# Turlock Subbasin Groundwater Sustainability Plan Community Workshop

Ceres Community Center April 18, 2018

### Overview

- Welcome
- Turlock Subbasin Groundwater Governance
- GSP Development Process and Engagement
- Poster Session (open-house format)

### Tonight's Objectives

- Outline the Groundwater Sustainability Plan (GSP) development <u>process</u>.
- 2. Identify specific GSP topics of most interest to stakeholders, while informing stakeholders of engagement opportunities within in the GSP process.

Turlock Subbasin Groundwater Governance







### **Turlock Subbasin Facts**

- Mix of cities, counties, irrigation districts, community services districts, water districts, county water districts and private landowners pump groundwater from the Subbasin.
- 347,000 acres, with irrigated crops (250,000 acres), nonirrigated areas (53,000 acres), and urban development (25,000 acres) as the predominant land uses.

### **Turlock Subbasin Facts**

- Groundwater supplies municipal, industrial, rural and agricultural demands of the region. Surface water from the Tuolumne River and, to a lesser extent, the Merced River, supplies a large portion of agricultural irrigation demands within the Subbasin.
- Deep percolation of irrigation water, via flood irrigation, is the largest inflow to the Subbasin and plays an important role in maintaining groundwater storage.



### **Turlock Subbasin Governance**



### Questions on Governance?

# GSP Development Process and Engagement

# May 31, 2017 Denair Workshops

#### • Goals

- 1. Update stakeholders on GSA formation activities
- 2. Gather best practices for stakeholder engagement

#### • By the Numbers

- 81 participants
- 26 stakeholder questions
- 60 'interested parties' e-mails gathered

# May 31, 2017 Denair Workshops

#### • General Takeaways

- Still interested in groundwater despite wet water year
- E-mail is preferred update format
- Workshop format enables conversation
- Large visuals (e.g. maps, charts) would be of help
- Lots of good questions, primarily about process and past/future decisions

# **Post-SGMA Outreach Events**

- Oct. 2015 TGBA Workshop (Ceres)
  - New law, timeline, process and early talks
- GSA public hearings (March 2017)
  - SGMA requirement
- May 31, 2017 TGBA Workshops (Denair)
  - GSAs have formed; communication preferences
- Tonight's Workshop
  - GSP process; poll stakeholders on GSP topics

# **Future Engagement Opportunities**

- Public workshops
- Technical workshops
- Board meetings (GSAs and TACs)
- Public hearings
- Written comment periods
- Listserv sign-ups/emails
- Social media (Twitter and Facebook)
- Website www.turlockgroundwater.org

# TurlockGroundwater.org

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West Turlock Groundwater Sustainability Agency Board	
> = WTSGSA Meeting - 3-1-18	
> = WTSGSA Meeting - 1-11-18	

- > = WTSGSA Meeting 12-14-17
- WTSGSA Meeting 9-7-17
- WTSGSA Meeting 6-1-17
- WTSGSA Meeting 3-2-17

# Social Media



Turlock Groundwater March 29 at 3:56pm · 🚱

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Interested in Turlock Subbasin groundwater? Join us April 18 for the first in a series of public meetings to engage local stakeholders in the development of a Groundwater Sustainability Plan (GSP) for the Turlock Subbasin. More info to come.



Turlock Groundwater @TurlockSubbasin Follow

Keeping groundwater management costs low for Turlock Subbasin stakeholders, especially for those in economically disadvantaged communities, is an important part of SGMA compliance.

**Turlock Groundwater** @TurlockSubbasin Elated that the Turlock Subbasin was awarded \$1 million in @CA\_DWR grant funding today to help us on our path to groundwater sustainability. water.ca.gov/-/media/DWR-We...

3:46 PM - 4 Apr 2018

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### Information Card Turlock Subbasin Community Workshop

#### I want to receive email notifications from Turlock Subbasin managers.

First & Last Name

email address



#### I have a comment/information to pass along to Turlock Subbasin managers.

First & Last Name (not required)

Comment

turlockgroundwater.org



y @TurlockSubbasin

# Components of a GSP: Steps Toward Sustainability

- Based on a strong foundation of scientific analysis of the Subbasin
- Informs sustainability goals
- Communication with stakeholders throughout the process

Plan Adoption / Implementation

**Monitoring Networks** 

**Management Actions and Analyses** 

Sustainability Goals and Criteria

Basin Setting (Hydrogeology, Groundwater Conditions, Water Budgets)

Plan Area (Physical Setting and Water Supply)

### What is Sustainability?

#### Five Sustainability Indicators for the Turlock Subbasin



Chronic lowering of water levels



Depletion of groundwater in storage

Degradation of groundwater quality



Land subsidence from groundwater pumping

Depletion of interconnected surface water affecting beneficial uses

# Each sustainability indicator is an <u>undesirable result</u> if determined to be "significant and unreasonable"

# Technical Analysis: Plan Area and Basin Setting

- What does the groundwater basin look like?
  - Physical setting, topography, geology, soils, hydrology, aquifers, basin geometry
- What are the current and historical groundwater conditions?
  - Groundwater occurrence, levels, flow, and quality; changes over time
- What are the inflows and outflows for the groundwater system?
  - Current and historical water budgets for the Subbasin
- What management and monitoring programs exist in the Subbasin and what improvements are required?
  - Compile data for analysis and address data gaps
  - Monitoring required to demonstrate future success



### **Overall Timeline** for Turlock Subbasin



### **Neighboring Critically Overdrafted Basins**

- Critically Overdrafted Basins to the south and west of the Turlock Subbasin
- GSPs for Critically Overdrafted Basins due 2020
- Turlock Subbasin GSP due 2022
- Turlock Subbasin required to coordinate the GSP analyses across the river boundaries
- Expedite technical analysis to allow for coordination



### Stakeholder Input 2018 - 2019



# Questions on GSP Process or GSP Outreach?

### **Poster Session**

# **POSTER SESSION**

#### • Four Stations

- 1. GSP Components
- 2. Finding Solutions
- 3. What Happens if Sustainability is a Struggle?
- 4. Community Impacts
- Listen, take handouts, ask questions, provide comments
- 10-minute rotations, but feel free to roam

### **Poster Session Wrap-up**

# What can I do now?

- Fill out information card
- Visit <u>turlockgroundwater.org</u>
- Follow us on social media
- Attend meetings
- Stay tuned for more!