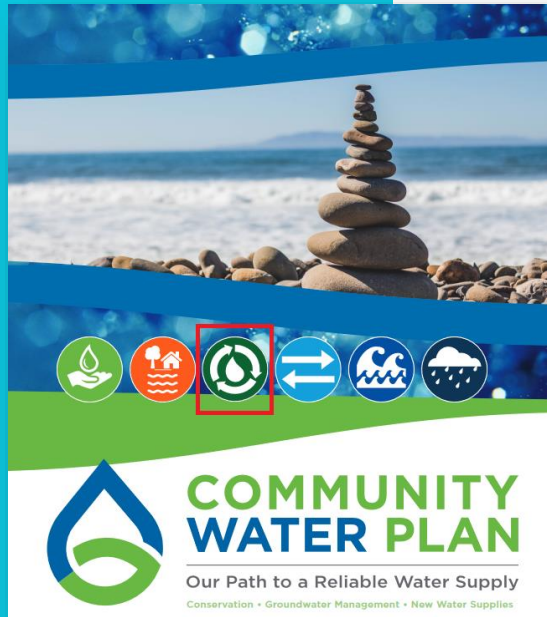
- A California Special District, which is a local government agency that provides essential services
- Not a land use authority, that is the responsibility of Santa Cruz County and City of Capitola within our service area
- Serve Aptos, La Selva Beach, Opal Cliffs, Rio Del Mar, Seascapes, Soquel, and portions of Capitola
- 100% groundwater conveyed through 165+ miles of pipeline
- 16 active groundwater wells, approximately 3,300 acre-feet per year



Mid-County Water Challenges

- **Critically overdrafted** as identified by the State of California with a mandate to be sustainable by 2040
- **Groundwater** is the **only source** of water for Soquel Creek Water District and much of the SC Mid-County Region
- **Contaminated** with seawater intrusion along the coast





Our Primary Solutions



Conservation



Groundwater Management



New Supplies

- Use Water Efficiently
- Be Adaptive with Groundwater Management
- Develop New Supplies
 - Water Purification with Pure Water Soquel
 - Excess River Water Purchases, when available
 - Storm Water Capture

Based on Community Input



Support **investment in infrastructure** to ensure a safe, reliable water supply



Support taking **strong action now** to address the issues of over-drafting and seawater contamination of the local groundwater



Are **comfortable** with **Pure Water Soquel**



Strategic Plan Update

SqCWD is undergoing a Strategic Plan Update to help guide our agency for the next three years. Will include gaining community input and a public meeting this Spring.



Chromium 6 Update

Monitoring State activity in establishing a new MCL (maximum contaminant level). There haven't been any updates to the State's website since November 2021.

