



# Climate Change Plan

Napa Sanitation District

**Presented by:** Xavier Irias

# Purpose of Today's Briefing

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- Introduce team
- Present information about climate plan
- Seek Board direction regarding project scope



# Introductions

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**Dave Richardson, PE**  
Principal-in-Charge



**Xavier Irias, PE**  
Project Manager



**Katie Cole**  
Deputy Project Manager



# Climate Change Poses Risks to NapaSan

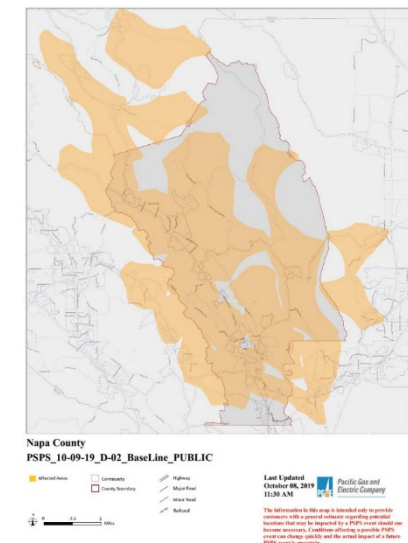
- Sea-level rise → River level rise
- Severe wet weather → more winter flows, higher river levels
- Wildfires → PSPS
- Warmer weather → possible treatment impacts
- Groundwater level changes → depends on direction & magnitude of change



Napa River, Feb 2019



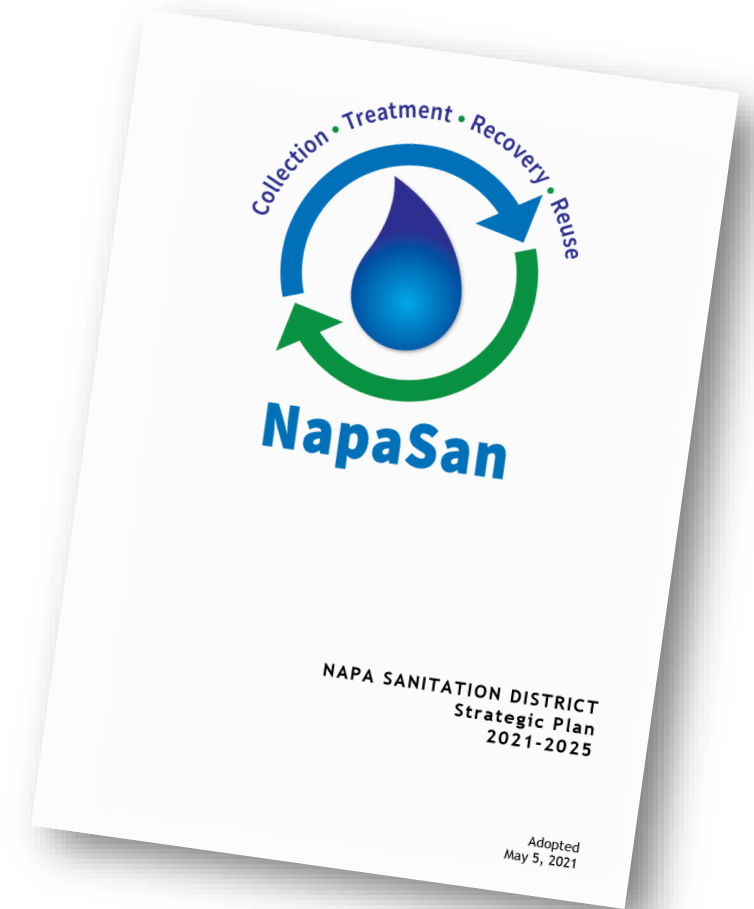
October 2020



October 2019 PSPS

# Why a Plan? Why Now?

- Sea level rise, king tides, PSPS are initial climate change concerns impacting operations and access
- Strategic Plan Goal 3C directs staff to prepare a climate change plan by June 30, 2022 “to evaluate the impacts of climate change on operations, programs, and facilities”
- A successful plan will include a comprehensive risk assessment and a strong business case for the resulting actions





# Plan Will Not Duplicate Other Efforts

- Plan will build off what has already been done
  - NapaSan Master Plans
  - PG&E energy assessment
  - State/regional reports
- Napa County CAP
  - NapaSan's will tailor to specific needs, but can also support County work by verifying assumptions



