


COUNTY OF SAN MATEO
EMERGENCY MANAGEMENT

# Local Hazard Mitigation Plan

*San Mateo County, California*

## OneShoreline Annex

2026

DRAFT

smcgov.org/dem/multijurisdictional-local-hazard-mitigation-plan

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This Annex details the hazard mitigation elements specific to the San Mateo County Flood and Sea Level Rise Resiliency District (OneShoreline), a participating jurisdiction of the 2026 San Mateo County Local Hazard Mitigation Plan (LHMP or the Plan) update. This Annex is not intended to be a standalone document but supplements the information contained in **Volume 1 (Countywide Planning Elements)**. Therefore, all sections of **Volume 1**, including the planning process, hazard identification and risk assessment, mitigation strategy (includes mitigation goals and objectives), and plan maintenance, apply to and were met by OneShoreline. This Annex provides additional information specific to the District, with a focus on providing further details on the hazard risk assessment and mitigation strategy (i.e., mitigation actions) for this community.

# 1. HAZARD MITIGATION LOCAL PLANNING TEAM

The following individuals have been identified as the OneShoreline Local Planning Team for the 2026 LHMP. These individuals participated in all aspects of the planning process and developed a risk and vulnerability assessment, capability assessment, and mitigation strategy (including mitigation actions) specific to the jurisdiction.

| Name | Title | Department |
|---|---|---|
| Summer Bundy | Director of Projects | OneShoreline |
| Stephanie Lau | Grant and Communications Advisor | OneShoreline |
| Jonathan Perisho | Project Manager | OneShoreline |
| Len Materman | Chief Executive Officer | OneShoreline |
| Clare Keating | Project Manager | OneShoreline |

# 2. JURISDICTION PROFILE

The San Mateo County Flood and Sea Level Rise Resiliency District, also known as OneShoreline, is a countywide special district established by State legislation (Assembly Bill 825, Mullin, 2019) as the first independent government agency in California dedicated to addressing the impacts of flooding from extreme storms, sea level rise, groundwater rise, and coastal erosion. To develop transformative solutions, OneShoreline takes a holistic approach to the:

- **Threats:** OneShoreline focuses on the singular and combined impacts of water-related hazards (sea level rise, extreme storms, and coastal erosion).
- **Objectives:** OneShoreline implements multi-benefit solutions that address these threats as well as enhance the environment, recreational opportunities, and quality of life within surrounding communities.
- **Geography:** OneShoreline is the vehicle through which San Mateo County and its cities can align efforts across jurisdictional lines and within the context of an entire watershed or regional shoreline. OneShoreline has broad authorities to plan, design, construct, operate, and maintain flood management and sea level rise protection infrastructure; acquire property and rights-of-way; issue bonds; levy taxes, assessments, and property-related fees; enter into agreements with other agencies; and undertake any actions necessary to protect life, property, and natural systems

from flooding. OneShoreline encompasses all territory within San Mateo County and can establish geographic zones and subzones to implement specific projects that benefit particular areas.

## 2.1. Brief History

In 1959, state legislation established the San Mateo County Flood Control District to address flooding in flood-prone areas (flood zones) across the County. Over the following decades, the need for comprehensive flood and sea level rise planning became clear. In 2015, the County's Civil Grand Jury released the report "Flooding Ahead: Planning for Sea Level Rise," recommending a single countywide organization to lead sea level rise planning. The following year, the County's Department of Public Works created a Flood Resilience Program and signed Memoranda of Understanding to plan three (3) potential projects: Bayfront Canal/Atherton Channel, Belmont Creek, and Navigable Slough.

In March 2018, the City/County Association of Governments (C/CAG) held the "Floods, Droughts, Rising Seas, Oh My!" water summit, where Congresswoman Jackie Speier highlighted the critical need for a countywide agency to address flooding, sea level rise, and coastal erosion across jurisdictional boundaries. That April, the C/CAG Countywide Water Coordination Committee developed a proposal recommending that new state legislation expand the mission and geographic reach of the existing Flood Control District. After Assembly Bill 825 (Mullin) was signed into law in September 2019, OneShoreline officially opened its doors on January 1, 2020, to coordinate planning and implementation of flood protection projects throughout San Mateo County.

## 2.2. Governing Body Format

OneShoreline is governed by a seven (7) member Board of Directors established under AB 825. The Board comprises five (5) City Council members and two (2) County Supervisors serving staggered four (4) year terms. C/CAG appoints five (5) City Council members representing geographic areas across the County (one (1) at-large member, and one (1) each from the northern, central, southern, and coastal areas). The San Mateo County Board of Supervisors appoints two (2) members, one (1) from the coastal area and one (1) at-large. Board members serve without compensation but receive reimbursement for expenses incurred in performing their duties. This governance structure became effective on January 1, 2020, replacing the original structure in which the County Board of Supervisors served as the governing body of the 1959 Flood Control District.

## 2.3. Population

San Mateo County's population is expected to grow in the coming years; calculations made by the Association of Bay Area Governments (ABAG) and the Plan Bay Area 2050 project an increase of about 37% in the number of households from 288,000 (2023) to 394,000 (2050).[1] The convergence of this population growth with the increasing impacts of climate change only exacerbates existing exposure and vulnerability in San Mateo County. These factors are expected to increase demand for FSLRRD's services and will continue to define its work in pursuing climate resilience.

[1] Association of Bay Area Governments. (2023). Plan Bay Area 2050 : San Mateo County Factsheet. Retrieved from https://planbayarea.org/sites/default/files/documents/pba50_plus_san_mateo_county_fact_sheet.pdf?cb=7d7bef44.

## 2.4. Assets

**Table 1** summarizes the District's critical assets and their values.

**Table 1. San Mateo County Flood and Sea Level Rise Resilience District Assets**

| Asset | Value |
|---|---|
| ***Property*** | |
| **0.07** Acres of Land *(APN 093-330-020/030)* | $703,000 |
| Easement *(APN 015-115-350)* | $19,700 |
| Easement (Spruce to San Mateo Channel Improvement) | $72,700 |
| Restated and Amended Easement Agreement with Cargill, Inc. for the Bayfront Canal and Atherton Channel Flood Management and Restoration Project | $100,000 |
| Drainage Easement Agreement with Cargill, Inc. for the Bayfront Canal and Atherton Channel Flood Management and Restoration Project | $100,000 |
| **TOTAL** | **$995,400** |
| ***Equipment*** | |
| Colma Creek Open Channel Capital Improvements | $16,600,000 |
| Colma Creek Culvert/Pipeline Capital Improvements | $10,100,000 |
| Bayfront Canal and Atherton Channel Flood Management and Restoration Project | $7,800,000 |
| **9** Stream Gauges *(**7** operational and **4** under installation)* | $540,000 |
| **TOTAL** | **$35,040,000** |
| ***Critical Facilities and Infrastructure*** | |
| Walnut Pump Station *(San Bruno Creek Flood Control Zone)* | $6,000,000 |
| Angus Pump Station *(San Bruno Creek Flood Control Zone)* | $5,000,000 |
| San Bruno Creek Tide Gate Structure *(San Bruno Creek Flood Control Zone)* | $3,000,000 |
| **TOTAL** | **$14,000,000** |

# 3. CHANGES IN DEVELOPMENT

California Law requires counties and cities to prepare and adopt a General Plan, a comprehensive long-range plan to guide community development. The General Plan must contain seven (7) state-mandated elements – land use, circulation, housing, conservation, open space, noise, and safety – and may contain additional elements as a jurisdiction sees fit. Counties and cities that have identified disadvantaged communities must also address environmental justice in their general plans, including air quality. Additionally, the General Plan must comprise an integrated and internally consistent set of goals, policies, and implementation measures.

Each municipality in San Mateo County has its own land use plan as part of the General Plan, while unincorporated land is used primarily for resource management. Areas targeted for future growth and development have been identified across San Mateo County. Significant residential and non-residential development is expected, driven by the growing establishment of technology companies throughout the County. While coastal communities will experience some degree of future exposure based on anticipated land use, most of the future impact will be in bayside communities.

San Mateo County contains several Coastal Zones under the jurisdiction of the California Coastal Commission. The California Coastal Act requires that local governments develop Local Coastal Plans (LCP) to carry out Coastal Act policies at the local level. LCPs are land use planning documents that lay out a framework for development and coastal resource protection within a city or County's coastal zone.

OneShoreline's jurisdiction covers the entire San Mateo County across jurisdictional boundaries. In the past five (5) years, OneShoreline has advanced and completed several notable projects. Additional gauges were installed throughout the County as part of the Flood Early Warning System expansion, thereby increasing the System's vulnerability to dam failure, earthquake, flood, landslide, severe weather, tsunami, and wildfire. In addition, maintenance work was performed on Colma Creek, San Bruno Creek, San Francisquito Creek, Belmont Creek, and Atherton Channel, thereby reducing the vulnerability of these assets to flood and severe weather. Furthermore, the Bayfront Diversion was completed in 2023 and has reduced the vulnerability of the area to flooding and severe weather. **Table 2** outlines the projects that were advanced or completed over the past five (5) years.

**Table 2. Advanced and Completed Projects**

| Project | Description |
|---|---|
| ***Advanced*** | |
| Countywide Flood Early Warning System | Upgraded and expanded the Region's flood warning system of rainfall and stream monitoring stations and signal repeaters throughout the County for emergency responders and the general public, as well as administered a publicly accessible flood monitoring webpage. |
| Belmont Creek Stormwater Detention and Creek Restoration Project | Addresses severe erosion, bank failure, and incessant downstream flooding along the reach within Twin Pines Park by placing a stormwater capture facility beneath the parking lot of Twin Pines Park. |
| Millbrae and Burlingame Shoreline Resilience Project | Protects Millbrae and Burlingame from coastal and inland flooding and improves shoreline trails and ecosystems. |
| Brisbane Shoreline Resilience Plan | Reduces flood risk from sea level rise while protecting community assets, public access, natural habitats, and critical infrastructure along Brisbane's 1.5-mile shoreline on the Bay. |
| Colma Creek Projects | Both the Colma Creek Watershed Plan and the Lower Colma Creek Resilience Projects have the shared objectives of improving flood resilience, water quality, ecology, public access and safety, and economic development. |
| Redwood Shores Sea Level Rise Protection Project | Protects against flood risk and projected future sea level rise by modifying the levee system around Redwood Shores. |
| Routine Maintenance Program for Bayside Creeks | Debris and sediment removal program for San Bruno Creek, Belmont Creek, Cordilleras Creek, and Atherton Channel. |

| Project | Description |
|---|---|
| Public Infrastructure Guidance | Provides guidance to help local agencies plan, design, and maintain infrastructure that can perform reliably under changing climate conditions. |
| San Bruno Creek Resilience Project | Protects the Belle Air neighborhood of San Bruno from repeated flooding. |
| ***Completed*** | |
| Pillar Point Harbor Area Shoreline Management Study | Developed preliminary assessments of shoreline management approaches to address coastal erosion at Pillar Point Harbor. |
| Planning Policy Guidance | Developed Planning Policy Guidance to plan land use, private development, and public infrastructure for future climate-driven conditions and with regional resilience projects. |
| Bayfront Canal and Atherton Channel Flood Protection and Ecosystem Restoration Project | Protects five (5) mobile home parks, other housing, and businesses from frequent, damaging flooding. |

During the next five (5) years, OneShoreline will continue advancing projects. Additionally, more rain and/or stream gauges may be installed to expand the Countywide Flood Early Warning System. Maintenance work will also likely occur on Colma Creek, San Bruno Creek, San Francisquito Creek, Belmont Creek, and Atherton Channel in the next five (5) years.

## 3.1. Changes in Priority

OneShoreline's overall hazard mitigation priorities have not changed significantly since the last Plan update. However, OneShoreline's priorities have received additional focus in the County due to new State legislation over the past five (5) years. California Senate Bill 272 (Laird) (SB 272) mandates that local governments within California's coastal zone develop sea level rise plans by 2034, aiming to enhance coastal resilience against climate change impacts. Following SB 272, the San Francisco Bay Conservation and Development Commission (BCDC) developed the Regional Shoreline Adaptation Plan (RSAP) as a region-wide plan for the Bay shoreline. The RSAP, required by SB 272, guides the creation of coordinated, locally planned adaptation strategies based on a regional vision (the One Bay Vision), identification of Strategic Regional Priorities, and the creation of Subregional Shoreline Adaptation Plan Guidelines. OneShoreline will work within RSAP to develop a coordinated approach to adapt to rising sea levels along the Bay shoreline.

# 4. CAPABILITY ASSESSMENT

Federal regulations require hazard mitigation plans to identify goals for reducing long-term vulnerabilities to the identified hazards in the planning area (Section 201.6(c)(3)(i)). A critical step in developing specific hazard mitigation actions and projects is assessing existing authorities, policies, programs, and resources and capabilities, and using or modifying local tools to reduce losses and vulnerability from profiled hazards.

A capability assessment was conducted for OneShoreline's authorities, policies, programs, and resources. Goals and mitigation actions were developed using input from this assessment.

The Local Planning Team assessed OneShoreline's capabilities that can contribute to the reduction of long-term vulnerabilities to hazards. The capabilities include the following categories:

- Planning and Regulatory Capabilities
- Administrative and Technical Capabilities
- Fiscal Capabilities
- Education and Outreach Capabilities

Additionally, ways to expand and improve these existing policies and programs to integrate hazard mitigation into the District's day-to-day activities were considered.

# 4.1. Planning and Regulatory Capabilities

**Table 3** includes local ordinances, policies, and laws to manage growth and development (e.g., land use plans, capital improvement plans, transportation plans, emergency preparedness and response plans, building codes, and zoning ordinances). OneShoreline is a non-regulatory agency and does not have the authority to mandate or enforce regional policies (e.g., land use regulations, building codes). The District's primary role is to coordinate cross-jurisdictional projects and provide technical guidance on sea level rise, tidal flooding, coastal erosion, and combined tidal and riverine flooding to local governments within San Mateo County.

**Table 3. Planning and Regulatory Capabilities**

| Capability Category | Yes/No | Authority *(local, county, state, federal)* | Responsible Department/ Agency | Code Citation and Comments *(e.g., Code Chapter, name of plan, explanation of authority, etc.)* |
|---|---|---|---|---|
| ***Planning Capacity*** | | | | |
| Comprehensive Plan / General Plan | Yes | County | OneShoreline | Planning Policy Guidance (2023) |
| Capital Improvement Plan | No | n/a | n/a | n/a |
| Floodplain Management / Basin Plan | Yes | County | OneShoreline | OneShoreline addresses flooding impacts in San Mateo County, including sea level rise, tidal flooding, coastal erosion, and combined tidal and riverine flooding. |
| Stormwater Management Plan | No | n/a | n/a | n/a |
| Open Space Plan | No | n/a | n/a | n/a |
| Stream Corridor Management Plan | Yes | County | OneShoreline | OneShoreline addresses flooding impacts in San Mateo County, including sea level rise, tidal flooding, coastal erosion, and combined tidal and riverine flooding. |

| Capability Category | Yes/No | Authority *(local, county, state, federal)* | Responsible Department/ Agency | Code Citation and Comments *(e.g., Code Chapter, name of plan, explanation of authority, etc.)* |
|---|---|---|---|---|
| Watershed Management or Protection Plan | Yes | County | OneShoreline | Colma Creek Watershed Plan (Under Development)<br>Belmont Creek Watershed Management Plan (2019) |
| Economic Development Plan | No | n/a | n/a | n/a |
| Comprehensive Emergency Management Plan | No | n/a | n/a | n/a |
| Emergency Operations Plan | No | n/a | n/a | n/a |
| Evacuation Plan | No | n/a | n/a | n/a |
| Post-Disaster Recovery Plan | No | n/a | n/a | n/a |
| Transportation Plan | No | n/a | n/a | n/a |
| Strategic Recovery Planning Report | No | n/a | n/a | n/a |
| Climate Adaptation Plan | Yes | County | OneShoreline | OneShoreline addresses flooding impacts in San Mateo County, including sea level rise, tidal flooding, coastal erosion, and combined tidal and riverine flooding. |
| Resilience Plan | Yes | County | OneShoreline | Brisbane Shoreline Resilience Plan (Under Development) |
| Flood Emergency Action Plans | Yes | Local | OneShoreline | Bayfront Canal/Atherton Channel Emergency Action Plan<br>Belmont Creek Emergency Action Plan<br>Navigable Slough/lower Colma Creek/ lower San Bruno Creek Emergency Action Plan |
| ***Regulatory Capability*** | | | | |
| Building Code | No | n/a | n/a | Regulated by each municipality and the County |
| Zoning Code | No | n/a | n/a | Regulated by each municipality and the County |
| Subdivision Code | No | n/a | n/a | Regulated by each municipality and the County |
| Flood Damage Prevention Ordinance | No | n/a | n/a | Regulated by each municipality and the County |
| Cumulative Substantial Damage Ordinance | No | n/a | n/a | n/a |
| Freeboard | No | n/a | n/a | n/a |

| Capability Category | Yes/No | Authority *(local, county, state, federal)* | Responsible Department/ Agency | Code Citation and Comments *(e.g., Code Chapter, name of plan, explanation of authority, etc.)* |
|---|---|---|---|---|
| Growth Management Ordinance | No | n/a | n/a | Regulated by each municipality and the County |
| Site Plan Review | No | n/a | n/a | n/a |
| Stormwater Management Ordinance | No | n/a | n/a | n/a |
| Municipal Separate Storm Sewer System (MS4) | No | n/a | n/a | n/a |
| Natural Hazard Ordinance | No | n/a | n/a | n/a |
| Post-Disaster Recovery Ordinance | No | n/a | n/a | n/a |
| Real Estate Disclosure Requirement | No | n/a | n/a | n/a |

## 4.2. Administrative and Technical Capabilities

The administrative and technical capabilities listed in **Table 4** include community (i.e., public and private) staff, their skills, and tools that can be used for mitigation planning and implementation. This capability includes engineers, planners, emergency managers, Geographic Information System (GIS) analysts, building inspectors, grant writers, and floodplain managers. Small communities may rely on other government entities, such as counties or special districts, for resources.

