

ADAPTING TO SEA LEVEL RISE IN THE SOUTH COAST



SEA CHANGE
SAN MATEO COUNTY



SAN MATEO
RESOURCE
CONSERVATION
DISTRICT



Office of Sustainability Mission

We are committed to building a sustainable community that fulfills the needs of the present and future.



Office of Sustainability Highlights

- Climate Readiness
- Electrification, Energy Efficiency
- Local Water Quality
- Alternative Transportation
- Home For All
- Organic Waste Diversion

SAN MATEO COUNTY, CA



Community Climate Action Plan

Final Public Comment Period Closes April 29

1. [Online interactive open house](#): make comments directly on proposed actions
2. Survey
3. [Live virtual event tomorrow April 14th at 6pm](#) focused on Climate Beneficial Agriculture (Spanish and English)



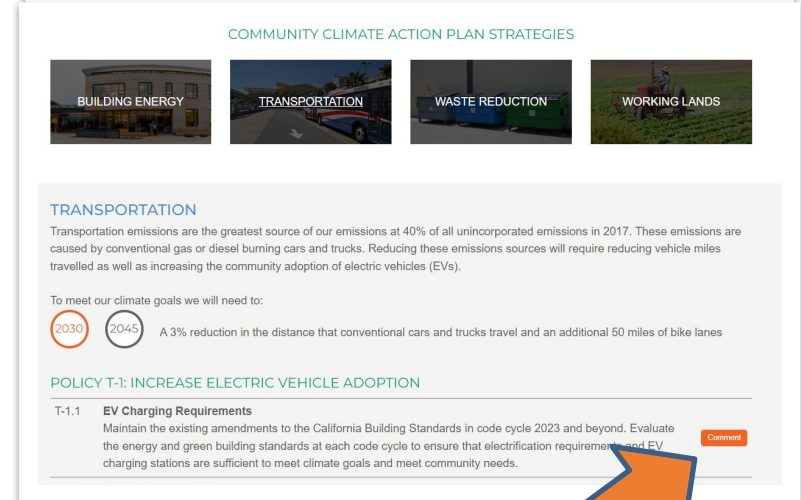
OFFICE OF SUSTAINABILITY
COUNTY OF SAN MATEO

Sustainability Matters

Live conversation with local specialists on how farmland acts as a carbon sink and so much more to reduce impacts of climate change.

Facebook YouTube Twitter @SustainSMC
Thursday, April 14th, 2022 | 6 PM

 Avana Andrade Office of Sustainability	 Adria Arko Resource Conservation District
 Ryan Casey Blue House Farms	 Jonathan Wachter Carbon Cycle Institute
 Jack Steinmann Office of Sustainability	



COMMUNITY CLIMATE ACTION PLAN STRATEGIES

- BUILDING ENERGY
- TRANSPORTATION
- WASTE REDUCTION
- WORKING LANDS

TRANSPORTATION

Transportation emissions are the greatest source of our emissions at 40% of all unincorporated emissions in 2017. These emissions are caused by conventional gas or diesel burning cars and trucks. Reducing these emissions sources will require reducing vehicle miles travelled as well as increasing the community adoption of electric vehicles (EVs).

To meet our climate goals we will need to:

- 2030
- 2045

A 3% reduction in the distance that conventional cars and trucks travel and an additional 50 miles of bike lanes

POLICY T-1: INCREASE ELECTRIC VEHICLE ADOPTION

T-1.1 EV Charging Requirements

Maintain the existing amendments to the California Building Standards in code cycle 2023 and beyond. Evaluate the energy and green building standards at each code cycle to ensure that electrification requirements and EV charging stations are sufficient to meet climate goals and meet community needs.

[Comment](#)

Comment on actions here!