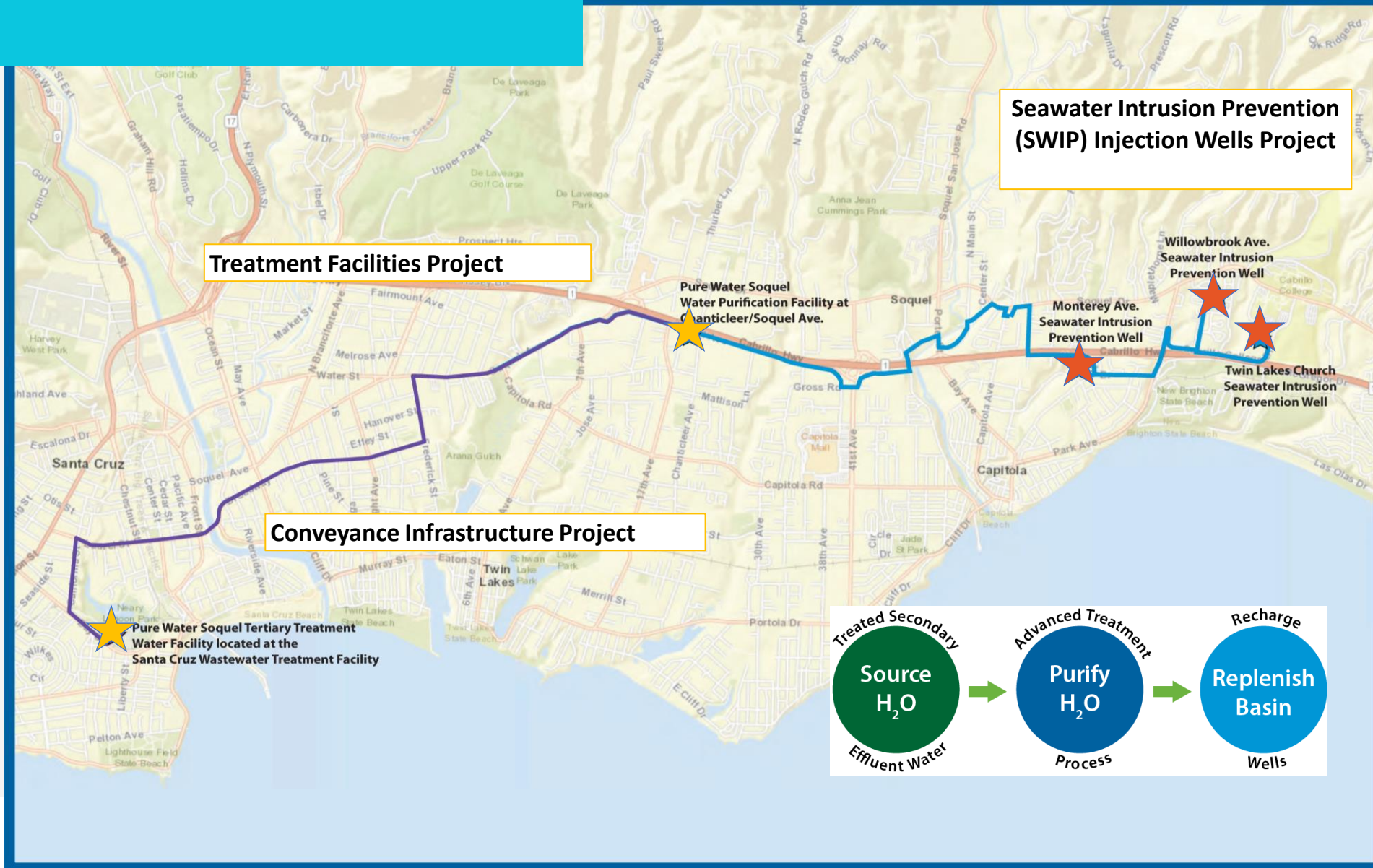
STRATEGIC PLANNING



Country Club Update

Replacement Well and 1,2,3-Trichloropropane Removal Water Treatment Plant on Baltursrol Drive in Aptos. SqCWD Board adopted IS/MND environmental review and approved project on December 21, 2021. Design is 95% complete.

Project Overview and Project Locations



Treatment Facilities Project

Seawater Intrusion Prevention (SWIP) Injection Wells Project

Conveyance Infrastructure Project

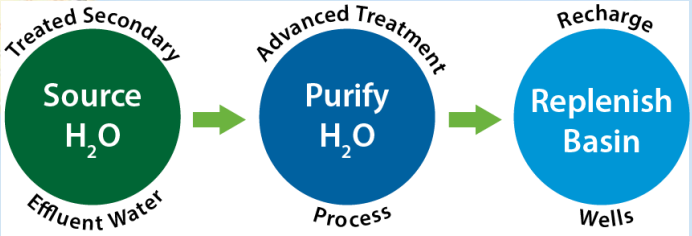
Pure Water Soquel Tertiary Treatment Water Facility located at the Santa Cruz Wastewater Treatment Facility

Pure Water Soquel Water Purification Facility at Canticleer/Soquel Ave.