**Table 4. Administration and Technical Capabilities**

| Capability | Yes/No | Comments *(e.g., position, department, agency, explanation)* |
|---|---|---|
| ***Administrative Capabilities*** | | |
| Planning Board | No | n/a |
| Mitigation Planning Committee | No | n/a |
| Environmental Board/Commission | No | n/a |
| Open Space Board/Committee | No | n/a |
| Economic Development Commission/Committee | No | n/a |
| Maintenance programs to reduce risk | Yes | Staff Engineers |
| Mutual Aid Agreements | No | n/a |
| ***Technical/Staffing Capabilities*** | | |
| Planner(s) or engineer(s) with knowledge of land development and land management practices | Yes | Staff<br>Engineering Consultants |
| Engineer(s) or professional(s) trained in building or infrastructure construction practices | Yes | Staff<br>Engineering Consultants |

| Capability | Yes/No | Comments<br>*(e.g., position, department, agency, explanation)* |
|---|---|---|
| Planners or engineers with an understanding of natural hazards | Yes | Staff<br>Engineering Consultants |
| NFIP Floodplain Administrator | No | n/a |
| Surveyor(s) | Yes | Contracted as Needed |
| Personnel skilled or trained in GIS applications | Yes | Staff Engineers<br>Engineering Consultants |
| A scientist familiar with natural hazards | Yes | Contracted as Needed |
| Warning systems/services | Yes | Countywide Flood Early Warning System SMC Alert, in partnership with the San Mateo County Department of Emergency Management |
| Emergency manager | Yes | Staff Engineers<br>Consultants |
| Grantwriter(s) | Yes | Staff<br>Consultants |
| Staff with expertise or training in benefit cost analysis | Yes | Staff<br>Engineering Consultants |
| Professionals trained in conducting damage assessments | Yes | Staff<br>Engineering Consultants |

## 4.3. Fiscal Capabilities

**Table 5** lists fiscal capabilities available to OneShoreline that may be used to implement mitigation activities to reduce risk and enhance resiliency. This capability includes available funding sources from local budgets, state and federal grants, potential cost-sharing arrangements with private entities, existing insurance policies, and the ability to generate additional revenue through mitigation-related fees and bonds.

**Table 5. Financial Capabilities**

| Capability | Accessible or Eligible to Use |
|---|---|
| Community Development Block Grants (CDBG, CDBG-DR) | No |
| Federal Hazard Mitigation Assistance Program<br>*(i.e., Hazard Mitigation Grant Program (HMGP), HMGP Post Fire, Flood Mitigation Assistance (FMA) Program)* | Yes |
| Capital improvements project funding | Yes |
| Authority to levy taxes for specific purposes | Yes |
| User fees for water, sewer, gas, or electric service | No |
| Impact fees for homebuyers or developers of new development/homes | No |
| Stormwater utility fee | No |
| Incur debt through general obligation bonds | Yes |
| Incur debt through special tax bonds | Yes |
| Incur debt through private activity bonds | Yes |

| Capability | Accessible or Eligible to Use |
|---|---|
| Withhold public expenditures in hazard-prone areas | No |
| Other federal or state funding programs | Yes |
| Open space acquisition funding programs | No |

## 4.4. Education and Outreach Capabilities

**Table 6** lists the District's education and public outreach capabilities that can be used to inform residents about potential hazards, educate on mitigation strategies, and encourage proactive actions to reduce the community's impacts to disasters. These capabilities include fire safety programs, hazard awareness campaigns, public information, and communications offices.

**Table 6. Education and Outreach Capabilities**

| Capability | Yes/No | Comments *(e.g., position, department, agency, explanation)* |
|---|---|---|
| Public Information Officer | Yes | Staff Engineers<br>County Staff<br>Consultants |
| Personnel skilled or trained in website development | Yes | County Staff<br>Consultants |
| Hazard mitigation information is available on the jurisdiction's website | Yes | OneShoreline.org was developed as a hazard mitigation resource for County residents |
| Utilize social media for hazard mitigation education and outreach | Yes | **Facebook:** facebook.com/OneShoreline/<br>**X:** x.com/OneShoreline<br>**YouTube:** youtube.com/OneShoreline<br>**LinkedIn:** linkedin.com/oneshoreline<br>**Nextdoor:** nextdoor.com/agency-detail/ca/san-mateo-county/san-mateo-county-flood-and-sea-level-rise-resiliency-district/ |
| Citizen boards or commissions that address issues related to hazard mitigation | Yes | Colma Creek Citizens Advisory Committee |
| Other programs already in place that could be used to communicate hazard-related information | Yes | Quarterly newsletter featuring hazard-related updates and upcoming events |
| An established warning system for hazard events | Yes | Countywide Flood Early Warning System Stream Monitoring Stations<br>SMC Alert, in partnership with the San Mateo County Department of Emergency Management |

## 4.5. Community Classifications

The community classification relates to the community's ability to provide effective services to reduce its vulnerability to the identified hazards. These classifications can be viewed as indicators of the community's capabilities across all phases of emergency management (i.e., preparedness, response, recovery, and mitigation) and are used as underwriting parameters to determine the costs of various forms of insurance. **Table 7** summarizes the classifications of community programs available to OneShoreline.

**Table 7. Community Classifications**

| Program | Yes/No | Classification *(if applicable)* | Date Classified *(if applicable)* |
|---|---|---|---|
| Community Rating System (CRS) | No | n/a | n/a |
| Building Code Effectiveness Grading Schedule (BCEGS) | No | n/a | n/a |
| Public Protection (ISO Fire Protection Classes 1 to 10) | No | n/a | n/a |
| NWS StormReady® | No | n/a | n/a |
| NWS TsunamiReady® | No | n/a | n/a |
| Firewise USA® | No | n/a | n/a |

## 4.6. Needs to Expand/Improve Capabilities

OneShoreline identified existing authorities, policies, programs, funding, and/or resources that need to be expanded and/or improved to support the implementation of the hazard mitigation initiatives identified in this Plan (e.g., mitigation actions).

- To increase the District's capability to identify and apply for hazard mitigation grants and fund the local match for hazard mitigation grants, the District needs to expand its grant writing capabilities by potentially hiring more grant writers.
- Enhance the District's GIS capabilities and infrastructure to more effectively integrate current hazard data, improve vulnerability mapping accuracy, and better prioritize mitigation projects.

# 5. NATIONAL FLOOD INSURANCE PROGRAM

As a special district, OneShoreline is not eligible to participate in FEMA's National Flood Insurance Program (NFIP). Further information on San Mateo County's NFIP and Community Rating System (CRS) participation is available in **Volume 1** of this Plan and under each jurisdictional annex (**Volume 2**).

# 6. HAZARD MITIGATION PLAN INTEGRATION

For a community to successfully reduce long-term risk, hazard mitigation must be integrated into day-to-day planning mechanisms and initiatives. Plan integration is the process by which communities critically assess the existing planning framework and align efforts to reduce long-term risks and build a more resilient community. It involves a two (2) way exchange of information and incorporation of ideas and concepts between hazard mitigation plans and other community plans. In particular, plan integration involves incorporating hazard mitigation principles and actions into other plans and integrating planning mechanisms into hazard mitigation plans. Plan integration involves community plans, policies, codes, and programs that guide development and define roles and responsibilities for implementing these capabilities. Additionally, plan integration is achieved through the involvement of key staff and community officials in collaborative hazard mitigation planning.

# 6.1. Existing Plan Integration

A hazard mitigation plan must explain how the jurisdiction incorporated the previous Plan update over the last five (5) years to demonstrate progress in local mitigation efforts. During the performance period since the adoption of the previous LHMP, OneShoreline has made progress in integrating components of the hazard mitigation strategy (e.g., goals, objectives, and actions) into planning initiatives and mechanisms. **Table 8** highlights the planning mechanisms/initiatives in which the previous Plan was integrated and the information integrated.

**Table 8. Existing Plan Integration**

| Planning Initiative | Current Integration Description |
|---|---|
| Annual Project Work Plans, Studies, and Reports | Hazard mitigation goals and actions identified in the previous LHMP were reviewed by staff and incorporated into OneShoreline's annual work plans. During annual work plan development, staff cross-referenced mitigation actions with ongoing and proposed programs to ensure consistency. Projects identified in the LHMP were elevated to priority initiatives where feasible, particularly those that reduced communities' long-term flood risk. In addition, hazard data in the Plan were used to inform adaptation planning efforts. |

# 6.2. Potential Future Integration

A hazard mitigation plan must explain how the jurisdiction intends to incorporate this Plan update into planning mechanisms over the next five (5) years. The capability assessment presented in Section 4 of this Annex identifies codes, plans, and programs that provide opportunities for integration. **Table 9** outlines planning mechanisms/initiatives that do not currently integrate the goals and recommendations of this Plan but provide opportunities to do so in the future.

**Table 9. Potential Future Integration**

| Planning Initiative | Current Integration Description |
|---|---|
| Annual Project Work Plans | Hazard mitigation goals and actions identified in this LHMP will be reviewed by staff and incorporated into OneShoreline's annual work plans. During annual work plan development, staff will cross-reference mitigation actions with ongoing and proposed programs to ensure consistency. Projects identified in the LHMP will be elevated to priority initiatives where feasible, particularly those that reduce communities' long-term flood risk. |
| Adaptation and Resilience Planning Studies and Reports | Hazard assessment data in the LHMP could be used to inform adaptation and resilience planning studies and reports. |
| General Plan Support | As municipalities update their General Plans, OneShoreline intends to collaborate with municipal staff to determine how to incorporate sea level rise and flooding considerations into land use, growth, and development planning. The opportunity to incorporate additional hazard mitigation and abatement measures will be considered for inclusion in the updated General Plans. The Safety Element will be revised, and this LHMP will be used to identify new information that was not available during the previous revision of the Safety Element, including hazards, climate adaptation, and resilience strategies. |

| Planning Initiative | Current Integration Description |
|---|---|
| Countywide Flood Early Warning System | OneShoreline intends to coordinate alerts to residents from its Countywide Flood Early Warning System through SMC Alert and the San Mateo County Department of Emergency Management. The LHMP can be used to support a public education and enrollment campaign throughout the County, particularly targeting underserved populations. |

The District's Local Planning Team will identify all relevant planning initiatives scheduled for update in the next year and during the annual update process of the LHMP. Additionally, the Local Planning Team will identify opportunities to integrate key elements of the LHMP, specifically relevant strategies, into the planning initiatives. Mitigation actions were identified to promote plan integration in future revisions of this Plan.

# 7. SIGNIFICANT PAST EVENTS

A complete risk assessment, including past incidents, for each identified hazard of concern, can be found in **Volume 1** of this Plan. A summary of past events is provided under each hazard profile and includes a chronology of events that have affected the County and its municipalities.

# 8. HAZARD VULNERABILITY AND IMPACT ASSESSMENT

Exposure and vulnerability to certain hazards affect the entire County, and others are geographically defined. Although the entire County may be vulnerable to these hazards, their impacts may vary depending on existing community conditions (e.g., underserved populations or those with access and functional needs may be more susceptible under certain conditions).

The Local Planning Team identified ***unique vulnerabilities and impacts*** to the following natural hazards, based on the hazards profiled in **Volume 1**.

- Earthquake
- Flood *(riverine flooding, urban/flash flooding, coastal flooding)*
- Sea Level Rise
- Severe Weather *(heavy rainfall, severe thunderstorms, strong winds, tornadoes, heat wave/extreme heat, fog)*
- Tsunami
- Wildfire

It was determined that the planning area did not have unique vulnerabilities or impacts from the following natural hazards; rather, its vulnerabilities and impacts are consistent with those experienced throughout the County.

- Dam Failure

- Drought

**Note:** Severe weather and flood are profiled as the two (2) hazards. However, to conduct a more thorough risk assessment, the sub-hazards (i.e., heavy rainfall, heat wave/extreme heat, fog, severe thunderstorms, tornadoes, strong winds, riverine flooding, urban/flash flooding, and coastal flooding) were ranked individually. The hazard risk assessment methodology can be found in Chapter 4 of **Volume 1** of this Plan.

**Table 10** outlines the ***unique vulnerabilities and impacts*** for OneShoreline and addresses only the hazards relevant to the jurisdiction. A complete risk assessment for each identified hazard of concern is in **Volume 1** of this Plan. Hazard mapping can be found in Appendix A of this Annex.

**Table 10. Hazard Vulnerability and Impact Assessment**

| Hazard | Vulnerability and Impacts |
|---|---|
| Dam Failure | The Local Planning Team determined that the District does not have unique vulnerabilities or impacts from dam failure; rather, the jurisdiction's vulnerabilities and impacts are consistent with those experienced throughout the County. |
| Drought | The Local Planning Team determined that the District does not have unique vulnerabilities or impacts from drought; rather, the jurisdiction's vulnerabilities and impacts are consistent with those experienced throughout the County. |
| Earthquake | OneShoreline owns and operates a Countywide Flood Early Warning System, a network of rain and stream gauges located throughout the County that are vulnerable to earthquakes. Additionally, OneShoreline owns and operates channel infrastructure on Colma Creek and San Francisquito Creek, as well as two (2) pump stations and one (1) tide gate on San Bruno Creek, which are vulnerable to earthquakes. |
| Flood *(riverine flooding, urban/flash flooding, coastal flooding)* | OneShoreline's Countywide Flood Early Warning System is vulnerable to damage by flooding. Additionally, OneShoreline's channel infrastructure on Colma Creek and San Francisquito Creek, as well as two (2) pump stations and one (1) tide gate on San Bruno Creek, may be overwhelmed by significant flooding.<br><br>The assessed value of parcels flooded on the Bayshore and on the Coastside north of the City of Half Moon Bay exceeds $1 billion for near-term flooding (present day) and totals roughly $39.1 billion for long-term flooding (in the next 50 to 100 years). Additionally, the FEMA Flood Insurance Rate Maps (FIRMs) do not accurately show current flood risk in many areas in the County. Some levees within the County are no longer accredited by FEMA. Also, many flood-prone watersheds in the County lack instrumentation to enable timely notifications and emergency response during flood events. A lack of timely, efficient flood warnings can impact communities in flood-prone areas, particularly underserved groups (e.g., the elderly, children, and people with access and functional needs). |

| Hazard | Vulnerability and Impacts |
|---|---|
| Landslide | Some of the gauges in OneShoreline's Countywide Flood Early Warning System are located within landslide-susceptible areas in San Mateo County, making these instruments vulnerable to landslides. In the event of a landslide, access to repair these instruments may be obstructed for an extended period of time. This can result in incomplete data and interruption in service. |
| Sea Level Rise | San Mateo County has more people and more property value at risk from sea level rise than any other county in California. When population projections are taken into account, the County is one (1) of six (6) counties in the United States (only one on the West Coast) with over 100,000 people living in an area affected by projected three (3) feet of sea level rise. Based on the High Level Scenario (6.6 feet of sea level rise and a 1% annual chance storm) modeled in the San Mateo County 2018 Sea Level Rise Vulnerability Assessment, the following natural and built assets are vulnerable:<br>• Over 7,000 acres of wetlands (more than 80% of all wetlands on the Bayshore and on the Coastside north of the City of Half Moon Bay).<br>• 183 hazardous materials sites (almost 50%), including four (4) Superfund Sites.<br>• Two (2) power plants and 19 electric substations.<br>• 25 miles of rail (25%) and over 350 miles of local roads (18%).<br>• 45 schools (18%)<br>• Seven (7) wastewater treatment plants (over 75%)<br>Additionally, some gauges in OneShoreline's Countywide Flood Early Warning System are located near San Francisco Bay and the Pacific Coast, making them vulnerable to damage from sea level rise and associated flooding. |
| Severe Weather *(heavy rainfall, severe thunderstorms, strong winds, tornadoes, heat wave/extreme heat, fog)* | OneShoreline owns and operates a Countywide Flood Early Warning System, a network of rain and stream gauges located throughout the County, which is vulnerable to severe weather. Additionally, OneShoreline owns and operates channel infrastructure on Colma Creek and San Francisquito Creek, as well as two (2) pump stations and one (1) tide gate on San Bruno Creek, which are vulnerable to heavy rainfall and strong winds. |
| Tsunami | Some of the gauges in OneShoreline's Countywide Flood Early Warning System are located near San Francisco Bay and the Pacific Coast, making them vulnerable to tsunami damage. Additionally, OneShoreline's channel infrastructure on Colma Creek and San Francisquito Creek, as well as two (2) pump stations and one (1) tide gate on San Bruno Creek, are vulnerable to tsunamis. |

| Hazard | Vulnerability and Impacts |
|---|---|
| Wildfire | Some of the gauges in OneShoreline's Countywide Flood Early Warning System are located within the Fire Severity Zone, making them vulnerable to wildfire impacts. In the event of a wildfire, access to repair these instruments may be obstructed for an extended period of time. This can result in incomplete data and interruption in service. |

The District evaluated whether vulnerability in hazard-prone areas had increased, decreased, or remained the same for each natural hazard identified in this LHMP. Climate change, changes in population, infrastructure expansion, and economic shifts that can affect vulnerability were considered. For example, if planned development is in an identified hazard area or is not built to the updated building codes, it may increase the community's vulnerability to future hazards and disasters. On the other hand, if development occurred with mitigation practices in place, the vulnerability may have remained the same or decreased. Additionally, shifting demographics (e.g., underserved population) were taken into consideration.

**Table 11** outlines whether climate change has increased or decreased the District's vulnerability (i.e., exposure) and impact to each natural hazard over the past five (5) years, and the effect of climate change on the future probability of occurrence and impacts from each natural hazard.