# Systems Covered Under Plan



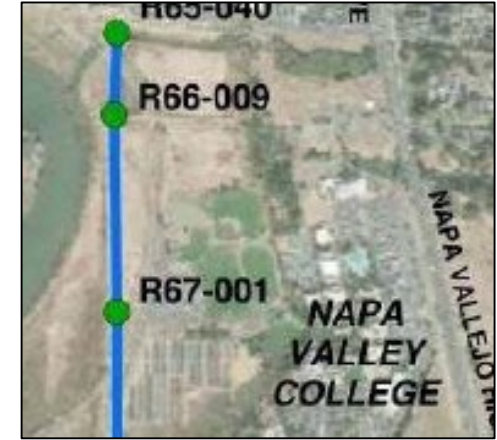
Treatment Plant



Lift Stations



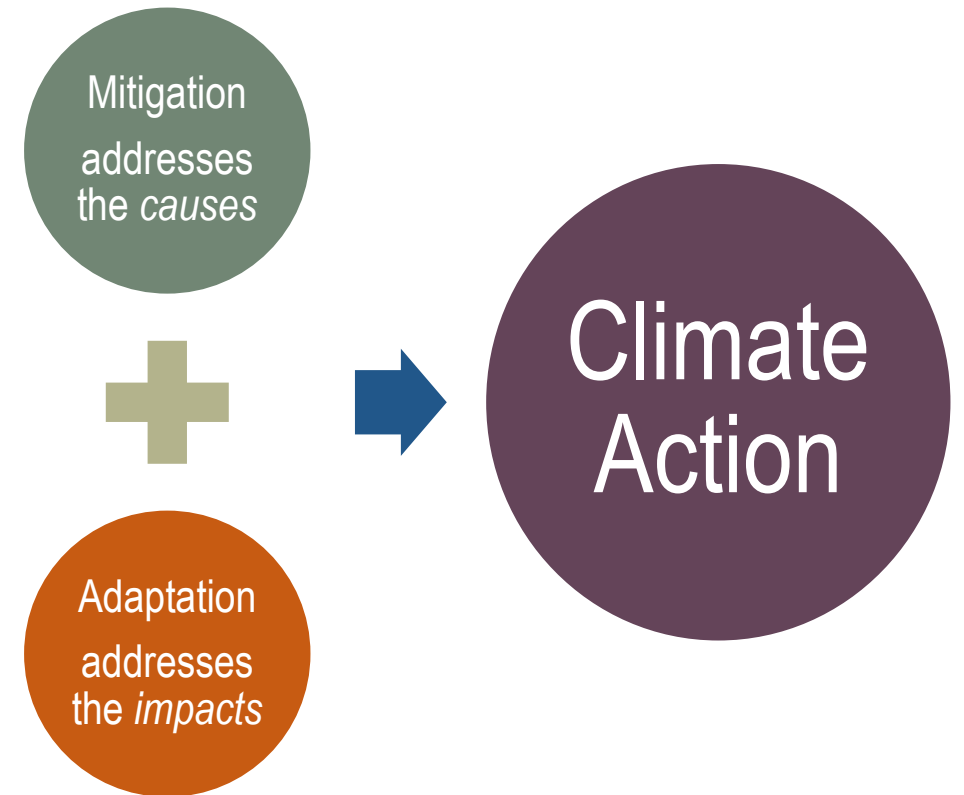
Recycled Water  
System



Collection System

# Potential Plan Actions

- Mitigation = actions that contribute to slowing climate change:
  - Reductions in energy use
  - Cleaner engines
  - Green energy
- Adaptation = actions that help you better prepare for climate change impacts:
  - Walls and levees
  - Infrastructure relocation
  - Access improvements
  - Backup power enhancements





# Potential Scoping Items

Darker items indicate  
baseline scope items

A: Identify Data Gaps/Perform Staff Interviews

B: Conduct Risk Assessment

C: Develop Adaptation Actions; With Cost Information

D: Conduct GHG Inventory Analysis

E: Set GHG Goals/Develop Mitigation Actions; With Cost Information

F: Develop Phasing Plan for All Climate Actions

G: Develop Tracking Dashboards

H: Board Updates

I: Develop Funding/Financing Plan

Mid-colored items  
indicate optional, but  
recommended items

Lighter items indicate  
above & beyond  
scope items

# Thank you! Questions?