Monterey Ave. Seawater Intrusion Prevention Well

Willowbrook Ave. Seawater Intrusion Prevention Well

Twin Lakes Church Seawater Intrusion Prevention Well





Reduces Discharge into the Ocean by 25%



Uses Green Energy



Provides a Seawater Intrusion Barrier



Promotes Economic Vitality



Reliable and Drought-Proof Water Supply



Produces High Quality Water



Can be Accomplished Soon



Can be Scaled-Up

Groundwater Modeling Results

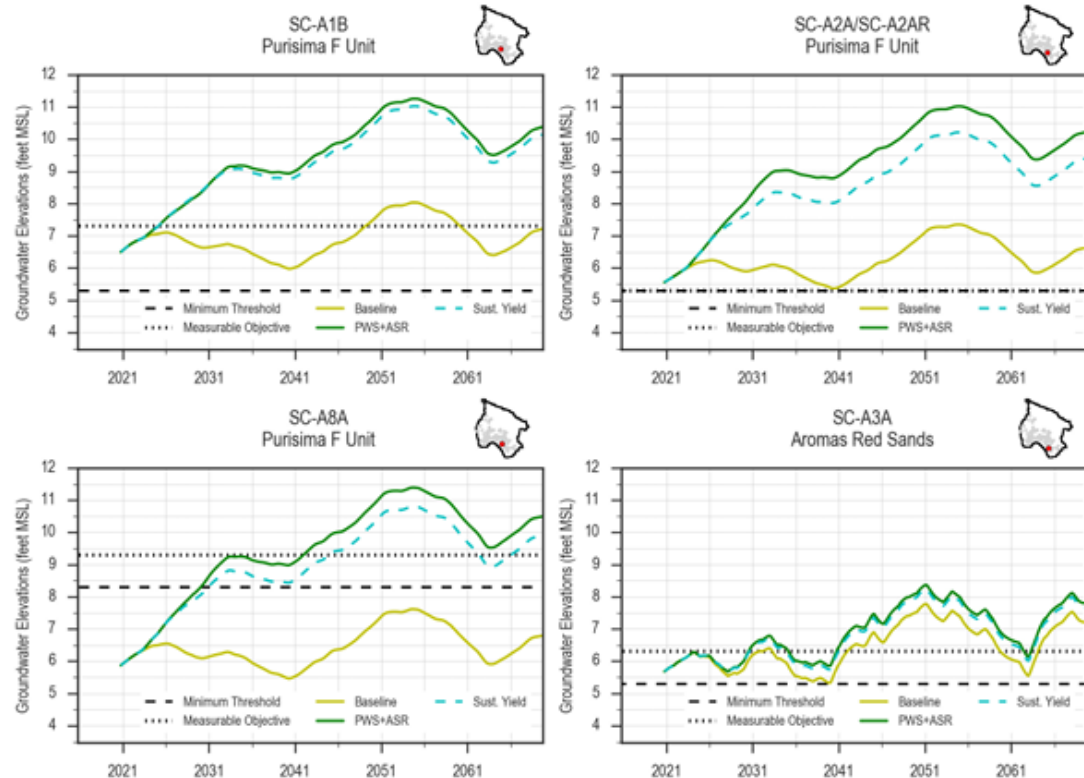


Figure 32. Running Five-Year Average Model Simulated Groundwater Elevations at Coastal Monitoring Wells in Purisima F and Aromas Red Sands Units for Sustainable Yield Estimate



Santa Cruz Mid-County Groundwater Basin GROUNDWATER SUSTAINABILITY PLAN

November 2019



Regional Benefits Community & Economics

PureWATER Soquel

- Produces 1,500 acre-feet of water per year that provides 5,800 acre-feet per year benefits
- Serves 92,130 people
- Project can expand to double capacity (Expansion requires additional CEQA and other approvals)

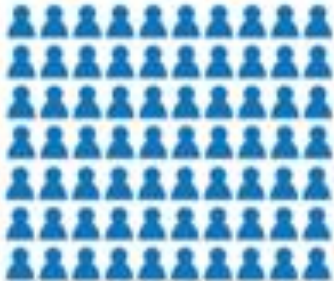
Estimated ECONOMIC IMPACTS without Project

PUREWater Soquel
Replenishing Mid-County Groundwater

**HIGHER COST
OF WATER
TO CUSTOMERS***



**725
JOB LOSSES**



**2,100
LESS HOMES
BUILT**



*Cost without project based on pricing alone
Source—Technical Memorandum: Estimating Benefits of the Pure Water Soquel Project, by Brent Hodder, Ph.D. and Bryan Pratt, D.Cand.

Estimated ECONOMIC BENEFITS

PUREWater Soquel
Replenishing Mid-County Groundwater



Source: Technical Memorandum: Estimating Benefits of the Pure Water Soquel Project, by Brent Hodder, Ph.D. and Bryan Pratt, D.Cand.

Agency Collaboration & Community Support



CALIFORNIA DEPARTMENT OF WATER RESOURCES



AGREEMENT
BY AND BETWEEN SOQUEL CREEK WATER DISTRICT
AND THE CITY OF SANTA CRUZ
REGARDING SOURCE WATER, DESIGN, CONSTRUCTION, START-UP AND OWNERSHIP
OF
THE TERTIARY FACILITY COMPONENT OF THE PURE WATER SOQUEL PROGRAM

This AGREEMENT ("AGREEMENT") is entered into and made effective this 19 day of July 2019 (the "effective date"), by and between Soquel Creek Water District (DISTRICT) and the City of Santa Cruz, a municipal corporation ("CITY"), together sometimes referred to herein as the PARTIES.