**Table 11. Climate Change: Current and Future Vulnerability and Impact**

| Hazard | Vulnerability and Impact |
|---|---|
| ***Current Vulnerability and Impact*** | |
| Dam Failure | Remained the Same |
| Drought | Remained the Same |
| Earthquake | Remained the Same |
| Flood *(riverine flooding, urban/flash flooding, coastal flooding)* | Increased |
| Landslide | Remained the Same |
| Sea Level Rise | Increased |
| Severe Weather *(heavy rainfall, severe thunderstorms, strong winds, tornadoes, heat wave/extreme heat, fog)* | Increased |
| Tsunami | Remained the Same |
| Wildfire | Increased |
| ***Future Vulnerability and Impact*** | |
| Dam Failure | No Change Anticipated |
| Drought | No Change Anticipated |
| Earthquake | No Change Anticipated |
| Flood *(riverine flooding, urban/flash flooding, coastal flooding)* | Increase |
| Landslide | No Change Anticipated |
| Sea Level Rise | Increase |
| Severe Weather *(heavy rainfall, severe thunderstorms, strong winds, tornadoes, heat wave/extreme heat, fog)* | Increase |

| Hazard | Vulnerability and Impact |
|---|---|
| Tsunami | No Change Anticipated |
| Wildfire | Increase |

**Table 12** outlines whether changes in population within the District over the past five (5) years have increased or decreased the vulnerability (i.e., exposure) and impact to these natural hazards, and the anticipated effects changes in population may have on the future probability of occurrence and impacts from these natural hazards.

**Table 12. Changes in Population: Current and Future Vulnerability and Impact**

| Hazard | Vulnerability and Impact |
|---|---|
| ***Current Vulnerability and Impact*** | |
| Dam Failure | Remained the Same |
| Drought | Remained the Same |
| Earthquake | Remained the Same |
| Flood *(riverine flooding, urban/flash flooding, coastal flooding)* | Remained the Same |
| Landslide | Remained the Same |
| Sea Level Rise | Remained the Same |
| Severe Weather *(heavy rainfall, severe thunderstorms, strong winds, tornadoes, heat wave/extreme heat, fog)* | Remained the Same |
| Tsunami | Remained the Same |
| Wildfire | Remained the Same |
| ***Future Vulnerability and Impact*** | |
| Dam Failure | No Change Anticipated |
| Drought | No Change Anticipated |
| Earthquake | No Change Anticipated |
| Flood *(riverine flooding, urban/flash flooding, coastal flooding)* | No Change Anticipated |
| Landslide | No Change Anticipated |
| Sea Level Rise | No Change Anticipated |
| Severe Weather *(heavy rainfall, severe thunderstorms, strong winds, tornadoes, heat wave/extreme heat, fog)* | No Change Anticipated |
| Tsunami | No Change Anticipated |
| Wildfire | No Change Anticipated |

**Table 13** outlines whether development over the past five (5) years has increased or decreased the District's vulnerability (i.e., exposure) and impact to these natural hazards, and the anticipated effects changes in development may have on the future probability of occurrence and impacts from these natural hazards.

**Table 13. Changes in Development: Current and Future Vulnerability and Impact**

| Hazard | Vulnerability and Impact |
|---|---|
| ***Current Vulnerability and Impact*** | |
| Dam Failure | Remained the Same |
| Drought | Remained the Same |
| Earthquake | Remained the Same |
| Flood *(riverine flooding, urban/flash flooding, coastal flooding)* | Increase |
| Landslide | Remained the Same |
| Sea Level Rise | Increase |
| Severe Weather *(heavy rainfall, severe thunderstorms, strong winds, tornadoes, heat wave/extreme heat, fog)* | Increase |
| Tsunami | Remained the Same |
| Wildfire | Remained the Same |
| ***Future Vulnerability and Impact*** | |
| Dam Failure | No Change Anticipated |
| Drought | No Change Anticipated |
| Earthquake | No Change Anticipated |
| Flood *(riverine flooding, urban/flash flooding, coastal flooding)* | Increase |
| Landslide | No Change Anticipated |
| Sea Level Rise | Increase |
| Severe Weather *(heavy rainfall, severe thunderstorms, strong winds, tornadoes, heat wave/extreme heat, fog)* | Increase |
| Tsunami | No Change Anticipated |
| Wildfire | No Change Anticipated |

## 8.1. Future Major Assets

Community assets should include anything that is important to a community's character and function. Assets include people (i.e., underserved population); structures (i.e., new and existing buildings); community lifelines and other critical facilities; natural, historic, and cultural resources; and the economy and other activities that have value to the community. Although all assets may be affected by the hazards identified in this LHMP, the jurisdiction has identified future major assets that may be more vulnerable and impacted by these hazards.

- Any additional rain and stream gauges added to the Countywide Flood Early Warning System may be vulnerable to dam failure, earthquake, flood, landslide, severe weather, tsunami, and wildfire.
- Any new assets will be built to comply with the latest building codes and standards and will be mitigated to protect them from identified and anticipated hazards, especially those expected to increase due to climate change.

# 9. HAZARD RISK RANKING

**Table 14** presents the local hazard ranking for OneShoreline of all hazards of concern listed in Volume 1 of this Plan. This ranking summarizes how hazards vary for this jurisdiction. As thoroughly described in Volume 1 of this Plan, 14 factors were evaluated to provide an informed and comprehensive analysis and ranking of the hazards included in this LHMP.

- **Probability** (likelihood of annual occurrence)
- **Extent** of the hazard, including catastrophic potential
- **Vulnerability** (i.e., exposure) of the population, property (including critical infrastructure), and changes in the development (over the past five (5) years)
- **Impacts** on population and life safety, underserved population, property (including critical infrastructure), the economy, the environment, continuity of operations/delivery of services, future development, and climate change

The scores for extent, vulnerability, and impact were weighted and combined to produce a consequence score. This consequence score was then multiplied by the probability score to calculate the total risk score for each hazard. At the fundamental level, the consequence is an assessment of the potential impact(s) if the hazards incident were to occur. In this assessment, the consequence score (i.e., the consequence of an event) will be independent of the extent, vulnerability, and impacts. The probability of the hazards is not included in assessing the consequence because, without an event, there is no consequence or impact. For further details on how the probability, extent, vulnerability, and impact factors in **Table 14** were calculated, please refer to Chapter 4 in **Volume 1** of this Plan. Details of the hazard ranking results are provided in Appendix C of this Annex.

It is important to note that the sub-hazards for severe weather (i.e., heavy rainfall, severe thunderstorms, strong winds, tornadoes, heat wave/extreme heat, and fog) and flood (i.e., riverine flooding, urban/flash flooding, coastal flooding) were individually ranked in the hazard risk ranking; however, severe weather and flood are each considered as the main hazard throughout this Annex and **Volume 1**.

## Table 14. OneShoreline Hazard Risk Ranking

| Hazard Event | Probability Factor | Sum of Weighted Extent Factors | Sum of Weighted Vulnerability Factors | Sum of Weighted Impact Factors | Consequence Score | Total Risk Score* |
|---|---|---|---|---|---|---|
| Urban/Flash Flooding ***(Flood)*** | 3 | 18 | 14 | 32 | 64 | 89 |
| Heavy Rainfall ***(Severe Weather)*** | 3 | 12 | 13 | 23 | 48 | 67 |
| Sea Level Rise | 3 | 12 | 8 | 27 | 47 | 65 |
| Earthquake | 2 | 18 | 14 | 35 | 67 | 62 |
| Strong Winds ***(Severe Weather)*** | 3 | 9 | 13 | 22 | 44 | 61 |
| Wildfire | 2 | 18 | 10 | 34 | 62 | 57 |
| Heat Wave/Extreme Heat ***(Severe Weather)*** | 3 | 9 | 10 | 15 | 34 | 47 |
| Riverine Flooding ***(Flood)*** | 2 | 12 | 7 | 30 | 49 | 45 |
| Landslide | 2 | 9 | 9 | 30 | 48 | 44 |
| Severe Thunderstorm ***(Severe Weather)*** | 2 | 12 | 13 | 21 | 46 | 43 |
| Coastal Flooding ***(Flood)*** | 2 | 12 | 6 | 25 | 43 | 40 |
| Drought | 2 | 6 | 11 | 22 | 39 | 36 |
| Dam Failure | 1 | 12 | 9 | 28 | 49 | 23 |
| Tornado ***(Severe Weather)*** | 1 | 6 | 13 | 13 | 32 | 15 |
| Fog ***(Severe Weather)*** | 1 | 6 | 9 | 11 | 26 | 12 |
| Tsunami | 1 | 6 | 5 | 12 | 23 | 11 |

**Extent:** Sum of the weighted Extent factors.
**Vulnerability:** Sum of the weighted Vulnerability factors.
**Impact:** Sum of the weighted Impact factors.

**Consequence Score:** Extent + Vulnerability + Impact (Sum of all weighted factors).
**Total Risk Score =** Probability x Consequence
* Normalized to 100

### Total Risk Score Legend

| Classification | Probability | Extent | Vulnerability | Impact | Consequence Score | Total Risk Score |
|---|---|---|---|---|---|---|
| Low (L) | 1 | 0 – 6 | 0 – 4 | 0 – 12 | 0 – 24 | 0 – 32 |
| Medium (M) | 2 | 7 – 12 | 5 – 10 | 13 – 26 | 25 – 48 | 33 – 66 |
| High (H) | 3 | 13 – 18 | 11 – 15 | 27 – 39 | 49 – 72 | 67 – 100 |

*The **legend**—specifically the assignment of low, medium, and high—provides an additional means to qualitatively assess the probability factor, sum of weighted factors, and the total risk scores for each hazard. The **Consequence Score** represents the sum of the Extent, Vulnerability, and Impact Factors. The **Total Risk Score** is a measure of Probability and Consequence.*

# 10. MITIGATION ACTIONS

This section includes the mitigation actions developed to address the risks and vulnerabilities to the hazards identified in this Plan. This Plan serves only to recommend mitigation measures based on the potential for risk reduction and available funding. Implementation of mitigation actions is dependent on risk reduction priorities, feasibility, and available funding. It is also dependent on the cooperation and support of the jurisdiction and/or department responsible for each action item. Additionally, all mitigation actions identified in the 2021 update or before were updated accordingly. Any new mitigation actions are listed as *New* (under Project Status).

OneShoreline agreed to **43** mitigation actions that apply to the jurisdiction's properties for which it has jurisdictional responsibility and authority. A summary of the District's mitigation actions status is listed in **Table 15**.

**Note:** The mitigation actions outlined in this Plan are designed only to address those natural hazards that received a risk ranking of *medium* or *high* during the hazard risk assessment (**Table 14**). Hazards that ranked *low* (dam failure and tsunami) may not have specific mitigation actions detailed in this document. The distribution of mitigation actions reflects OneShoreline's core mission, which specializes in mitigating water-related impacts of climate change, specifically flooding, sea level rise, and coastal erosion.

**Table 15. OneShoreline Mitigation Actions Summary**

| Status | Mitigation Action Total |
|---|---|
| Continuing | 11 |
| In Progress | 21 |
| Not Yet Started | 0 |
| New | 10 |
| **TOTAL** | **43** |
| Completed | 0 |
| No Longer Needed | 9 |

| Mitigation Actions per Hazard | | | |
|---|---|---|---|
| Dam Failure | 4 | Sea Level Rise | 39 |
| Drought | 6 | Severe Weather *(heavy rainfall, severe thunderstorms, strong winds, tornadoes, heat wave/extreme heat, fog)* | 40 |
| Earthquake | 5 | Tsunami | 6 |
| Flood *(riverine flooding, urban/flash flooding, coastal flooding)* | 41 | Wildfire | 8 |
| Landslide | 3 | | |

A detailed explanation of the Mitigation Strategy can be found in Chapter 5 of **Volume 1**.

| | | | | | |
|---|---|---|---|---|---|
| **Mitigation Action** | Support the countywide initiatives identified in Volume 1 of the San Mateo County Hazard Mitigation Plan and actively participate in the maintenance protocols. | | | | |
| **Action Number** | FSLR-1 | **Goal(s) Addressed** | 1, 2, 3, 4, 5 | **Prioritization Score** | 34/40 |
| **Year Added to the Plan** | 2021 | **Timeline** *(estimated)* | Ongoing | **Implementation Priority** | High |
| **Hazard(s) Mitigated** | Dam Failure, Drought, Earthquake, Flood, Landslide, Sea Level Rise, Severe Weather, Tsunami, Wildfire | | | | |
| **Project Status** | Continuing | If *No Longer Needed*, provide reason. | n/a | | |
| **Benefits** *(Loss Avoided)* | Medium | | | | |
| **Lead Agency / Organization** | OneShoreline | | | | |
| **Supporting Agency / Organization** *(If applicable)* | n/a | | | | |
| **Additional Participating Jurisdictions** *(If Applicable)* | n/a | | | | |
| **Estimated Cost** | Low | **Potential Funding Source** | Local General Fund (Staff Time) | | |
| **Additional Details** *(optional)* | | | | | |

| **Mitigation Action** | Actively participate in the plan maintenance protocols outlined in Volume 1 of this hazard mitigation plan. | | | | |
|---|---|---|---|---|---|
| **Action Number** | FSLR-2 | **Goal(s) Addressed** | n/a | **Prioritization Score** | n/a |
| **Year Added to the Plan** | 2021 | **Timeline** *(estimated)* | n/a | **Implementation Priority** | n/a |
| **Hazard(s) Mitigated** | Dam Failure, Drought, Earthquake, Flood, Landslide, Sea Level Rise, Severe Weather, Tsunami, Wildfire | | | | |
| **Project Status** | No Longer Needed | If *No Longer Needed*, provide reason. | This mitigation action was combined with FSLR-1. | | |
| **Benefits** *(Loss Avoided)* | n/a | | | | |
| **Lead Agency / Organization** | n/a | | | | |
| **Supporting Agency / Organization** *(If applicable)* | n/a | | | | |
| **Additional Participating Jurisdictions** *(If Applicable)* | n/a | | | | |
| **Estimated Cost** | n/a | **Potential Funding Source** | n/a | | |
| **Additional Details** *(optional)* | | | | | |

| | | | | | |
|---|---|---|---|---|---|
| **Mitigation Action** | Identify and pursue strategies to incorporate dam failure, earthquake, tsunami, and wildfire hazards into the District's project planning, design, and implementation. | | | | |
| **Action Number** | FSLR-3 | **Goal(s) Addressed** | 1, 4, 5 | **Prioritization Score** | 30/40 |
| **Year Added to the Plan** | 2021 | **Timeline** *(estimated)* | Ongoing | **Implementation Priority** | High |
| **Hazard(s) Mitigated** | Dam Failure, Earthquake, Flood, Severe Weather, Tsunami, Wildfire | | | | |
| **Project Status** | Continuing | If *No Longer Needed*, provide reason. | n/a | | |
| **Benefits** *(Loss Avoided)* | High | | | | |
| **Lead Agency / Organization** | OneShoreline | | | | |
| **Supporting Agency / Organization** *(If applicable)* | n/a | | | | |
| **Additional Participating Jurisdictions** *(If Applicable)* | n/a | | | | |
| **Estimated Cost** | Medium | **Potential Funding Source** | Local General Fund (Staff Time), HMGP, FMA, EMPG | | |
| **Additional Details** *(optional)* | | | | | |

| | | | | | |
|---|---|---|---|---|---|
| **Mitigation Action** | Modernize existing water-related climate hazard mapping (including flood, sea level rise, coastal erosion, stormwater, and groundwater emergence) to better reflect combined flooding hazards, current conditions, and the best available science for long-term future conditions. | | | | |
| **Action Number** | FSLR-4 | **Goal(s) Addressed** | 1, 2, 3, 5 | **Prioritization Score** | 38/40 |
| **Year Added to the Plan** | 2021 | **Timeline** *(estimated)* | 1 to 5 Years | **Implementation Priority** | High |
| **Hazard(s) Mitigated** | | Flood, Sea Level Rise, Severe Weather | | | |
| **Project Status** | | In Progress | If *No Longer Needed*, provide reason. | n/a | |
| **Benefits** *(Loss Avoided)* | | Medium | | | |
| **Lead Agency / Organization** | | OneShoreline | | | |
| **Supporting Agency / Organization** *(If applicable)* | | n/a | | | |
| **Additional Participating Jurisdictions** *(If Applicable)* | | n/a | | | |
| **Estimated Cost** | | Low | **Potential Funding Source** | Local General Fund (Staff Time) | |
| **Additional Details** *(optional)* | | | | | |

| | | | | | |
|---|---|---|---|---|---|
| **Mitigation Action** | Develop and implement a Perishable Data Capture Program to systematically collect high water marks, preliminary damage estimates, field photographs, and event mapping within five (5) days of a regional flood, storm, or coastal event causing reportable damage in San Mateo County. Data will be stored in an accessible platform and made available to member jurisdictions, FEMA, and Cal OES for future risk assessments and plan updates, including the San Mateo County Local Hazard Mitigation Plan. | | | | |
| **Action Number** | FSLR-5 | **Goal(s) Addressed** | 1, 2, 3, 4 | **Prioritization Score** | 37/40 |
| **Year Added to the Plan** | 2021 | **Timeline** *(estimated)* | 2 to 3 Years | **Implementation Priority** | High |
| **Hazard(s) Mitigated** | Dam Failure, Drought, Earthquake, Flood, Landslide, Sea Level Rise, Severe Weather, Tsunami, Wildfire | | | | |
| **Project Status** | In Progress | If *No Longer Needed*, provide reason. | n/a | | |
| **Benefits** *(Loss Avoided)* | Medium | | | | |
| **Lead Agency / Organization** | OneShoreline | | | | |
| **Supporting Agency / Organization** *(If applicable)* | n/a | | | | |
| **Additional Participating Jurisdictions** *(If Applicable)* | n/a | | | | |
| **Estimated Cost** | Low | **Potential Funding Source** | Local General Fund (Staff Time) | | |
| **Additional Details** *(optional)* | | | | | |