CCAP Project Timeline and Next Steps

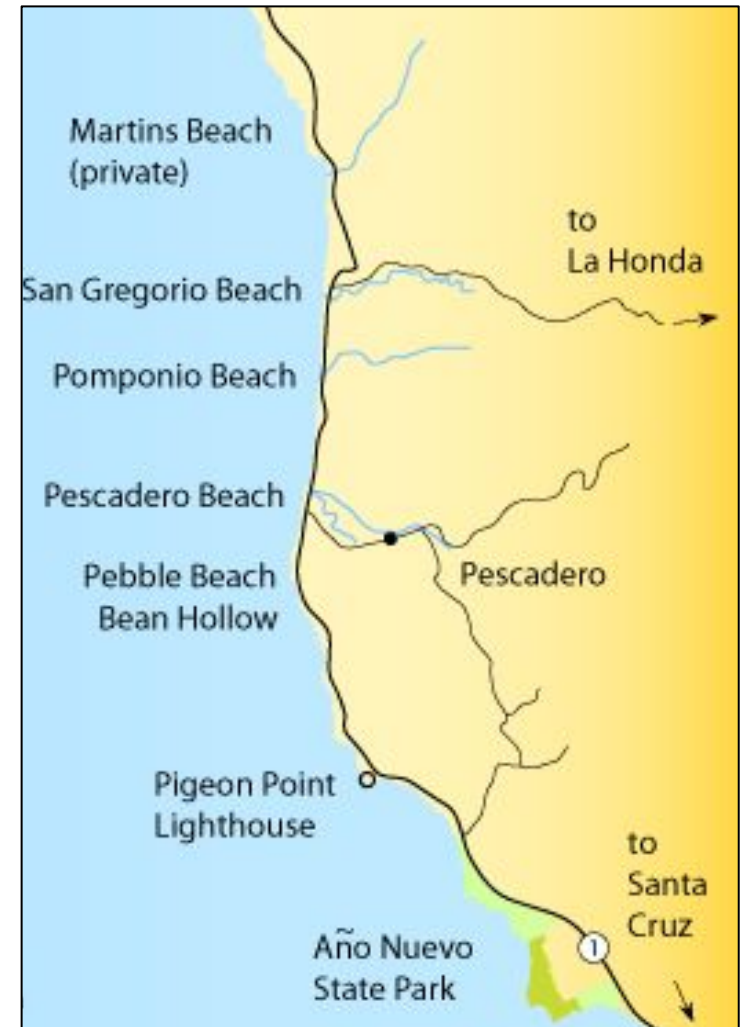


Next steps:

- March 30, 2022 – April 29, 2022: Public review period
- April 27, 2022: San Mateo County Planning Commission study session
- May 25, 2022: San Mateo County Planning Commission
- Summer 2022: Presentation to County of San Mateo County Board of Supervisors to consider for adoption

South Coast Sea Level Rise Vulnerability Assessment and Adaptation Report

- Analyzed flood and erosion impacts to structures, roads, coastal access, and agricultural parcels using 4 SLR scenarios
- Provides range of potential adaptation strategies
- Study Area: southern Half Moon Bay to south county line



Stakeholder and Community Engagement

2019 - 2021

2021 – 2022

Project
Scoping

Mapping

Draft
Report

Public
Review

Final
Report

- **State agency outreach** (March-May 2021)
- **Agricultural stakeholder outreach** (March-May 2021)
- **Community Meeting #1** (July 2021)

- **Community Meeting #2** (July 2021)

- **Public review of draft and webinar** (TBD)