RECITALS

A. The CITY owns and operates a regional wastewater treatment facility ("WWTF") that provides wastewater treatment and disposal services to the City of Santa Cruz, Santa Cruz County Sanitation District (including Live Oak, Soquel, Capitola and Aptos areas) and disposal services to the City of Scotts Valley; and

B. Wastewater generated by development in the service area of the DISTRICT is conveyed through facilities owned and operated by the Santa Cruz County Sanitation District to the CITY WWTF for treatment and disposal, making the CITY's wastewater facility a regional asset for the treatment of wastewater; and

C. The WWTF pumps approximately on average eight (8) million gallons per day of

**Community Water Plan and
Advanced Water Purification Project
Statements of Support**

I support the Community Water Plan and the long-range planning and action-oriented efforts by Soquel Creek Water District to create and maintain a safe, reliable and sustainable water supply for the community it serves and environmental stewardship of protecting the Santa Cruz Mid-County Groundwater Basin.

The Community Water Plan reinforces the District's commitment for continued water conservation and proactive groundwater management while recognizing that new sources of water are needed to protect groundwater resources from further seawater intrusion and meet the needs of our community.

I support the efforts of the District in evaluating and pursuing an Advanced Water Purification Project.

Provide us your name to be added to our official list of supporters. You will occasionally receive emails with program updates.


Name: John Hibble John Hibble

Signature: John Hibble John Hibble

Pure Water Soquel Consistently Makes Progress

The Project remains on-track going from technical feasibility to being on-line in eight years (2016-2024)

2016

- 
- Conducted
 - Public Input/Engagement
 - Technical Feasibility

2018

- Completed
- CEQA EIR
- Third-Party Independent Panel

2021

- Completed
- Land Acquisitions
- Partner Agreements
- Coastal Development Permit
- Design
- Procurement for 4 of the 5 elements
- Construction of the 3 wells

2022

- Underway:
- Construction of Pipeline Project & Treatment Project
- Procure and Construct Well Sites
- Permit Process with DDW & RWQCB

2024

- Goal:
- Project on-line and replenishing GW Basin 3-001
- Work towards SGMA mandate of region having sustainable water supply by 2040

In 2021: Celebrated Milestones and Going into Construction



Pure Water Soquel Seawater Intrusion Prevention Wells Project

SOQUEL CREEK WATER DISTRICT PUREWater Soquel

Groundbreaking at Monterey Ave. Site, Capitola, CA on February 9, 2021

Owner: Soquel Creek Water District
 Designer: Montgomery & Associates, Inc. with Water Systems Consulting
 Contractor: ZIM Industries
 Owner Advisor: Brown and Caldwell



Pure Water Soquel Conveyance Infrastructure Project

SOQUEL CREEK WATER DISTRICT PUREWater Soquel

Groundbreaking at California Street near Bay Street, Santa Cruz, CA on May 24, 2021

Owner: Soquel Creek Water District
 Design-Build Team: Garney Pacific with Kennedy Jenks
 Owner Advisor: Brown and Caldwell



Pure Water Soquel Treatment Facilities Project

SOQUEL CREEK WATER DISTRICT PUREWater Soquel

Groundbreaking at Chanticleer Property, Santa Cruz, CA on December 10, 2021

Owner: Soquel Creek Water District
 Design-Build Team: Black and Veatch Construction, Inc.
 Owner Advisor: Brown and Caldwell



In 2022... It's Construction...and More Construction

Seawater Intrusion and Prevention Wells and Monitoring Wells

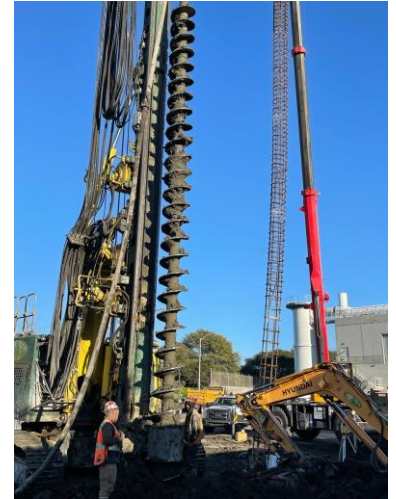
Capitola and Aptos

Becca- can you add some
pics (see location from
Mike Wademan's email)

Pipeline Installation in Santa Cruz, Live Oak, Soquel, Capitola, Aptos



Treatment Facilities Construction in Santa Cruz and Live Oak



Celebrating the Transformation of Water



State Water Resources Control Board (SWRCB) Chair Joaquin Esquivel



Traci Hart, SqCWD HR Mgr.



Dr. Tom LaHue (SqCWD President), Kent-Harris Repass (Congressman Panetta's Representative), Taj Dufour (SqCWD Engineering Mgr), and Kyle Graff (DDW Engr.)



Black and Veatch Construction Inc. Representatives



Dr. Bruce Jaffe, SqCWD Boardmember

These cards are in here

「THANK YOU」

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