| | | | | | |
|---|---|---|---|---|---|
| **Mitigation Action** | Support jurisdictions in amending General Plans and specifics in consideration of the FEMA 100-year storm, sea level rise, groundwater rise, extreme storms, and combined flooding into land use planning and shoreline development (including new policies and plans by local jurisdictions and development applications). | | | | |
| **Action Number** | FSLR-6 | **Goal(s) Addressed** | 1, 3, 5 | **Prioritization Score** | 37/40 |
| **Year Added to the Plan** | 2021 | **Timeline** *(estimated)* | Ongoing | **Implementation Priority** | High |
| **Hazard(s) Mitigated** | | Flood, Sea Level Rise, Severe Weather | | | |
| **Project Status** | | Continuing | If *No Longer Needed*, provide reason. | n/a | |
| **Benefits** *(Loss Avoided)* | | High | | | |
| **Lead Agency / Organization** | | OneShoreline | | | |
| **Supporting Agency / Organization** *(If applicable)* | | San Mateo County Planning and Building Department, All San Mateo County Municipalities | | | |
| **Additional Participating Jurisdictions** *(If Applicable)* | | n/a | | | |
| **Estimated Cost** | | Low | **Potential Funding Source** | Local General Fund (Staff Time) | |
| **Additional Details** *(optional)* | | | | | |

| | | | | | |
|---|---|---|---|---|---|
| **Mitigation Action** | Support San Mateo County in enhancing and institutionalizing its adopted Sea Level Rise Policy for County-owned assets and operations. | | | | |
| **Action Number** | FSLR-7 | **Goal(s) Addressed** | 1, 3, 4, 5 | **Prioritization Score** | 34/40 |
| **Year Added to the Plan** | 2021 | **Timeline** *(estimated)* | 1 to 5 Years | **Implementation Priority** | High |
| **Hazard(s) Mitigated** | Flood, Sea Level Rise, Severe Weather | | | | |
| **Project Status** | In Progress | If *No Longer Needed*, provide reason. | n/a | | |
| **Benefits** *(Loss Avoided)* | Medium | | | | |
| **Lead Agency / Organization** | San Mateo County Sustainability Department, OneShoreline | | | | |
| **Supporting Agency / Organization** *(If applicable)* | n/a | | | | |
| **Additional Participating Jurisdictions** *(If Applicable)* | n/a | | | | |
| **Estimated Cost** | High | **Potential Funding Source** | Local General Fund (Staff Time) | | |
| **Additional Details** *(optional)* | | | | | |

| | | | | | |
|---|---|---|---|---|---|
| **Mitigation Action** | Collaborate with regional climate resilience and adaptation coalitions to identify shared funding priorities and provide coordinated technical assistance for grant applications to the extent possible. This could include conducting benefit cost analyses (BCA) and managing the full grant lifecycle, from application to final closeout, to maximize limited resources for climate-driven hazard mitigation. | | | | |
| **Action Number** | FSLR-8 | **Goal(s) Addressed** | n/a | **Prioritization Score** | n/a |
| **Year Added to the Plan** | 2021 | **Timeline** *(estimated)* | n/a | **Implementation Priority** | n/a |
| **Hazard(s) Mitigated** | Drought, Flood, Sea Level Rise, Severe Weather, Wildfire | | | | |
| **Project Status** | No Longer Needed | If *No Longer Needed*, provide reason. | This mitigation action was consolidated with FSLR-41. | | |
| **Benefits** *(Loss Avoided)* | n/a | | | | |
| **Lead Agency / Organization** | n/a | | | | |
| **Supporting Agency / Organization** *(If applicable)* | n/a | | | | |
| **Additional Participating Jurisdictions** *(If Applicable)* | n/a | | | | |
| **Estimated Cost** | n/a | **Potential Funding Source** | n/a | | |
| **Additional Details** *(optional)* | | | | | |

| | | | | | |
|---|---|---|---|---|---|
| **Mitigation Action** | Develop and continuously refine a prioritized Critical Infrastructure Upgrade Program covering pump stations, generators, tide gates, stream gates, culverts, and open channels owned and operated by OneShoreline. The Program will include an asset inventory, a risk-based prioritization methodology, and a five (5) year capital improvement schedule. | | | | |
| **Action Number** | FSLR-9 | **Goal(s) Addressed** | 1, 3, 4 | **Prioritization Score** | 33/40 |
| **Year Added to the Plan** | 2021 | **Timeline** *(estimated)* | 1 to 5 Years | **Implementation Priority** | High |
| **Hazard(s) Mitigated** | Flood, Sea Level Rise, Severe Weather | | | | |
| **Project Status** | In Progress | If *No Longer Needed*, provide reason. | n/a | | |
| **Benefits** *(Loss Avoided)* | High | | | | |
| **Lead Agency / Organization** | OneShoreline | | | | |
| **Supporting Agency / Organization** *(If applicable)* | n/a | | | | |
| **Additional Participating Jurisdictions** *(If Applicable)* | n/a | | | | |
| **Estimated Cost** | High | **Potential Funding Source** | Tax-Funded Flood Zones, California Department of Water Resources grants, HMGP, FMA | | |
| **Additional Details** *(optional)* | | | | | |

| | | | | | |
|---|---|---|---|---|---|
| **Mitigation Action** | Support and advance multi-benefit regional stormwater capture and green infrastructure projects in San Mateo County that reduce flood risk, augment local water supply, and support groundwater recharge. | | | | |
| **Action Number** | FSLR-10 | **Goal(s) Addressed** | 1, 3, 4, 5 | **Prioritization Score** | 28/40 |
| **Year Added to the Plan** | 2021 | **Timeline** *(estimated)* | Ongoing | **Implementation Priority** | Medium |
| **Hazard(s) Mitigated** | Flood, Sea Level Rise, Severe Weather | | | | |
| **Project Status** | Continuing | If *No Longer Needed*, provide reason. | n/a | | |
| **Benefits** *(Loss Avoided)* | Medium | | | | |
| **Lead Agency / Organization** | OneShoreline | | | | |
| **Supporting Agency / Organization** *(If applicable)* | All San Mateo County Municipalities, San Mateo Resource Conservation District, City/County Association of Governments of San Mateo County | | | | |
| **Additional Participating Jurisdictions** *(If Applicable)* | n/a | | | | |
| **Estimated Cost** | Medium | **Potential Funding Source** | Tax-Funded Flood Zones, Property/Vehicle Fees, Stormwater Fees, Municipal Capital Project Funding, Caltrans grants, California Department of Water Resources grants, United States Environmental Protection Agency grants | | |
| **Additional Details** *(optional)* | | | | | |

| **Mitigation Action** | Advance multi-benefit regional stormwater capture projects in the County through a regionally collaborative approach. | | | | |
|---|---|---|---|---|---|
| **Action Number** | FSLR-11 | **Goal(s) Addressed** | n/a | **Prioritization Score** | n/a |
| **Year Added to the Plan** | 2021 | **Timeline** *(estimated)* | n/a | **Implementation Priority** | n/a |
| **Hazard(s) Mitigated** | Drought, Flood, Landslide, Sea Level Rise, Severe Weather | | | | |
| **Project Status** | No Longer Needed | If *No Longer Needed*, provide reason. | This mitigation action was combined with FSLR-10. | | |
| **Benefits** *(Loss Avoided)* | n/a | | | | |
| **Lead Agency / Organization** | n/a | | | | |
| **Supporting Agency / Organization** *(If applicable)* | n/a | | | | |
| **Additional Participating Jurisdictions** *(If Applicable)* | n/a | | | | |
| **Estimated Cost** | n/a | **Potential Funding Source** | n/a | | |
| **Additional Details** *(optional)* | | | | | |

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| **Mitigation Action** | Upsize stormwater drainage to alleviate repeated localized flooding, especially storm drain systems connected to San Mateo County Flood and Sea Level Rise Resiliency District Flood Zone channels and infrastructure. | | | | |
| **Action Number** | FSLR-12 | **Goal(s) Addressed** | 1, 3, 4, 5 | **Prioritization Score** | 30/40 |
| **Year Added to the Plan** | 2021 | **Timeline** *(estimated)* | Ongoing | **Implementation Priority** | High |
| **Hazard(s) Mitigated** | Flood, Sea Level Rise, Severe Weather | | | | |
| **Project Status** | Continuing | If *No Longer Needed*, provide reason. | n/a | | |
| **Benefits** *(Loss Avoided)* | High | | | | |
| **Lead Agency / Organization** | OneShoreline | | | | |
| **Supporting Agency / Organization** *(If applicable)* | San Mateo County Public Works Department, All San Mateo County Municipalities | | | | |
| **Additional Participating Jurisdictions** *(If Applicable)* | n/a | | | | |
| **Estimated Cost** | High | **Potential Funding Source** | Tax-Funded Flood Zones, Property/Vehicle Fees, Stormwater Fees, Municipal Capital Project Funding, Caltrans grants, California Department of Water Resources grants, United States Environmental Protection Agency grants | | |
| **Additional Details** *(optional)* | | | | | |

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| **Mitigation Action** | In coordination with Caltrans District 4, advance the adaptation and enhancement of culverts, roadways, and bridges identified as high priority in the Caltrans District 4 Climate Change Vulnerability Assessment and Adaptation Plan, located within or adjacent to OneShoreline flood protection projects. | | | | |
| **Action Number** | FSLR-13 | **Goal(s) Addressed** | 1, 3, 4, 5 | **Prioritization Score** | 27/40 |
| **Year Added to the Plan** | 2021 | **Timeline** *(estimated)* | Ongoing | **Implementation Priority** | Medium |
| **Hazard(s) Mitigated** | Flood, Sea Level Rise, Severe Weather | | | | |
| **Project Status** | Continuing | If *No Longer Needed*, provide reason. | n/a | | |
| **Benefits** *(Loss Avoided)* | High | | | | |
| **Lead Agency / Organization** | OneShoreline | | | | |
| **Supporting Agency / Organization** *(If applicable)* | Caltrans, San Mateo County Transportation Authority, San Mateo County Municipalities | | | | |
| **Additional Participating Jurisdictions** *(If Applicable)* | n/a | | | | |
| **Estimated Cost** | High | **Potential Funding Source** | Caltrans grants, HMGP, FMA, EMPG, Federal Highway Administration Emergency Relief Program funds | | |
| **Additional Details** *(optional)* | | | | | |

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| **Mitigation Action** | Identify and pursue strategies to incorporate emergent groundwater hazards into project planning, design, and implementation, including findings from the San Francisco Estuary Institute Shallow Groundwater Response to Sea Level Rise Study. | | | | |
| **Action Number** | FSLR-14 | **Goal(s) Addressed** | n/a | **Prioritization Score** | n/a |
| **Year Added to the Plan** | 2021 | **Timeline** *(estimated)* | n/a | **Implementation Priority** | n/a |
| **Hazard(s) Mitigated** | Sea Level Rise | | | | |
| **Project Status** | No Longer Needed | If *No Longer Needed*, provide reason. | This mitigation action has been incorporated into mitigation action FSLR-4. | | |
| **Benefits** *(Loss Avoided)* | n/a | | | | |
| **Lead Agency / Organization** | n/a | | | | |
| **Supporting Agency / Organization** *(If applicable)* | n/a | | | | |
| **Additional Participating Jurisdictions** *(If Applicable)* | n/a | | | | |
| **Estimated Cost** | n/a | **Potential Funding Source** | n/a | | |
| **Additional Details** *(optional)* | | | | | |

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| **Mitigation Action** | Identify and pursue strategies to enhance planning and implementation of recycled water infrastructure in the vicinity of San Mateo County Flood and Sea Level Rise Resiliency District projects. | | | | |
| **Action Number** | FSLR-15 | **Goal(s) Addressed** | 1, 3, 5 | **Prioritization Score** | 27/40 |
| **Year Added to the Plan** | 2021 | **Timeline** *(estimated)* | Ongoing | **Implementation Priority** | Medium |
| **Hazard(s) Mitigated** | Drought | | | | |
| **Project Status** | Continuing | If *No Longer Needed*, provide reason. | n/a | | |
| **Benefits** *(Loss Avoided)* | Medium | | | | |
| **Lead Agency / Organization** | OneShoreline | | | | |
| **Supporting Agency / Organization** *(If applicable)* | San Mateo County Office of Sustainability, San Mateo County Municipalities | | | | |
| **Additional Participating Jurisdictions** *(If Applicable)* | n/a | | | | |
| **Estimated Cost** | High | **Potential Funding Source** | California Department of Water Resources grants, California Climate Bond, United States Environmental Protection Agency grants, United States Army Corps of Engineers funds, United States Bureau of Reclamation grants | | |
| **Additional Details** *(optional)* | | | | | |

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| **Mitigation Action** | Expand and enhance the Countywide flood early warning system by replacing the legacy platform, developing protocols to integrate data feeds with the San Mateo County Department of Emergency Management AlertSMC notification system, expanding monitoring sites and public-facing dashboards, and conducting community outreach to raise awareness of the system. | | | | |
| **Action Number** | FSLR-16 | **Goal(s) Addressed** | 1, 2, 3, 4, 5 | **Prioritization Score** | 38/40 |
| **Year Added to the Plan** | 2021 | **Timeline** *(estimated)* | Ongoing | **Implementation Priority** | High |
| **Hazard(s) Mitigated** | Flood, Sea Level Rise, Severe Weather | | | | |
| **Project Status** | Continuing | If *No Longer Needed*, provide reason. | n/a | | |
| **Benefits** *(Loss Avoided)* | High | | | | |
| **Lead Agency / Organization** | OneShoreline | | | | |
| **Supporting Agency / Organization** *(If applicable)* | San Mateo County Department of Emergency Management, San Mateo County Municipalities | | | | |
| **Additional Participating Jurisdictions** *(If Applicable)* | n/a | | | | |
| **Estimated Cost** | High | **Potential Funding Source** | Local General Fund (Staff Time) | | |
| **Additional Details** *(optional)* | | | | | |

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| **Mitigation Action** | Develop and institutionalize multi-jurisdictional Emergency Action Plans (EAPs) for the following watersheds, in coordination with all the affected jurisdictions and consistent with FEMA's Flood Emergency Action Planning guidelines:<br>• Bayfront Canal and Atherton Channel<br>• Belmont Creek<br>• Navigable Slough, Colma Creek, and San Bruno Creek | | | | |
| **Action Number** | FSLR-17 | **Goal(s) Addressed** | 1, 3, 4, 5 | **Prioritization Score** | 23/40 |
| **Year Added to the Plan** | 2021 | **Timeline** *(estimated)* | 4 to 5 years | **Implementation Priority** | Medium |
| **Hazard(s) Mitigated** | Flood, Sea Level Rise, Severe Weather | | | | |
| **Project Status** | In Progress | If *No Longer Needed*, provide reason. | n/a | | |
| **Benefits** *(Loss Avoided)* | Medium | | | | |
| **Lead Agency / Organization** | OneShoreline | | | | |
| **Supporting Agency / Organization** *(If applicable)* | San Mateo County Office of Resilience, Redwood City, City of Menlo Park, Town of Atherton, City of Belmont, City of San Carlos, City of South San Francisco, City of San Bruno, Daly City, Town of Colma, City of Pacifica | | | | |
| **Additional Participating Jurisdictions** *(If Applicable)* | n/a | | | | |
| **Estimated Cost** | High | **Potential Funding Source** | California Department of Water Resources grants | | |
| **Additional Details** *(optional)* | | | | | |

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| **Mitigation Action** | Advance planning and early design for a long-term shoreline resilience project for the Brisbane Baylands that protects adjacent communities and critical assets from sea level rise and severe weather (heavy rainfall) while enhancing wetland habitat, public recreation, and community connectivity. | | | | |
| **Action Number** | FSLR-18 | **Goal(s) Addressed** | 1, 3, 4, 5 | **Prioritization Score** | 34/40 |
| **Year Added to the Plan** | 2021 | **Timeline** *(estimated)* | 1 to 5 Years | **Implementation Priority** | High |
| **Hazard(s) Mitigated** | | Flood, Sea Level Rise, Severe Weather | | | |
| **Project Status** | | In Progress | If *No Longer Needed*, provide reason. | n/a | |
| **Benefits** *(Loss Avoided)* | | Medium | | | |
| **Lead Agency / Organization** | | OneShoreline | | | |
| **Supporting Agency / Organization** *(If applicable)* | | n/a | | | |
| **Additional Participating Jurisdictions** *(If Applicable)* | | n/a | | | |
| **Estimated Cost** | | High | **Potential Funding Source** | Ocean Protection Council SB 1 funds, San Francisco Bay Restoration Authority Measure AA funds | |
| **Additional Details** *(optional)* | | | | | |

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| **Mitigation Action** | Advance long-term resilience to sea level rise and severe weather (heavy rainfall) for the communities and critical assets adjacent to Colma Creek, San Bruno Creek, Navigable Slough, and nearby shoreline areas, and provide environmental, recreational, and community/connectivity enhancements where possible. | | | | |
| **Action Number** | FSLR-19 | **Goal(s) Addressed** | 1, 3, 4, 5 | **Prioritization Score** | 34/40 |
| **Year Added to the Plan** | 2021 | **Timeline** *(estimated)* | 1 to 5 years | **Implementation Priority** | High |
| **Hazard(s) Mitigated** | Flood, Sea Level Rise, Severe Weather | | | | |
| **Project Status** | In Progress | If *No Longer Needed*, provide reason. | n/a | | |
| **Benefits** *(Loss Avoided)* | Medium | | | | |
| **Lead Agency / Organization** | OneShoreline | | | | |
| **Supporting Agency / Organization** *(If applicable)* | n/a | | | | |
| **Additional Participating Jurisdictions** *(If Applicable)* | n/a | | | | |
| **Estimated Cost** | High | **Potential Funding Source** | Tax-Funded Flood Zones, San Francisco Bay Restoration Authority Measure AA, State Coastal Conservancy grants, United States Environmental Protection Agency grants, HMGP, FMA, United States Army Corps of Engineers funds | | |
| **Additional Details** *(optional)* | | | | | |

