

City of Coronado



Sea Level Rise Vulnerability and Adaptation Plan

June 2020



Background



November 2018: City applies for Caltrans Adaptation Planning Grant for Sea Level Rise Vulnerability & Adaptation Plan

November 2019: Caltrans awards \$221,000 grant. \$28,662 City match required

March 2020: City releases RFQ for consultant support

May 2020: Six consultant proposals received





Overview & Purpose

SLR Vulnerability & Adaptation Plan

- Forecast projected sea level rise in Coronado through 2100;
- Inform City Council, commissions, and citizens to aide land use and capital investment decisions;
- Develop a menu of potential adaptation strategies to mitigate effects of SLR;
- Complement City's Climate Action Planning efforts;

Plan will be an informational document. Will not impose new regulations or obligations for City





Project Approach

1. Prepare SLR Vulnerability Report

- Public and stakeholder outreach
- City Council check-ins

2. Prepare SLR Adaptation Plan

- Public and stakeholder outreach
- City Council check-ins

3. Final, consolidated report presented to council



SLR Vulnerability Report



SLR Modeling and Mapping

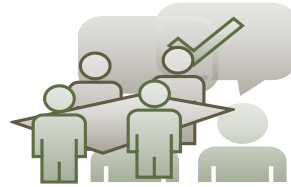
- Modeling based on best available science & data
- Review of other regional SLR studies (SANDAG, Port, SD, IB, etc.)
- Forecast based on low, med, high SLR scenarios
- Forecast over 80-year time horizon (through 2100)
- Evaluate various coastal hazards (coastal flooding, rising tides, storm surge, erosion)
- Inventory vulnerable assets (infrastructure, facilities, parks, private properties, etc.)
- Develop cost estimates for replacement value of vulnerable assets



SLR Vulnerability Report



SLR Modeling and Mapping



Public and Stakeholder
Outreach

PRESENT MAPPING, VULNERABLE ASSETS

- **Workshops (in-person and/or virtual)**
- **Public surveys**
- **Focus groups**
 - **Residents**
 - **Property owners**
 - **Business owners**
 - **Partner agencies (Navy, Port, State Parks, etc.)**
 - **Interest groups**



SLR Vulnerability Report



SLR Modeling and Mapping

Public and Stakeholder
Outreach

City Council Check-in

- **Present mapping**
- **Identify vulnerable assets**
- **Share public feedback**
- **Request direction to prepare draft SLR Vulnerability Report**

SLR Vulnerability Report



SLR Modeling and Mapping



Public and Stakeholder
Outreach



City Council Check-in



Draft SLR
Vulnerability
Report

PREPARE DRAFT REPORT

- Narrative
 - Maps
 - Vulnerable Assets
 - Estimated asset valuations
- Publicize draft report

SLR Adaptation Plan



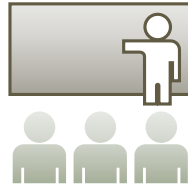
Research and Prepare
Adaptation Measures

RESEARCH AND PREPARE ADAPTATION MEASURES

- **Develop draft menu of potential SLR adaptation measures**
- **Research other agency's adaptation measures**
- **"Hard" and "Soft" adaptation measures**
 - **Hard e.g.: coastal armoring, sea walls, revetments, etc.**
 - **Soft e.g.: facility retrofits, zoning/flood regulations, beach nourishment, managed retreat, etc.**



SLR Adaptation Plan



Research and Prepare
Adaptation Measures

Public and Stakeholder
Outreach

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SLR Adaptation Plan



Research and Prepare
Adaptation Measures

Public and Stakeholder
Outreach

City Council Check-in

- **Present draft menu of adaptation measures**
- **Share public feedback**
- **Request direction to prepare draft SLR Adaptation Plan**

SLR Adaptation Plan



Research and Prepare
Adaptation Measures

Public and Stakeholder
Outreach

City Council Check-in

Prepare Draft Adaptation Plan

PREPARE DRAFT REPORT

- Narrative
- Adaptation Measures Menu
- Cost estimates
- Publicize draft plan



SLR Vulnerability & Adaptation Plan

Consolidated SLR Vulnerability Report and Adaptation Plan

- Present draft to City Council
- Release for public review/comment
- City Council adoption

Tentative Schedule

- | | |
|---------------------------------------|-------------------|
| • City Council contract award: | August 18, 2020 |
| • Draft SLR Vulnerability Report: | March 2021 |
| • Draft SLR Adaptation Plan: | August 2021 |
| • CALTRANS Grant requires completion: | February 28, 2022 |



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