Check out our Story Map

Protecting the South Coast from Sea Level Rise

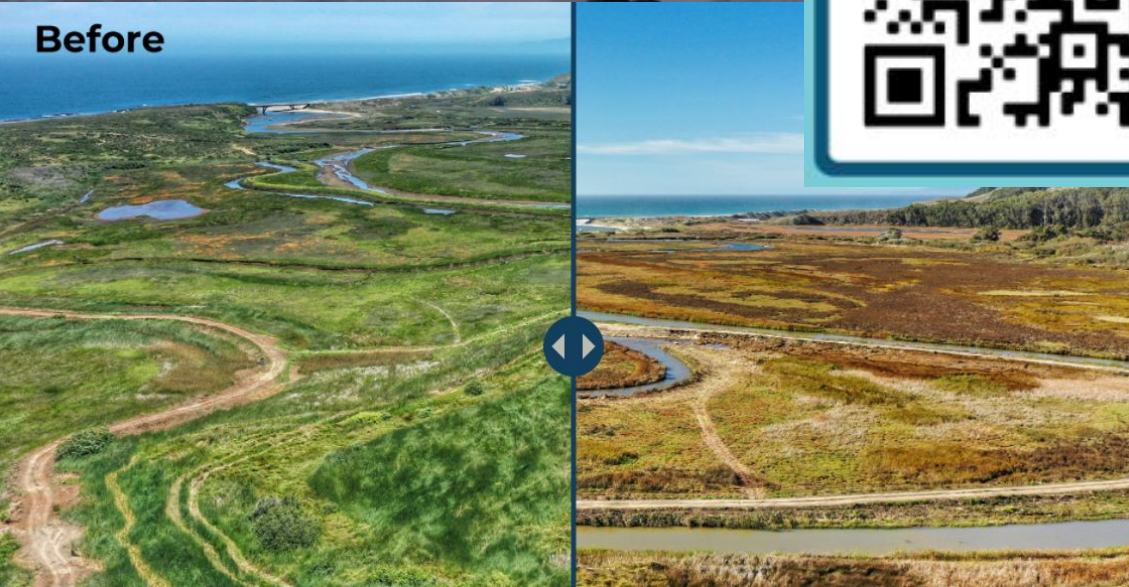
Learn about the impacts of sea level rise to the South Coast of San Mateo County and explore the many ways to protect our communities.

La versión en español se publicará próximamente
January 27, 2022

English: qrco.de/SCslrSM
Spanish: qrco.de/EspSM



Before



Findings: *Highway 1*

Impacts	Potential Adaptation Actions
<ul style="list-style-type: none">• Erosion impacts projected to heighten over time, undermining integrity of roadway• Key concern areas are near Bean Hollow, Pomponio, and Pescadero Beach	<ul style="list-style-type: none">• Complete site-specific assessments to inform project planning and long-term adaptation planning

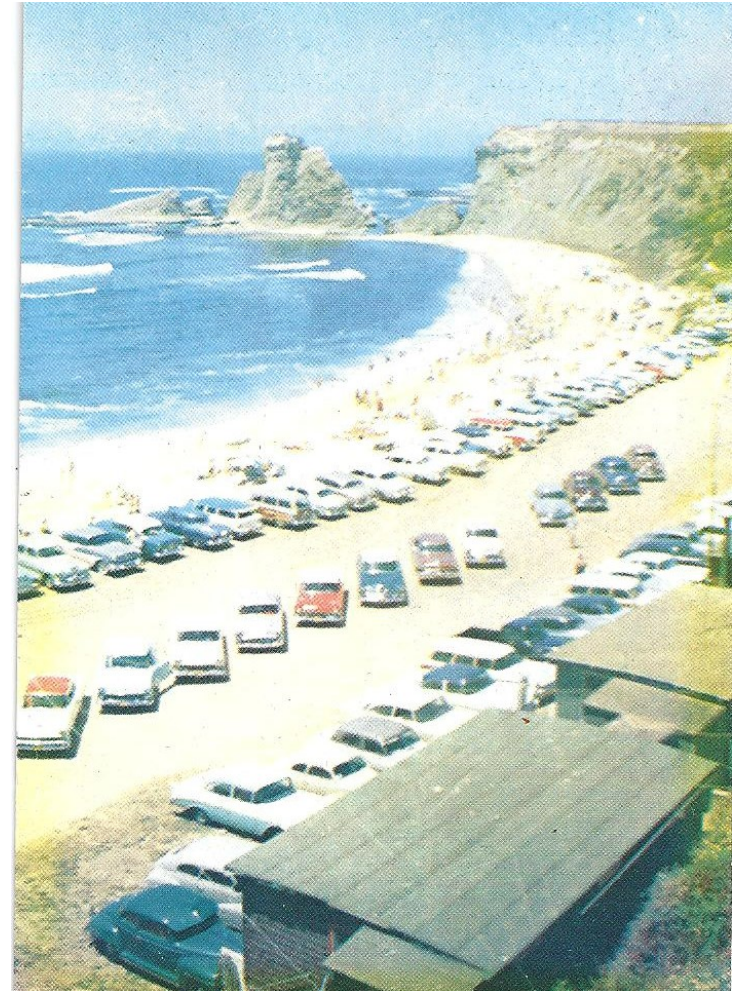
Findings: *Coastal Access*

Impacts	Potential Adaptation Actions
<ul style="list-style-type: none">• Coastal access points, beaches, trails, parking and restrooms are already impacted by flooding and erosion, and will be further impacted with SLR	<ul style="list-style-type: none">• Complete site-specific vulnerability assessments to inform project planning and long-term adaptation planning• Use nature-based systems to strengthen the shoreline <p data-bbox="1033 1163 1738 1213">www.parks.ca.gov/SeaLevelRise</p>