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| **Mitigation Action** | Execute and institutionalize collaborative maintenance agreements with neighboring jurisdictions to ensure the Colma Creek Channel maintains its designated flood conveyance capacity, which reduces the risk of flooding. | | | | |
| **Action Number** | FSLR-20 | **Goal(s) Addressed** | 1, 3, 5 | **Prioritization Score** | 37/40 |
| **Year Added to the Plan** | 2021 | **Timeline** *(estimated)* | Ongoing | **Implementation Priority** | High |
| **Hazard(s) Mitigated** | Flood, Sea Level Rise, Severe Weather | | | | |
| **Project Status** | Continuing | If *No Longer Needed*, provide reason. | n/a | | |
| **Benefits** *(Loss Avoided)* | High | | | | |
| **Lead Agency / Organization** | OneShoreline | | | | |
| **Supporting Agency / Organization** *(If applicable)* | City of South San Francisco, Town of Colma | | | | |
| **Additional Participating Jurisdictions** *(If Applicable)* | n/a | | | | |
| **Estimated Cost** | High | **Potential Funding Source** | Tax-Funded Flood Zones | | |
| **Additional Details** *(optional)* | | | | | |

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| **Mitigation Action** | Execute regional stormwater capture and flood mitigation projects to advance the long-term resilience of the towns of Hillsborough and Portola Valley to severe weather. This initiative will include regional stormwater capture projects that reduce downstream flooding while providing environmental, recreational, and community connectivity enhancements through the integration of nature-based solutions. | | | | |
| **Action Number** | FSLR-21 | **Goal(s) Addressed** | 1, 3, 4, 5 | **Prioritization Score** | 26/40 |
| **Year Added to the Plan** | 2021 | **Timeline** *(estimated)* | 4 to 5 Years | **Implementation Priority** | Medium |
| **Hazard(s) Mitigated** | Flood, Severe Weather | | | | |
| **Project Status** | In Progress | If *No Longer Needed*, provide reason. | n/a | | |
| **Benefits** *(Loss Avoided)* | Medium | | | | |
| **Lead Agency / Organization** | OneShoreline | | | | |
| **Supporting Agency / Organization** *(If applicable)* | Town of Hillsborough, Town of Portola Valley, City/County Association of Governments of San Mateo County, San Mateo Resource Conservation District | | | | |
| **Additional Participating Jurisdictions** *(If Applicable)* | n/a | | | | |
| **Estimated Cost** | Medium | **Potential Funding Source** | Property/Vehicle Fees, Stormwater Fees, Municipal Capital Project Funding, Caltrans grants, California Department of Water Resources grants | | |
| **Additional Details** *(optional)* | | | | | |

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| **Mitigation Action** | Plan, design, permit, and construct a shoreline protection project that raises the elevations of levees, creek banks, and shorelines along the Millbrae and Burlingame San Francisco Bay shoreline to provide long-term resilience to sea level rise and extreme storms, while delivering habitat, recreation, and connectivity co-benefits. Coordinate with the San Francisco International Airport and adjacent development to align with and extend airport shoreline improvements. | | | | |
| **Action Number** | FSLR-22 | **Goal(s) Addressed** | 1, 3, 4, 5 | **Prioritization Score** | 37/40 |
| **Year Added to the Plan** | 2021 | **Timeline** *(estimated)* | 1 to 5 Years | **Implementation Priority** | High |
| **Hazard(s) Mitigated** | Flood, Sea Level Rise, Severe Weather, Tsunami | | | | |
| **Project Status** | In Progress | If *No Longer Needed*, provide reason. | n/a | | |
| **Benefits** *(Loss Avoided)* | High | | | | |
| **Lead Agency / Organization** | OneShoreline | | | | |
| **Supporting Agency / Organization** *(If applicable)* | City of Burlingame, City of Millbrae, San Francisco International Airport | | | | |
| **Additional Participating Jurisdictions** *(If Applicable)* | n/a | | | | |
| **Estimated Cost** | High | **Potential Funding Source** | California State Coastal Conservancy grants, HMGP, FMA, California Climate Proposition 4 Bond | | |
| **Additional Details** *(optional)* | | | | | |

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| **Mitigation Action** | Complete design, environmental clearance, and construction of a shoreline protection project that raises the Millbrae and Burlingame shoreline and creek bank elevations in the area, which will provide long-term resilience to sea level rise and extreme storms, as well as provide environmental, recreation, community/connectivity enhancements where possible. This includes partnering with San Francisco International Airport and other nearby developments to align this project with adjacent shoreline improvements. | | | | |
| **Action Number** | FSLR-23 | **Goal(s) Addressed** | n/a | **Prioritization Score** | n/a |
| **Year Added to the Plan** | 2021 | **Timeline** *(estimated)* | n/a | **Implementation Priority** | n/a |
| **Hazard(s) Mitigated** | Flood, Sea Level Rise, Severe Weather | | | | |
| **Project Status** | No Longer Needed | If *No Longer Needed*, provide reason. | This mitigation action was combined with FSLR-22. | | |
| **Benefits** *(Loss Avoided)* | n/a | | | | |
| **Lead Agency / Organization** | n/a | | | | |
| **Supporting Agency / Organization** *(If applicable)* | n/a | | | | |
| **Additional Participating Jurisdictions** *(If Applicable)* | n/a | | | | |
| **Estimated Cost** | n/a | **Potential Funding Source** | n/a | | |
| **Additional Details** *(optional)* | | | | | |

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| **Mitigation Action** | Support the City of San Mateo in advancing long-term resilience to sea level rise and severe weather for the San Francisco Bay shoreline within the City, as well as provide environmental, recreational, and community connectivity enhancements where possible. This includes conducting an updated levee assessment to identify and prioritize improvements. | | | | |
| **Action Number** | FSLR-24 | **Goal(s) Addressed** | 1, 3, 4, 5 | **Prioritization Score** | 27/40 |
| **Year Added to the Plan** | 2021 | **Timeline** *(estimated)* | 1 to 5 Years | **Implementation Priority** | Medium |
| **Hazard(s) Mitigated** | Flood, Sea Level Rise, Severe Weather, Tsunami | | | | |
| **Project Status** | In Progress | If *No Longer Needed*, provide reason. | n/a | | |
| **Benefits** *(Loss Avoided)* | Medium | | | | |
| **Lead Agency / Organization** | OneShoreline | | | | |
| **Supporting Agency / Organization** *(If applicable)* | City of San Mateo | | | | |
| **Additional Participating Jurisdictions** *(If Applicable)* | n/a | | | | |
| **Estimated Cost** | High | **Potential Funding Source** | Caltrans grants | | |
| **Additional Details** *(optional)* | | | | | |

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| **Mitigation Action** | Support the integration and alignment of the Foster City Levee Improvements Project with adjacent shoreline improvements, including potential improvements of Baywinds Park. | | | | |
| **Action Number** | FSLR-25 | **Goal(s) Addressed** | 1, 3, 4, 5 | **Prioritization Score** | 24/40 |
| **Year Added to the Plan** | 2021 | **Timeline** *(estimated)* | 4 to 5 Years | **Implementation Priority** | Medium |
| **Hazard(s) Mitigated** | Flood, Sea Level Rise, Severe Weather | | | | |
| **Project Status** | In Progress | If *No Longer Needed*, provide reason. | n/a | | |
| **Benefits** *(Loss Avoided)* | Medium | | | | |
| **Lead Agency / Organization** | OneShoreline | | | | |
| **Supporting Agency / Organization** *(If applicable)* | n/a | | | | |
| **Additional Participating Jurisdictions** *(If Applicable)* | Foster City, City of San Mateo | | | | |
| **Estimated Cost** | Medium | **Potential Funding Source** | Local General Fund (Staff Time) | | |
| **Additional Details** *(optional)* | | | | | |

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| **Mitigation Action** | Plan, design, permit, and construct a shoreline protection project that provides long-term resilience to sea level rise and severe weather for the Redwood Shores peninsula and its residential, commercial, and environmental assets, while delivering habitat, recreation, and trail co-benefits. | | | | |
| **Action Number** | FSLR-26 | **Goal(s) Addressed** | 1, 3, 4, 5 | **Prioritization Score** | 27/40 |
| **Year Added to the Plan** | 2021 | **Timeline** *(estimated)* | 1 to 5 Years | **Implementation Priority** | Medium |
| **Hazard(s) Mitigated** | Flood, Sea Level Rise, Severe Weather | | | | |
| **Project Status** | In Progress | If *No Longer Needed*, provide reason. | n/a | | |
| **Benefits** *(Loss Avoided)* | Medium | | | | |
| **Lead Agency / Organization** | OneShoreline | | | | |
| **Supporting Agency / Organization** *(If applicable)* | Redwood City, City of San Carlos, City of Belmont, Silicon Valley Clean Water | | | | |
| **Additional Participating Jurisdictions** *(If Applicable)* | n/a | | | | |
| **Estimated Cost** | High | **Potential Funding Source** | HMGP | | |
| **Additional Details** *(optional)* | | | | | |

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| **Mitigation Action** | Complete design, environmental clearance, and construction of a shoreline protection project along the Redwood Shores peninsula, which will provide long-term resilience to sea level rise and extreme storms, as well as provide environmental, recreation, community/connectivity enhancements where possible. | | | | |
| **Action Number** | FSLR-27 | **Goal(s) Addressed** | n/a | **Prioritization Score** | n/a |
| **Year Added to the Plan** | 2021 | **Timeline** *(estimated)* | n/a | **Implementation Priority** | n/a |
| **Hazard(s) Mitigated** | Flood, Sea Level Rise, Severe Weather | | | | |
| **Project Status** | No Longer Needed | If *No Longer Needed*, provide reason. | This mitigation action was combined with FSLR-26. | | |
| **Benefits** *(Loss Avoided)* | n/a | | | | |
| **Lead Agency / Organization** | n/a | | | | |
| **Supporting Agency / Organization** *(If applicable)* | n/a | | | | |
| **Additional Participating Jurisdictions** *(If Applicable)* | n/a | | | | |
| **Estimated Cost** | n/a | **Potential Funding Source** | n/a | | |
| **Additional Details** *(optional)* | | | | | |

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| **Mitigation Action** | Advance planning and design for long-term flood and sea level rise resilience improvements along the San Francisco Bay shoreline between Whipple Avenue (Redwood City) and Marsh Road (City of Menlo Park), while protecting residential communities, the Bayfront Expressway corridor, and ecological resources in this segment. | | | | |
| **Action Number** | FSLR-28 | **Goal(s) Addressed** | 1, 3, 4, 5 | **Prioritization Score** | 31/40 |
| **Year Added to the Plan** | 2021 | **Timeline** *(estimated)* | 1 to 5 Years | **Implementation Priority** | High |
| **Hazard(s) Mitigated** | Flood, Sea Level Rise, Severe Weather | | | | |
| **Project Status** | In Progress | If *No Longer Needed*, provide reason. | n/a | | |
| **Benefits** *(Loss Avoided)* | High | | | | |
| **Lead Agency / Organization** | OneShoreline | | | | |
| **Supporting Agency / Organization** *(If applicable)* | Redwood City, City of Menlo Park | | | | |
| **Additional Participating Jurisdictions** *(If Applicable)* | n/a | | | | |
| **Estimated Cost** | High | **Potential Funding Source** | Private Developers, Caltrans grants, California Proposition 68 Bond, California Proposition 4 Bond, HMGP, FMA, United States Department of Housing and Urban Development grants | | |
| **Additional Details** *(optional)* | | | | | |

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| **Mitigation Action** | Oversee the long-term operational reliability and mitigation efforts of the Bayfront Canal and Atherton Channel Flood Protection and Ecosystem Restoration Project. | | | | |
| **Action Number** | FSLR-29 | **Goal(s) Addressed** | 1, 3, 4, 5 | **Prioritization Score** | 37/40 |
| **Year Added to the Plan** | 2021 | **Timeline** *(estimated)* | Ongoing | **Implementation Priority** | High |
| **Hazard(s) Mitigated** | | Flood, Sea Level Rise, Severe Weather | | | |
| **Project Status** | | Continuing | If *No Longer Needed*, provide reason. | n/a | |
| **Benefits** *(Loss Avoided)* | | High | | | |
| **Lead Agency / Organization** | | OneShoreline | | | |
| **Supporting Agency / Organization** *(If applicable)* | | Redwood City, City of Menlo Park, Town of Atherton, San Mateo County Sustainability Department | | | |
| **Additional Participating Jurisdictions** *(If Applicable)* | | n/a | | | |
| **Estimated Cost** | | Medium | **Potential Funding Source** | Municipal Capital Project Funding, California Department of Water Resources grants | |
| **Additional Details** *(optional)* | | | | | |

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| **Mitigation Action** | Support the planning, design, and construction of long-term flood control and sea level rise resilience improvements along the San Francisquito Creek corridor and its San Francisco Bay outlet, including creek improvements, levee construction, and shoreline enhancements. | | | | |
| **Action Number** | FSLR-30 | **Goal(s) Addressed** | 1, 3, 4, 5 | **Prioritization Score** | 29/40 |
| **Year Added to the Plan** | 2021 | **Timeline** *(estimated)* | 1 to 5 Years | **Implementation Priority** | High |
| **Hazard(s) Mitigated** | | Flood, Sea Level Rise, Severe Weather | | | |
| **Project Status** | | In Progress | If *No Longer Needed*, provide reason. | n/a | |
| **Benefits** *(Loss Avoided)* | | Medium | | | |
| **Lead Agency / Organization** | | OneShoreline | | | |
| **Supporting Agency / Organization** *(If applicable)* | | San Francisquito Creek Joint Power Authority, City of Menlo Park, City of East Palo Alto, Santa Clara County | | | |
| **Additional Participating Jurisdictions** *(If Applicable)* | | n/a | | | |
| **Estimated Cost** | | High | **Potential Funding Source** | Municipal Capital Project Funding, California Department of Water Resources, HMGP | |
| **Additional Details** *(optional)* | | | | | |

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| **Mitigation Action** | Complete permitting and construction of the Vista Grande Drainage Basin Improvement Project, which will address storm-related flooding in the Vista Grande Drainage Basin, while providing the additional benefit of augmenting the water level of Lake Merced. | | | | |
| **Action Number** | FSLR-31 | **Goal(s) Addressed** | n/a | **Prioritization Score** | n/a |
| **Year Added to the Plan** | 2021 | **Timeline** *(estimated)* | n/a | **Implementation Priority** | n/a |
| **Hazard(s) Mitigated** | Flood, Sea Level Rise, Severe Weather | | | | |
| **Project Status** | No Longer Needed | If *No Longer Needed*, provide reason. | Daly City has completed permitting and will be leading the construction of this project | | |
| **Benefits** *(Loss Avoided)* | n/a | | | | |
| **Lead Agency / Organization** | n/a | | | | |
| **Supporting Agency / Organization** *(If applicable)* | n/a | | | | |
| **Additional Participating Jurisdictions** *(If Applicable)* | n/a | | | | |
| **Estimated Cost** | n/a | **Potential Funding Source** | n/a | | |
| **Additional Details** *(optional)* | | | | | |

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| **Mitigation Action** | Advance planning and early design for long-term coastal resilience improvements in the Mussel Rock area of Daly City, including protection of coastal bluffs, the Mussel Rock County Park, and the adjacent closed landfill. | | | | |
| **Action Number** | FSLR-32 | **Goal(s) Addressed** | 1, 3, 4, 5 | **Prioritization Score** | 20/40 |
| **Year Added to the Plan** | 2021 | **Timeline** *(estimated)* | 1 to 5 Years | **Implementation Priority** | Medium |
| **Hazard(s) Mitigated** | Flood, Sea Level Rise, Severe Weather | | | | |
| **Project Status** | In Progress | If *No Longer Needed*, provide reason. | n/a | | |
| **Benefits** *(Loss Avoided)* | Medium | | | | |
| **Lead Agency / Organization** | OneShoreline | | | | |
| **Supporting Agency / Organization** *(If applicable)* | Daly City, San Mateo Resource Conservation District | | | | |
| **Additional Participating Jurisdictions** *(If Applicable)* | n/a | | | | |
| **Estimated Cost** | High | **Potential Funding Source** | Municipal Capital Project Funding, Measure K, California State Coastal Conservancy grants, California Proposition 68 Bond, HMGP, United States Army Corps of Engineers grants | | |
| **Additional Details** *(optional)* | | | | | |

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| **Mitigation Action** | Support the City of Pacifica in advancing long-term resilience to sea level rise, severe weather, and coastal erosion for the communities and critical assets in the vicinity of the Beach Boulevard Seawall and Promenade, and other areas of Pacifica's coastline, as well as provide environmental, recreation, and community connectivity enhancements, where possible. | | | | |
| **Action Number** | FSLR-33 | **Goal(s) Addressed** | 1, 3, 4, 5 | **Prioritization Score** | 22/40 |
| **Year Added to the Plan** | 2021 | **Timeline** *(estimated)* | 1 to 5 Years | **Implementation Priority** | Medium |
| **Hazard(s) Mitigated** | Flood, Sea Level Rise, Severe Weather | | | | |
| **Project Status** | In Progress | If *No Longer Needed*, provide reason. | n/a | | |
| **Benefits** *(Loss Avoided)* | Medium | | | | |
| **Lead Agency / Organization** | OneShoreline | | | | |
| **Supporting Agency / Organization** *(If applicable)* | City of Pacifica, San Mateo Resource Conservation District | | | | |
| **Additional Participating Jurisdictions** *(If Applicable)* | n/a | | | | |
| **Estimated Cost** | High | **Potential Funding Source** | HMGP, United States Army Corps of Engineers grants, Municipal Capital Project Funding | | |
| **Additional Details** *(optional)* | | | | | |

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| **Mitigation Action** | Support planning and design for long-term resilience improvements to Pillar Point Harbor and the surrounding Half Moon Bay coastline, addressing sea level rise, extreme storm surge, and coastal erosion risks to harbor infrastructure, fishing industry operations, recreational facilities, and adjacent communities. Planning shall reference the Harbor District Master Plan and California Coastal Commission permit requirements, as applicable. | | | | |
| **Action Number** | FSLR-34 | **Goal(s) Addressed** | 1, 3, 4, 5 | **Prioritization Score** | 23/40 |
| **Year Added to the Plan** | 2021 | **Timeline** *(estimated)* | 1 to 5 Years | **Implementation Priority** | Medium |
| **Hazard(s) Mitigated** | Flood, Sea Level Rise, Severe Weather | | | | |
| **Project Status** | In Progress | If *No Longer Needed*, provide reason. | n/a | | |
| **Benefits** *(Loss Avoided)* | Medium | | | | |
| **Lead Agency / Organization** | OneShoreline | | | | |
| **Supporting Agency / Organization** *(If applicable)* | City of Half Moon Bay, San Mateo County Harbor District, San Mateo Resource Conservation District | | | | |
| **Additional Participating Jurisdictions** *(If Applicable)* | n/a | | | | |
| **Estimated Cost** | Medium | **Potential Funding Source** | Measure K, California State Coastal Conservancy grants, California Proposition 68 Bond, HMGP, United States Army Corps of Engineers grants | | |
| **Additional Details** *(optional)* | | | | | |

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| **Mitigation Action** | Advance the long-term resilience of the California Coastal Trail in San Mateo County by identifying and addressing the segments most vulnerable to coastal erosion, sea level rise, and extreme storm damage. This project may include trail rerouting to safer inland alignments, slope stabilization, bluff armoring where consistent with Coastal Commission policy, and improved drainage. Coordinate with Caltrans District 4 for trail segments adjacent to State Highway infrastructure (refer to FSLR-13). | | | | |
| **Action Number** | FSLR-35 | **Goal(s) Addressed** | 1, 3, 4, 5 | **Prioritization Score** | 26/40 |
| **Year Added to the Plan** | 2021 | **Timeline** *(estimated)* | 1 to 5 Years | **Implementation Priority** | High |
| **Hazard(s) Mitigated** | Flood, Sea Level Rise, Severe Weather | | | | |
| **Project Status** | In Progress | If *No Longer Needed*, provide reason. | n/a | | |
| **Benefits** *(Loss Avoided)* | Medium | | | | |
| **Lead Agency / Organization** | OneShoreline | | | | |
| **Supporting Agency / Organization** *(If applicable)* | California State Parks, California Coastal Conservancy, San Mateo County Parks, Caltrans, San Mateo Resource Conservation District | | | | |
| **Additional Participating Jurisdictions** *(If Applicable)* | n/a | | | | |
| **Estimated Cost** | High | **Potential Funding Source** | Measure K, California State Coastal Conservancy grants, California Proposition 68 Bond, HMGP, United States Army Corps of Engineers grants | | |
| **Additional Details** *(optional)* | | | | | |

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| **Mitigation Action** | Support jurisdictions in completing design, environmental clearance, and construction of an erosion stabilization project of the Seymour Ditch, while providing environmental, recreational, and community connectivity enhancements, where possible. | | | | |
| **Action Number** | FSLR-36 | **Goal(s) Addressed** | 1, 3, 4, 5 | **Prioritization Score** | 26/40 |
| **Year Added to the Plan** | 2021 | **Timeline** *(estimated)* | 1 to 5 Years | **Implementation Priority** | Medium |
| **Hazard(s) Mitigated** | Flood, Sea Level Rise, Severe Weather | | | | |
| **Project Status** | In Progress | If *No Longer Needed*, provide reason. | n/a | | |
| **Benefits** *(Loss Avoided)* | High | | | | |
| **Lead Agency / Organization** | OneShoreline | | | | |
| **Supporting Agency / Organization** *(If applicable)* | City of Half Moon Bay, San Mateo County Resource Conservation District, Peninsula Open Space Trust | | | | |
| **Additional Participating Jurisdictions** *(If Applicable)* | n/a | | | | |
| **Estimated Cost** | High | **Potential Funding Source** | Local General Fund (Staff Time) | | |
| **Additional Details** *(optional)* | | | | | |

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|---|---|---|---|---|---|
| **Mitigation Action** | Advance planning and design for long-term flood, coastal erosion, and post-wildfire debris flow resilience improvements along the Butano Creek, Pescadero Creek, and adjacent Pacific coastline in southern San Mateo County, protecting rural communities, agricultural operations, State Beach facilities, and US Highway 1 from compounding hazard risks intensified by the CZU Lightning Complex Fire. | | | | |
| **Action Number** | FSLR-37 | **Goal(s) Addressed** | 1, 3, 4, 5 | **Prioritization Score** | 30/40 |
| **Year Added to the Plan** | 2021 | **Timeline** *(estimated)* | 1 to 5 Years | **Implementation Priority** | High |
| **Hazard(s) Mitigated** | Flood, Sea Level Rise, Severe Weather, Wildfire | | | | |
| **Project Status** | In Progress | If *No Longer Needed*, provide reason. | n/a | | |
| **Benefits** *(Loss Avoided)* | Medium | | | | |
| **Lead Agency / Organization** | OneShoreline | | | | |
| **Supporting Agency / Organization** *(If applicable)* | San Mateo Resource Conservation District, San Mateo Consolidated Fire Department | | | | |
| **Additional Participating Jurisdictions** *(If Applicable)* | n/a | | | | |
| **Estimated Cost** | High | **Potential Funding Source** | Measure K, California State Coastal Conservancy grants, California Proposition 68 Bond, California Proposition 4 Bond, HMGP, FMA, United States Army Corps of Engineers grants | | |
| **Additional Details** *(optional)* | | | | | |

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| **Mitigation Action** | Identify and pursue strategies to address debris flow, landslide, and flood risks, particularly protecting post-fire priority areas sites identified in the Watershed Emergency Response Team Assessment following the CZU Lightning Complex Fire, and implementing recommendations of the County debris flow study. | | | | |
| **Action Number** | FSLR-38 | **Goal(s) Addressed** | n/a | **Prioritization Score** | n/a |
| **Year Added to the Plan** | 2021 | **Timeline** *(estimated)* | n/a | **Implementation Priority** | n/a |
| **Hazard(s) Mitigated** | Flood, Landslide, Sea Level Rise, Severe Weather, Wildfire | | | | |
| **Project Status** | No Longer Needed | If *No Longer Needed*, provide reason. | This action is not OneShoreline's responsibility. Refer to mitigation action SRC-14 under the San Mateo Resource Conservation District Annex. | | |
| **Benefits** *(Loss Avoided)* | n/a | | | | |
| **Lead Agency / Organization** | n/a | | | | |
| **Supporting Agency / Organization** *(If applicable)* | n/a | | | | |
| **Additional Participating Jurisdictions** *(If Applicable)* | n/a | | | | |
| **Estimated Cost** | n/a | **Potential Funding Source** | n/a | | |
| **Additional Details** *(optional)* | | | | | |

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|---|---|---|---|---|---|
| **Mitigation Action** | Develop a pilot natural hazard awareness curriculum module for grades six through eight in San Mateo County schools, with the goal of institutionalizing it. The module should cover flood, sea level rise, wildfire, and earthquake risks. | | | | |
| **Action Number** | FSLR-39 | **Goal(s) Addressed** | 1, 2 | **Prioritization Score** | 38/40 |
| **Year Added to the Plan** | 2021 | **Timeline** *(estimated)* | 3 to 5 Years | **Implementation Priority** | High |
| **Hazard(s) Mitigated** | Drought, Earthquake, Flood, Sea Level Rise, Severe Weather, Wildfire | | | | |
| **Project Status** | In Progress | If *No Longer Needed*, provide reason. | n/a | | |
| **Benefits** *(Loss Avoided)* | Medium | | | | |
| **Lead Agency / Organization** | OneShoreline | | | | |
| **Supporting Agency / Organization** *(If applicable)* | San Mateo County Office of Education, San Mateo County Sustainability Department | | | | |
| **Additional Participating Jurisdictions** *(If Applicable)* | n/a | | | | |
| **Estimated Cost** | Medium | **Potential Funding Source** | Local General Fund (Staff Time), Measure K | | |
| **Additional Details** *(optional)* | Complete curriculum development within two (2) years and pilot in at least three (3) schools within three (3) years of the LHMP adoption. Make curriculum materials freely available to all County school districts. | | | | |

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|---|---|---|---|---|---|
| **Mitigation Action** | Build and sustain OneShoreline's organizational capability and capacity to plan, fund, and implement hazard mitigation. This includes:<br>• Designating a dedicated grant coordinator to support member jurisdictions in applying for HMGP, FMA, and other federal funding.<br>• Recruiting and retaining qualified planning, engineering, and project management staff.<br>• Conducting ongoing public engagement and stakeholder outreach as part of project development.<br>• Actively participating in regional climate resilience coalitions such as Bay Adapt, the SF Bay Restoration Authority, and ABAG/MTC programs.<br>• Continuously identifying and pursuing funding for new mitigation projects based on evolving risk conditions and partnerships. | | | | |
| **Action Number** | FSLR-40 | **Goal(s) Addressed** | 1, 2, 3, 4, 5 | **Prioritization Score** | 38/40 |
| **Year Added to the Plan** | 2021 | **Timeline** *(estimated)* | Ongoing | **Implementation Priority** | High |
| **Hazard(s) Mitigated** | | Flood, Sea Level Rise, Severe Weather | | | |
| **Project Status** | | Continuing | If *No Longer Needed*, provide reason. | n/a | |
| **Benefits** *(Loss Avoided)* | | Medium | | | |
| **Lead Agency / Organization** | | OneShoreline | | | |
| **Supporting Agency / Organization** *(If applicable)* | | n/a | | | |
| **Additional Participating Jurisdictions** *(If Applicable)* | | n/a | | | |
| **Estimated Cost** | | Medium | **Potential Funding Source** | Local General Fund (Staff Time) | |
| **Additional Details** *(optional)* | | | | | |

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|---|---|---|---|---|---|
| **Mitigation Action** | Coordinate with regional Bay Area climate resilience and adaptation planning coalitions. | | | | |
| **Action Number** | FSLR-41 | **Goal(s) Addressed** | n/a | **Prioritization Score** | n/a |
| **Year Added to the Plan** | 2021 | **Timeline** *(estimated)* | n/a | **Implementation Priority** | n/a |
| **Hazard(s) Mitigated** | | Flood, Severe Weather | | | |
| **Project Status** | | No Longer Needed | If *No Longer Needed*, provide reason. | This mitigation action has been combined with FSLR-8. | |
| **Benefits** *(Loss Avoided)* | | n/a | | | |
| **Lead Agency / Organization** | | n/a | | | |
| **Supporting Agency / Organization** *(If applicable)* | | n/a | | | |
| **Additional Participating Jurisdictions** *(If Applicable)* | | n/a | | | |
| **Estimated Cost** | | n/a | **Potential Funding Source** | n/a | |
| **Additional Details** *(optional)* | | | | | |

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|---|---|---|---|---|---|
| **Mitigation Action** | Advance the planning, design, permitting, and implementation of nature-based shoreline resilience solutions (e.g., tidal marsh restoration, living shorelines, horizontal levees, beach nourishment, dune restoration, and riparian buffer enhancement) along both the San Francisco Bay shoreline and the Pacific Coast. | | | | |
| **Action Number** | FSLR-42 | **Goal(s) Addressed** | 1, 3, 4 | **Prioritization Score** | 38/40 |
| **Year Added to the Plan** | 2026 | **Timeline** *(estimated)* | 4 to 5 Years | **Implementation Priority** | High |
| **Hazard(s) Mitigated** | Flood, Sea Level Rise, Severe Weather | | | | |
| **Project Status** | New | If *No Longer Needed*, provide reason. | n/a | | |
| **Benefits** *(Loss Avoided)* | Medium | | | | |
| **Lead Agency / Organization** | OneShoreline | | | | |
| **Supporting Agency / Organization** *(If applicable)* | City of Brisbane, City of Pacifica | | | | |
| **Additional Participating Jurisdictions** *(If Applicable)* | n/a | | | | |
| **Estimated Cost** | High | **Potential Funding Source** | San Francisco Bay Restoration Authority Measure AA, California State Parks grants | | |
| **Additional Details** *(optional)* | | | | | |

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| **Mitigation Action** | Advance planning, design, environmental review, and construction of a coordinated long-term shoreline resilience project and policies protecting the communities of Belmont, San Carlos, Redwood City, Menlo Park, and East Palo Alto from sea level rise, extreme storm surge, and Bay flooding. | | | | |
| **Action Number** | FSLR-43 | **Goal(s) Addressed** | 1, 2, 3, 4, 5 | **Prioritization Score** | 40/40 |
| **Year Added to the Plan** | 2026 | **Timeline** *(estimated)* | 4 to 5 Years | **Implementation Priority** | High |
| **Hazard(s) Mitigated** | Flood, Sea Level Rise, Severe Weather | | | | |
| **Project Status** | New | If *No Longer Needed*, provide reason. | n/a | | |
| **Benefits** *(Loss Avoided)* | Medium | | | | |
| **Lead Agency / Organization** | OneShoreline | | | | |
| **Supporting Agency / Organization** *(If applicable)* | City of Belmont, City of San Carlos, Redwood City, City of Menlo Park, City of East Palo Alto, San Mateo County Sustainability Department | | | | |
| **Additional Participating Jurisdictions** *(If Applicable)* | n/a | | | | |
| **Estimated Cost** | High | **Potential Funding Source** | Ocean Protection Council SB1 grant, Measure K | | |
| **Additional Details** *(optional)* | | | | | |

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| **Mitigation Action** | Institutionalize a phased program to reduce flood risk to the Sewer Authority Mid-Coastside (SAM) wastewater treatment facility from Pilarcitos Creek flooding, groundwater inundation, and long-term sea level rise. | | | | |
| **Action Number** | FSLR-44 | **Goal(s) Addressed** | 1, 3, 4 | **Prioritization Score** | 39/40 |
| **Year Added to the Plan** | 2026 | **Timeline** *(estimated)* | 4 to 5 Years | **Implementation Priority** | High |
| **Hazard(s) Mitigated** | Flood, Sea Level Rise, Severe Weather | | | | |
| **Project Status** | New | If *No Longer Needed*, provide reason. | n/a | | |
| **Benefits** *(Loss Avoided)* | Medium | | | | |
| **Lead Agency / Organization** | OneShoreline | | | | |
| **Supporting Agency / Organization** *(If applicable)* | Sewer Authority Mid-Coastside, City of Half Moon Bay, United States Army Corps of Engineers | | | | |
| **Additional Participating Jurisdictions** *(If Applicable)* | n/a | | | | |
| **Estimated Cost** | High | **Potential Funding Source** | HMGP, FMA | | |
| **Additional Details** *(optional)* | | | | | |

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| **Mitigation Action** | Advance a risk reduction program for residents of mobile home parks located in FEMA-designated Special Flood Hazard Areas and areas projected to be exposed to flooding from storm surge, extreme precipitation, and sea level rise. | | | | |
| **Action Number** | FSLR-45 | **Goal(s) Addressed** | 1, 3, 4 | **Prioritization Score** | 39/40 |
| **Year Added to the Plan** | 2026 | **Timeline** *(estimated)* | 1 to 5 Years | **Implementation Priority** | High |
| **Hazard(s) Mitigated** | Flood, Sea Level Rise, Severe Weather | | | | |
| **Project Status** | New | If *No Longer Needed*, provide reason. | n/a | | |
| **Benefits** *(Loss Avoided)* | High | | | | |
| **Lead Agency / Organization** | OneShoreline | | | | |
| **Supporting Agency / Organization** *(If applicable)* | n/a | | | | |
| **Additional Participating Jurisdictions** *(If Applicable)* | n/a | | | | |
| **Estimated Cost** | High | **Potential Funding Source** | State Budget Item (SB-104 Budget Acts of 2022 and 2023) | | |
| **Additional Details** *(optional)* | | | | | |

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| **Mitigation Action** | Support the County of San Mateo and small community water systems in unincorporated areas (including the San Mateo County coastside, rural South County, and mountain communities) in assessing and improving the drought resilience of their water supplies, including small water system infrastructure, groundwater-dependent domestic wells, and mutual water companies. | | | | |
| **Action Number** | FSLR-46 | **Goal(s) Addressed** | 1, 3, 4, 5 | **Prioritization Score** | 34/40 |
| **Year Added to the Plan** | 2026 | **Timeline** *(estimated)* | Ongoing | **Implementation Priority** | High |
| **Hazard(s) Mitigated** | Drought | | | | |
| **Project Status** | New | If *No Longer Needed*, provide reason. | n/a | | |
| **Benefits** *(Loss Avoided)* | Medium | | | | |
| **Lead Agency / Organization** | OneShoreline | | | | |
| **Supporting Agency / Organization** *(If applicable)* | San Mateo Resource Conservation District | | | | |
| **Additional Participating Jurisdictions** *(If Applicable)* | n/a | | | | |
| **Estimated Cost** | High | **Potential Funding Source** | California Department of Water Resources grants | | |
| **Additional Details** *(optional)* | | | | | |