Findings: *Coastal Communities*

Impacts

- **Martin's Beach** to be impacted by increased coastal flooding with limited long-term effectiveness of armoring
- **Pescadero** projected to be impacted by increased flooding, impacting homes, agricultural land, and transportation access



Key Findings: *Coastal Communities*

Potential Adaptation Options

Hazard Reduction

- Plan and implement more creek and floodplain restoration projects
- Dune/habitat restoration to reduce erosion and/or flooding

Community Resilience

- Address underlying community stressors (e.g., vulnerability reduction)

Knowledge Building

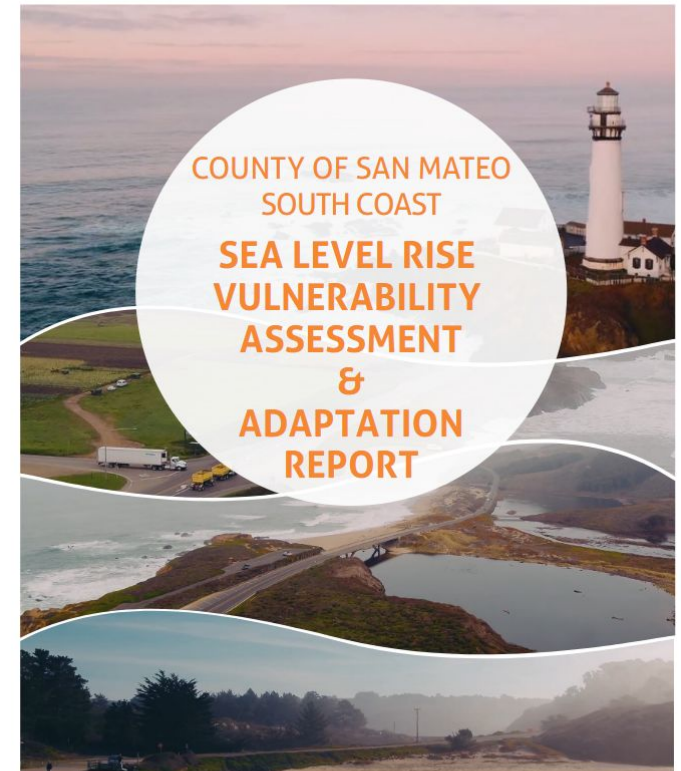
- Study sea level rise effects on groundwater
- Plan for and test flood- and saltwater- resistant crops

Impact Reduction

- Storm proof and elevate structures
- Identify and relocate hazardous materials
- Elevate, widen, or re-align roads
- Use agricultural practices that build soil health and productivity

Next Steps

- Encourage use of the project Story Map in English: qrco.de/SCslrSM and Spanish: qrco.de/EspSM
- Release Vulnerability Assessment and Adaptation Report for public review
- Assess risk reduction project opportunities to integrate into current planning efforts



SEA-CHANGE
SAN MATEO COUNTY



SAN MATEO
RESOURCE
CONSERVATION
DISTRICT

integral

THANK YOU FOR LISTENING!

Public draft for review this Spring.

Learn more about this project at:

seachangesmc.org/current-efforts/south-coast/

CONTACT US:

amiscoltacameron@smcgov.org

What the study looked at

- Flooding and erosion impacts based on four sea level rise (SLR) scenarios
 - 0 SLR (Baseline) and 100-year storm
 - 0.8 feet SLR (2030) and 100-year storm
 - 1.6 feet SLR (2030-2060) and 100-year storm
 - 4.9 feet SLR (2060-2100) and 100-year storm
- Model produced by Integral Consulting, Inc. mapped areas affected by flooding and/or erosion