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| **Mitigation Action** | Advance a long-term adaptation plan for the Sharp Park area (encompassing the golf course, Laguna Salada wetland, Sanchez Creek, the adjacent seawall, and the surrounding Pacifica neighborhoods) that reduces flood risk to neighboring residential and commercial properties from ocean inundation, creek flooding, and sea level rise. | | | | |
| **Action Number** | FSLR-47 | **Goal(s) Addressed** | 1, 3, 4 | **Prioritization Score** | 35/40 |
| **Year Added to the Plan** | 2026 | **Timeline** *(estimated)* | 4 to 5 Years | **Implementation Priority** | High |
| **Hazard(s) Mitigated** | Flood, Sea Level Rise, Severe Weather | | | | |
| **Project Status** | New | If *No Longer Needed*, provide reason. | n/a | | |
| **Benefits** *(Loss Avoided)* | Medium | | | | |
| **Lead Agency / Organization** | OneShoreline | | | | |
| **Supporting Agency / Organization** *(If applicable)* | City of Pacifica, City and County of San Francisco | | | | |
| **Additional Participating Jurisdictions** *(If Applicable)* | n/a | | | | |
| **Estimated Cost** | High | **Potential Funding Source** | HMGP, FMA, California Department of Water Resources grants | | |
| **Additional Details** *(optional)* | | | | | |

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|---|---|---|---|---|---|
| **Mitigation Action** | Institutionalize a countywide routine management program for flood-prone creeks and drainage channels to reduce flood risk by ensuring the design conveyance capacity remains, preventing debris accumulation and vegetation blockages, and identifying and addressing structural deficiencies before they become emergencies. | | | | |
| **Action Number** | FSLR-48 | **Goal(s) Addressed** | 1, 3, 4 | **Prioritization Score** | 37/40 |
| **Year Added to the Plan** | 2026 | **Timeline** *(estimated)* | Ongoing | **Implementation Priority** | High |
| **Hazard(s) Mitigated** | | Flood, Sea Level Rise, Severe Weather | | | |
| **Project Status** | | New | If *No Longer Needed*, provide reason. | n/a | |
| **Benefits** *(Loss Avoided)* | | High | | | |
| **Lead Agency / Organization** | | OneShoreline | | | |
| **Supporting Agency / Organization** *(If applicable)* | | San Mateo County Municipalities | | | |
| **Additional Participating Jurisdictions** *(If Applicable)* | | n/a | | | |
| **Estimated Cost** | | High | **Potential Funding Source** | Tax-Funded Flood Zones | |
| **Additional Details** *(optional)* | | | | | |

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| **Mitigation Action** | Identify and implement strategies to improve the insurability of homes in San Mateo County communities most affected by climate-driven hazards (e.g., flood, wildfire, and extreme storms) by working with local governments, insurers, state regulators, and community organizations to reduce coverage gaps, lower premiums, and expand access to insurance for properties in high-risk areas. | | | | |
| **Action Number** | FSLR-49 | **Goal(s) Addressed** | 1, 2, 4 | **Prioritization Score** | 36/40 |
| **Year Added to the Plan** | 2026 | **Timeline** *(estimated)* | Ongoing | **Implementation Priority** | High |
| **Hazard(s) Mitigated** | Flood, Sea Level Rise, Severe Weather, Wildfire | | | | |
| **Project Status** | New | If *No Longer Needed*, provide reason. | n/a | | |
| **Benefits** *(Loss Avoided)* | High | | | | |
| **Lead Agency / Organization** | OneShoreline | | | | |
| **Supporting Agency / Organization** *(If applicable)* | n/a | | | | |
| **Additional Participating Jurisdictions** *(If Applicable)* | n/a | | | | |
| **Estimated Cost** | High | **Potential Funding Source** | Local General Fund (Staff Time), Private Foundations grants/funds | | |
| **Additional Details** *(optional)* | | | | | |

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|---|---|---|---|---|---|
| **Mitigation Action** | Develop, publish, and support member jurisdiction adoption of Resilient Infrastructure Guidance documents establishing design standards, screening criteria, and planning requirements for new and significantly reconstructed public and private infrastructure in San Mateo County, so that capital investments are built to withstand projected climate conditions over their design life rather than historical conditions alone. | | | | |
| **Action Number** | FSLR-50 | **Goal(s) Addressed** | 1, 3, 4 | **Prioritization Score** | 39/40 |
| **Year Added to the Plan** | 2026 | **Timeline** *(estimated)* | 1 to 5 Years | **Implementation Priority** | High |
| **Hazard(s) Mitigated** | Flood, Sea Level Rise, Severe Weather, Wildfire | | | | |
| **Project Status** | New | If *No Longer Needed*, provide reason. | n/a | | |
| **Benefits** *(Loss Avoided)* | Medium | | | | |
| **Lead Agency / Organization** | OneShoreline | | | | |
| **Supporting Agency / Organization** *(If applicable)* | San Mateo Municipalities, Water and Wastewater Special Districts | | | | |
| **Additional Participating Jurisdictions** *(If Applicable)* | n/a | | | | |
| **Estimated Cost** | High | **Potential Funding Source** | Local General Fund (Staff Time), Measure K | | |
| **Additional Details** *(optional)* | | | | | |

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| **Mitigation Action** | In alignment with California Department of Fish and Wildlife guidelines, develop a Regional Conservation Investment Strategy that will identify projects and establish priorities for building resilience of natural resources, and to establish a pathway for advancing mitigation credits to facilitate implementation of projects with environmental impacts across San Mateo County | | | | |
| **Action Number** | FSLR-51 | **Goal(s) Addressed** | 1, 3, 4 | **Prioritization Score** | 38/40 |
| **Year Added to the Plan** | 2026 | **Timeline** *(estimated)* | 4 to 5 Years | **Implementation Priority** | High |
| **Hazard(s) Mitigated** | Dam Failure, Drought, Earthquake, Flood, Landslide, Sea Level Rise, Severe Weather, Tsunami, Wildfire | | | | |
| **Project Status** | New | If *No Longer Needed*, provide reason. | n/a | | |
| **Benefits** *(Loss Avoided)* | Medium | | | | |
| **Lead Agency / Organization** | OneShoreline | | | | |
| **Supporting Agency / Organization** *(If applicable)* | San Mateo Municipalities, San Mateo Resource Conservation District | | | | |
| **Additional Participating Jurisdictions** *(If Applicable)* | n/a | | | | |
| **Estimated Cost** | High | **Potential Funding Source** | California Department of Conservation Restoration grants, Caltrans Sustainable Transportation Planning grants | | |
| **Additional Details** *(optional)* | | | | | |

# APPENDIX A. HAZARD MAPS

[Maps are under development…]

# APPENDIX B. STAKEHOLDER AND PUBLIC ENGAGEMENT

*[Information and supporting documentation will be added after the Public Comment Period concludes.]*

# APPENDIX C. HAZARD RISK RANKING DETAILS

This appendix provides the details of the hazard ranking results presented in Section 9 of this Annex. For a comprehensive explanation of the risk assessment methodology used for the 2026 LHMP rankings, refer to Chapter 4 in **Volume 1** of this Plan.

## C.1. Probability of Occurrence

| Hazard Event | Probability of Occurrence | | Probability Factor | Weighted Factor |
|---|---|---|---|---|
| Dam Failure | Low | A significant hazard event is likely to occur within 100 years. | 1 | N/A |
| Drought | Medium | A significant hazard event is likely to occur within 25 years. | 2 | N/A |
| Earthquake | Medium | A significant hazard event is likely to occur within 25 years. | 2 | N/A |
| Riverine Flooding ***(Flood)*** | Medium | A significant hazard event is likely to occur within 25 years. | 2 | N/A |
| Urban/Flash Flooding ***(Flood)*** | High | A significant hazard event is likely to occur annually. | 3 | N/A |
| Coastal Flooding ***(Flood)*** | Medium | A significant hazard event is likely to occur within 25 years. | 2 | N/A |
| Landslide | Medium | A significant hazard event is likely to occur within 25 years. | 2 | N/A |
| Sea Level Rise | High | A significant hazard event is likely to occur annually. | 3 | N/A |
| Heavy Rainfall ***(Severe Weather)*** | High | A significant hazard event is likely to occur annually. | 3 | N/A |
| Heat Wave/Extreme Heat ***(Severe Weather)*** | High | A significant hazard event is likely to occur annually. | 3 | N/A |
| Fog ***(Severe Weather)*** | Low | A significant hazard event is likely to occur within 100 years. | 1 | N/A |
| Severe Thunderstorm ***(Severe Weather)*** | Medium | A significant hazard event is likely to occur within 25 years. | 2 | N/A |
| Tornado ***(Severe Weather)*** | Low | A significant hazard event is likely to occur within 100 years. | 1 | N/A |
| Strong Winds ***(Severe Weather)*** | High | A significant hazard event is likely to occur annually. | 3 | N/A |
| Tsunami | Low | A significant hazard event is likely to occur within 100 years. | 1 | N/A |
| Wildfire | Medium | A significant hazard event is likely to occur within 25 years. | 2 | N/A |

# C.2. Extent Factors

| Hazard Event | Extent Factor | Extent | | Extent Factor | Weighted Factor | Score |
|---|---|---|---|---|---|---|
| Dam Failure | ***Extent/Severity*** | Medium | Historical and/or probabilistic models/studies for this hazard indicate the possibility of a medium-intensity incident. | 2 | 3 | 6 |
| | ***Catastrophic*** | Medium | Medium potential that this hazard could be catastrophic. | 2 | 3 | 6 |
| Drought | ***Extent/Severity*** | Low | Historical and/or probabilistic models/studies for this hazard indicate the possibility of a low-intensity incident. | 1 | 3 | 3 |
| | ***Catastrophic*** | Low | Low potential that this hazard could be catastrophic. | 1 | 3 | 3 |
| Earthquake | ***Extent/Severity*** | High | Historical and/or probabilistic models/studies for this hazard indicate the possibility of a high-intensity incident. | 3 | 3 | 9 |
| | ***Catastrophic*** | High | High potential that this hazard could be catastrophic. | 3 | 3 | 9 |
| Riverine Flooding ***(Flood)*** | ***Extent/Severity*** | Medium | Historical and/or probabilistic models/studies for this hazard indicate the possibility of a medium-intensity incident. | 2 | 3 | 6 |
| | ***Catastrophic*** | Medium | Medium potential that this hazard could be catastrophic. | 2 | 3 | 6 |
| Urban/Flash Flooding ***(Flood)*** | ***Extent/Severity*** | High | Historical and/or probabilistic models/studies for this hazard indicate the possibility of a high-intensity incident. | 3 | 3 | 9 |
| | ***Catastrophic*** | High | High potential that this hazard could be catastrophic. | 3 | 3 | 9 |
| Coastal Flooding ***(Flood)*** | ***Extent/Severity*** | Medium | Historical and/or probabilistic models/studies for this hazard indicate the possibility of a medium-intensity incident. | 2 | 3 | 6 |
| | ***Catastrophic*** | Medium | Medium potential that this hazard could be catastrophic. | 2 | 3 | 6 |
| Landslide | ***Extent/Severity*** | Medium | Historical and/or probabilistic models/studies for this hazard indicate the possibility of a medium-intensity incident. | 2 | 3 | 6 |
| | ***Catastrophic*** | Low | Low potential that this hazard could be catastrophic. | 1 | 3 | 3 |

| Hazard Event | Extent Factor | Extent | | Extent Factor | Weighted Factor | Score |
|---|---|---|---|---|---|---|
| Sea Level Rise | ***Extent/Severity*** | Medium | Historical and/or probabilistic models/studies for this hazard indicate the possibility of a medium-intensity incident. | 2 | 3 | 6 |
| | ***Catastrophic*** | Medium | Medium potential that this hazard could be catastrophic. | 2 | 3 | 6 |
| Heavy Rainfall ***(Severe Weather)*** | ***Extent/Severity*** | Medium | Historical and/or probabilistic models/studies for this hazard indicate the possibility of a medium-intensity incident. | 2 | 3 | 6 |
| | ***Catastrophic*** | Medium | Medium potential that this hazard could be catastrophic. | 2 | 3 | 6 |
| Heat Wave/Extreme Heat ***(Severe Weather)*** | ***Extent/Severity*** | Medium | Historical and/or probabilistic models/studies for this hazard indicate the possibility of a medium-intensity incident. | 2 | 3 | 6 |
| | ***Catastrophic*** | Low | Low potential that this hazard could be catastrophic. | 1 | 3 | 3 |
| Fog ***(Severe Weather)*** | ***Extent/Severity*** | Low | Historical and/or probabilistic models/studies for this hazard indicate the possibility of a low-intensity incident. | 1 | 3 | 3 |
| | ***Catastrophic*** | Low | Low potential that this hazard could be catastrophic. | 1 | 3 | 3 |
| Severe Thunderstorm ***(Severe Weather)*** | ***Extent/Severity*** | Medium | Historical and/or probabilistic models/studies for this hazard indicate the possibility of a medium-intensity incident. | 2 | 3 | 6 |
| | ***Catastrophic*** | Medium | Medium potential that this hazard could be catastrophic. | 2 | 3 | 6 |
| Tornado ***(Severe Weather)*** | ***Extent/Severity*** | Low | Historical and/or probabilistic models/studies for this hazard indicate the possibility of a low-intensity incident. | 1 | 3 | 3 |
| | ***Catastrophic*** | Low | Low potential that this hazard could be catastrophic. | 1 | 3 | 3 |
| Strong Winds ***(Severe Weather)*** | ***Extent/Severity*** | Medium | Historical and/or probabilistic models/studies for this hazard indicate the possibility of a medium-intensity incident. | 2 | 3 | 6 |
| | ***Catastrophic*** | Low | Low potential that this hazard could be catastrophic. | 1 | 3 | 3 |

| Hazard Event | Extent Factor | Extent | | Extent Factor | Weighted Factor | Score |
|---|---|---|---|---|---|---|
| Tsunami | ***Extent/Severity*** | Low | Historical and/or probabilistic models/studies for this hazard indicate the possibility of a low-intensity incident. | 1 | 3 | 3 |
| | ***Catastrophic*** | Low | Low potential that this hazard could be catastrophic. | 1 | 3 | 3 |
| Wildfire | ***Extent/Severity*** | High | Historical and/or probabilistic models/studies for this hazard indicate the possibility of a high-intensity incident. | 3 | 3 | 9 |
| | ***Catastrophic*** | High | High potential that this hazard could be catastrophic. | 3 | 3 | 9 |

# C.3. Vulnerability Factors

| Hazard Event | Vulnerability Factor | Vulnerability | | Vulnerability Factor | Weighted Factor | Score |
|---|---|---|---|---|---|---|
| Dam Failure | ***Population Exposure*** | Medium | 15% to 29% of the population is exposed to the hazard. | 2 | 3 | 6 |
| | ***Property Exposure*** | Medium | 10% to 24% of the total assessed property value is exposed to a hazard. | 2 | 1 | 2 |
| | ***Changes in Development*** | Low | Changes in development have increased the community's exposure to the hazard by 4% or less. | 1 | 1 | 1 |
| Drought | ***Population Exposure*** | High | 30% or more of the population is exposed to the hazard. | 3 | 3 | 9 |
| | ***Property Exposure*** | Low | 9% or less of the total assessed property value is exposed to a hazard. | 1 | 1 | 1 |
| | ***Changes in Development*** | Low | Changes in development have increased the community's exposure to the hazard by 4% or less. | 1 | 1 | 1 |
| Earthquake | ***Population Exposure*** | High | 30% or more of the population is exposed to the hazard. | 3 | 3 | 9 |
| | ***Property Exposure*** | High | 25% or more of the total assessed property value is exposed to the hazard. | 3 | 1 | 3 |
| | ***Changes in Development*** | Medium | Changes in development have increased the community's exposure to the hazard between 5% and 9%. | 2 | 1 | 2 |

| Hazard Event | Vulnerability Factor | Vulnerability | | Vulnerability Factor | Weighted Factor | Score |
|---|---|---|---|---|---|---|
| Riverine Flooding *(Flood)* | ***Population Exposure*** | Low | 14% or less of the population is exposed to the hazard. | 1 | 3 | 3 |
| | ***Property Exposure*** | High | 25% or more of the total assessed property value is exposed to the hazard. | 3 | 1 | 3 |
| | ***Changes in Development*** | Low | Changes in development have increased the community's exposure to the hazard by 4% or less. | 1 | 1 | 1 |
| Urban/Flash Flooding *(Flood)* | ***Population Exposure*** | High | 30% or more of the population is exposed to the hazard. | 3 | 3 | 9 |
| | ***Property Exposure*** | High | 25% or more of the total assessed property value is exposed to the hazard. | 3 | 1 | 3 |
| | ***Changes in Development*** | Medium | Changes in development have increased the community's exposure to the hazard between 5% and 9%. | 2 | 1 | 2 |
| Coastal Flooding *(Flood)* | ***Population Exposure*** | Low | 14% or less of the population is exposed to the hazard. | 1 | 3 | 3 |
| | ***Property Exposure*** | Medium | 10% to 24% of the total assessed property value is exposed to a hazard. | 2 | 1 | 2 |
| | ***Changes in Development*** | Low | Changes in development have increased the community's exposure to the hazard by 4% or less. | 1 | 1 | 1 |
| Landslide | ***Population Exposure*** | Medium | 15% to 29% of the population is exposed to the hazard. | 2 | 3 | 6 |
| | ***Property Exposure*** | Medium | 10% to 24% of the total assessed property value is exposed to a hazard. | 2 | 1 | 2 |
| | ***Changes in Development*** | Low | Changes in development have increased the community's exposure to the hazard by 4% or less. | 1 | 1 | 1 |
| Sea Level Rise | ***Population Exposure*** | Low | 14% or less of the population is exposed to the hazard. | 1 | 3 | 3 |
| | ***Property Exposure*** | High | 25% or more of the total assessed property value is exposed to the hazard. | 3 | 1 | 3 |
| | ***Changes in Development*** | Medium | Changes in development have increased the community's exposure to the hazard between 5% and 9%. | 2 | 1 | 2 |

| Hazard Event | Vulnerability Factor | Vulnerability | | Vulnerability Factor | Weighted Factor | Score |
|---|---|---|---|---|---|---|
| Heavy Rainfall *(Severe Weather)* | ***Population Exposure*** | High | 30% or more of the population is exposed to the hazard. | 3 | 3 | 9 |
| | ***Property Exposure*** | High | 25% or more of the total assessed property value is exposed to the hazard. | 3 | 1 | 3 |
| | ***Changes in Development*** | Low | Changes in development have increased the community's exposure to the hazard by 4% or less. | 1 | 1 | 1 |
| Heat Wave/Extreme Heat *(Severe Weather)* | ***Population Exposure*** | High | 30% or more of the population is exposed to the hazard. | 3 | 3 | 9 |
| | ***Property Exposure*** | No Vulnerability | None of the total assessed property value is exposed to a hazard. | 0 | 1 | 0 |
| | ***Changes in Development*** | Low | Changes in development have increased the community's exposure to the hazard by 4% or less. | 1 | 1 | 1 |
| Fog *(Severe Weather)* | ***Population Exposure*** | High | 30% or more of the population is exposed to the hazard. | 3 | 3 | 9 |
| | ***Property Exposure*** | No Vulnerability | None of the total assessed property value is exposed to a hazard. | 0 | 1 | 0 |
| | ***Changes in Development*** | No Vulnerability | Changes in development have had no effect and/or have decreased the community's exposure to the hazard. | 0 | 1 | 0 |
| Severe Thunderstorm *(Severe Weather)* | ***Population Exposure*** | High | 30% or more of the population is exposed to the hazard. | 3 | 3 | 9 |
| | ***Property Exposure*** | High | 25% or more of the total assessed property value is exposed to the hazard. | 3 | 1 | 3 |
| | ***Changes in Development*** | Low | Changes in development have increased the community's exposure to the hazard by 4% or less. | 1 | 1 | 1 |
| Tornado *(Severe Weather)* | ***Population Exposure*** | High | 30% or more of the population is exposed to the hazard. | 3 | 3 | 9 |
| | ***Property Exposure*** | High | 25% or more of the total assessed property value is exposed to the hazard. | 3 | 1 | 3 |
| | ***Changes in Development*** | Low | Changes in development have increased the community's exposure to the hazard by 4% or less. | 1 | 1 | 1 |

| Hazard Event | Vulnerability Factor | Vulnerability | | Vulnerability Factor | Weighted Factor | Score |
|---|---|---|---|---|---|---|
| Strong Winds *(Severe Weather)* | ***Population Exposure*** | High | 30% or more of the population is exposed to the hazard. | 3 | 3 | 9 |
| | ***Property Exposure*** | High | 25% or more of the total assessed property value is exposed to the hazard. | 3 | 1 | 3 |
| | ***Changes in Development*** | Low | Changes in development have increased the community's exposure to the hazard by 4% or less. | 1 | 1 | 1 |
| Tsunami | ***Population Exposure*** | Low | 14% or less of the population is exposed to the hazard. | 1 | 3 | 3 |
| | ***Property Exposure*** | Low | 9% or less of the total assessed property value is exposed to a hazard. | 1 | 1 | 1 |
| | ***Changes in Development*** | Low | Changes in development have increased the community's exposure to the hazard by 4% or less. | 1 | 1 | 1 |
| Wildfire | ***Population Exposure*** | Medium | 15% to 29% of the population is exposed to the hazard. | 2 | 3 | 6 |
| | ***Property Exposure*** | Medium | 10% to 24% of the total assessed property value is exposed to a hazard. | 2 | 1 | 2 |
| | ***Changes in Development*** | Medium | Changes in development have increased the community's exposure to the hazard between 5% and 9%. | 2 | 1 | 2 |

# C.4. Impact Factors

| Hazard Event | Impact Factor | Impact | | Impact Factor | Weighted Factor | Score |
|---|---|---|---|---|---|---|
| Dam Failure | ***Population and Life Safety*** | Medium | Populations exposed to this hazard are likely to experience some adverse impacts, such as injuries requiring acute medical care. | 2 | 3 | 6 |
| | ***Underserved Population*** | High | Underserved populations exposed to the hazard are likely to experience significant adverse/disproportionate impacts, such as fatalities and severe injuries. | 3 | 3 | 9 |
| | ***Property, Facilities, and Critical Infrastructure*** | Medium | More than $500,000 but less than $5 million in property, facilities, and infrastructure damage is expected from a single significant event, or damages are expected to occur to more than 5% but less than 15% of the property value within the jurisdiction. | 2 | 2 | 4 |
| | ***Economic*** | Medium | Total economic impact is likely to be greater than $100,000, but less than or equal to $10 million. | 2 | 1 | 2 |
| | ***Environmental*** | High | Environmental impact from a single significant event is likely to be substantial, requiring extensive outside resources and support; and/or repair, cleanup, restoration, and/or preservation work. | 3 | 1 | 3 |
| | ***Continuity of Operations/Delivery of Services*** | Medium | Impact lasting between 24 and 72 hours on the ability of the jurisdiction to meet the essential day-to-day operational demands and needs of the community from a single significant event. | 2 | 1 | 2 |
| | ***Future Development*** | Medium | Future development trends will increase the impacts of this hazard, but not significantly. | 2 | 1 | 2 |
| | ***Climate Change*** | No Impact | Climate change trends will not increase the impacts of this hazard. | 0 | 1 | 0 |

| Hazard Event | Impact Factor | Impact | | Impact Factor | Weighted Factor | Score |
|---|---|---|---|---|---|---|
| Drought | ***Population and Life Safety*** | Low | Populations exposed to this hazard are likely to experience minimal adverse impacts, such as ambulatory injuries. | 1 | 3 | 3 |
| | ***Underserved Population*** | Medium | Underserved populations exposed to the hazard are likely to experience some adverse/disproportionate impacts, such as injuries requiring acute medical care. | 2 | 3 | 6 |
| | ***Property, Facilities, and Critical Infrastructure*** | Low | Less than $500,000 in property, facilities, and infrastructure damages is expected from a single significant event, or damages are expected to occur to less than 5% of the property value within the jurisdiction. | 1 | 2 | 2 |
| | ***Economic*** | Medium | Total economic impact is likely to be greater than $100,000, but less than or equal to $10 million. | 2 | 1 | 2 |
| | ***Environmental*** | Medium | Environmental impact from a single significant event is likely to be localized, requiring some outside resources and support; and/or repair, cleanup, restoration, or preservation work. | 2 | 1 | 2 |
| | ***Continuity of Operations/Delivery of Services*** | Medium | Impact lasting between 24 and 72 hours on the ability of the jurisdiction to meet the essential day-to-day operational demands and needs of the community from a single significant event. | 2 | 1 | 2 |
| | ***Future Development*** | Medium | Future development trends will increase the impacts of this hazard, but not significantly. | 2 | 1 | 2 |
| | ***Climate Change*** | High | Climate Change trends will significantly increase the impacts of this hazard. | 3 | 1 | 3 |

| Hazard Event | Impact Factor | Impact | | Impact Factor | Weighted Factor | Score |
|---|---|---|---|---|---|---|
| Earthquake | ***Population and Life Safety*** | High | Populations exposed to this hazard are likely to experience significant adverse impacts, such as fatalities and severe injuries. | 3 | 3 | 9 |
| | ***Underserved Population*** | High | Underserved populations exposed to the hazard are likely to experience significant adverse/disproportionate impacts, such as fatalities and severe injuries. | 3 | 3 | 9 |
| | ***Property, Facilities, and Critical Infrastructure*** | High | More than $5 million in property, facilities, and infrastructure damage is expected from a single significant event, or damages are expected to occur to 15% or more of the property value within the jurisdiction. | 3 | 2 | 6 |
| | ***Economic*** | High | Total economic impact is likely to be greater than $10 million. | 3 | 1 | 3 |
| | ***Environmental*** | High | Environmental impact from a single significant event is likely to be substantial, requiring extensive outside resources and support; and/or repair, cleanup, restoration, and/or preservation work. | 3 | 1 | 3 |
| | ***Continuity of Operations/Delivery of Services*** | High | Impact lasting more than 72 hours on the ability of the jurisdiction to meet the essential day-to-day operational demands and needs of the community from a single significant event. | 3 | 1 | 3 |
| | ***Future Development*** | Medium | Future development trends will increase the impacts of this hazard, but not significantly. | 2 | 1 | 2 |
| | ***Climate Change*** | No Impact | Climate change trends will not increase the impacts of this hazard. | 0 | 1 | 0 |

| Hazard Event | Impact Factor | Impact | | Impact Factor | Weighted Factor | Score |
|---|---|---|---|---|---|---|
| Riverine Flooding *(Flood)* | ***Population and Life Safety*** | Medium | Populations exposed to this hazard are likely to experience some adverse impacts, such as injuries requiring acute medical care. | 2 | 3 | 6 |
| | ***Underserved Population*** | High | Underserved populations exposed to the hazard are likely to experience significant adverse/disproportionate impacts, such as fatalities and severe injuries. | 3 | 3 | 9 |
| | ***Property, Facilities, and Critical Infrastructure*** | High | More than $5 million in property, facilities, and infrastructure damage is expected from a single significant event, or damages are expected to occur to 15% or more of the property value within the jurisdiction. | 3 | 2 | 6 |
| | ***Economic*** | Medium | Total economic impact is likely to be greater than $100,000, but less than or equal to $10 million. | 2 | 1 | 2 |
| | ***Environmental*** | Medium | Environmental impact from a single significant event is likely to be localized, requiring some outside resources and support; and/or repair, cleanup, restoration, or preservation work. | 2 | 1 | 2 |
| | ***Continuity of Operations/Delivery of Services*** | Low | Impact lasting less than 24 hours on the ability of the jurisdiction to meet the essential day-to-day operational demands and needs of the community from a single significant event. | 1 | 1 | 1 |
| | ***Future Development*** | Low | Future development trends will minimally increase the impacts of this hazard. | 1 | 1 | 1 |
| | ***Climate Change*** | High | Climate Change trends will significantly increase the impacts of this hazard. | 3 | 1 | 3 |

| Hazard Event | Impact Factor | Impact | | Impact Factor | Weighted Factor | Score |
|---|---|---|---|---|---|---|
| Urban/Flash Flooding *(Flood)* | ***Population and Life Safety*** | Medium | Populations exposed to this hazard are likely to experience some adverse impacts, such as injuries requiring acute medical care. | 2 | 3 | 6 |
| | ***Underserved Population*** | High | Underserved populations exposed to the hazard are likely to experience significant adverse/disproportionate impacts, such as fatalities and severe injuries. | 3 | 3 | 9 |
| | ***Property, Facilities, and Critical Infrastructure*** | High | More than $5 million in property, facilities, and infrastructure damage is expected from a single significant event, or damages are expected to occur to 15% or more of the property value within the jurisdiction. | 3 | 2 | 6 |
| | ***Economic*** | Medium | Total economic impact is likely to be greater than $100,000, but less than or equal to $10 million. | 2 | 1 | 2 |
| | ***Environmental*** | Medium | Environmental impact from a single significant event is likely to be localized, requiring some outside resources and support; and/or repair, cleanup, restoration, or preservation work. | 2 | 1 | 2 |
| | ***Continuity of Operations/Delivery of Services*** | Medium | Impact lasting between 24 and 72 hours on the ability of the jurisdiction to meet the essential day-to-day operational demands and needs of the community from a single significant event. | 2 | 1 | 2 |
| | ***Future Development*** | Medium | Future development trends will increase the impacts of this hazard, but not significantly. | 2 | 1 | 2 |
| | ***Climate Change*** | High | Climate Change trends will significantly increase the impacts of this hazard. | 3 | 1 | 3 |

| Hazard Event | Impact Factor | Impact | | Impact Factor | Weighted Factor | Score |
|---|---|---|---|---|---|---|
| Coastal Flooding *(Flood)* | ***Population and Life Safety*** | Low | Populations exposed to this hazard are likely to experience minimal adverse impacts, such as ambulatory injuries. | 1 | 3 | 3 |
| | ***Underserved Population*** | Medium | Underserved populations exposed to the hazard are likely to experience some adverse/disproportionate impacts, such as injuries requiring acute medical care. | 2 | 3 | 6 |
| | ***Property, Facilities, and Critical Infrastructure*** | High | More than $5 million in property, facilities, and infrastructure damage is expected from a single significant event, or damages are expected to occur to 15% or more of the property value within the jurisdiction. | 3 | 2 | 6 |
| | ***Economic*** | Medium | Total economic impact is likely to be greater than $100,000, but less than or equal to $10 million. | 2 | 1 | 2 |
| | ***Environmental*** | Medium | Environmental impact from a single significant event is likely to be localized, requiring some outside resources and support; and/or repair, cleanup, restoration, or preservation work. | 2 | 1 | 2 |
| | ***Continuity of Operations/Delivery of Services*** | Medium | Impact lasting between 24 and 72 hours on the ability of the jurisdiction to meet the essential day-to-day operational demands and needs of the community from a single significant event. | 2 | 1 | 2 |
| | ***Future Development*** | Low | Future development trends will minimally increase the impacts of this hazard. | 1 | 1 | 1 |
| | ***Climate Change*** | High | Climate Change trends will significantly increase the impacts of this hazard. | 3 | 1 | 3 |

| Hazard Event | Impact Factor | Impact | | Impact Factor | Weighted Factor | Score |
|---|---|---|---|---|---|---|
| Landslide | ***Population and Life Safety*** | High | Populations exposed to this hazard are likely to experience significant adverse impacts, such as fatalities and severe injuries. | 3 | 3 | 9 |
| | ***Underserved Population*** | High | Underserved populations exposed to the hazard are likely to experience significant adverse/disproportionate impacts, such as fatalities and severe injuries. | 3 | 3 | 9 |
| | ***Property, Facilities, and Critical Infrastructure*** | Medium | More than $500,000 but less than $5 million in property, facilities, and infrastructure damage is expected from a single significant event, or damages are expected to occur to more than 5% but less than 15% of the property value within the jurisdiction. | 2 | 2 | 4 |
| | ***Economic*** | Medium | Total economic impact is likely to be greater than $100,000, but less than or equal to $10 million. | 2 | 1 | 2 |
| | ***Environmental*** | Medium | Environmental impact from a single significant event is likely to be localized, requiring some outside resources and support; and/or repair, cleanup, restoration, or preservation work. | 2 | 1 | 2 |
| | ***Continuity of Operations/Delivery of Services*** | Low | Impact lasting less than 24 hours on the ability of the jurisdiction to meet the essential day-to-day operational demands and needs of the community from a single significant event. | 1 | 1 | 1 |
| | ***Future Development*** | Low | Future development trends will minimally increase the impacts of this hazard. | 1 | 1 | 1 |
| | ***Climate Change*** | Medium | Climate Change trends will increase the impacts of this hazard, but not significantly. | 2 | 1 | 2 |

| Hazard Event | Impact Factor | Impact | | Impact Factor | Weighted Factor | Score |
|---|---|---|---|---|---|---|
| Sea Level Rise | ***Population and Life Safety*** | Medium | Populations exposed to this hazard are likely to experience some adverse impacts, such as injuries requiring acute medical care. | 2 | 3 | 6 |
| | ***Underserved Population*** | Medium | Underserved populations exposed to the hazard are likely to experience some adverse/disproportionate impacts, such as injuries requiring acute medical care. | 2 | 3 | 6 |
| | ***Property, Facilities, and Critical Infrastructure*** | High | More than $5 million in property, facilities, and infrastructure damage is expected from a single significant event, or damages are expected to occur to 15% or more of the property value within the jurisdiction. | 3 | 2 | 6 |
| | ***Economic*** | High | Total economic impact is likely to be greater than $10 million. | 3 | 1 | 3 |
| | ***Environmental*** | Medium | Environmental impact from a single significant event is likely to be localized, requiring some outside resources and support; and/or repair, cleanup, restoration, or preservation work. | 2 | 1 | 2 |
| | ***Continuity of Operations/Delivery of Services*** | No Impact | No impact on the ability of the jurisdiction to meet the essential day-to-day operational demands and needs of the community from a single significant event. | 0 | 1 | 0 |
| | ***Future Development*** | Low | Future development trends will minimally increase the impacts of this hazard. | 1 | 1 | 1 |
| | ***Climate Change*** | High | Climate Change trends will significantly increase the impacts of this hazard. | 3 | 1 | 3 |

| Hazard Event | Impact Factor | Impact | | Impact Factor | Weighted Factor | Score |
|---|---|---|---|---|---|---|
| Heavy Rainfall *(Severe Weather)* | ***Population and Life Safety*** | Low | Populations exposed to this hazard are likely to experience minimal adverse impacts, such as ambulatory injuries. | 1 | 3 | 3 |
| | ***Underserved Population*** | Medium | Underserved populations exposed to the hazard are likely to experience some adverse/disproportionate impacts, such as injuries requiring acute medical care. | 2 | 3 | 6 |
| | ***Property, Facilities, and Critical Infrastructure*** | Medium | More than $500,000 but less than $5 million in property, facilities, and infrastructure damage is expected from a single significant event, or damages are expected to occur to more than 5% but less than 15% of the property value within the jurisdiction. | 2 | 2 | 4 |
| | ***Economic*** | Medium | Total economic impact is likely to be greater than $100,000, but less than or equal to $10 million. | 2 | 1 | 2 |
| | ***Environmental*** | Medium | Environmental impact from a single significant event is likely to be localized, requiring some outside resources and support; and/or repair, cleanup, restoration, or preservation work. | 2 | 1 | 2 |
| | ***Continuity of Operations/Delivery of Services*** | Medium | Impact lasting between 24 and 72 hours on the ability of the jurisdiction to meet the essential day-to-day operational demands and needs of the community from a single significant event. | 2 | 1 | 2 |
| | ***Future Development*** | Medium | Future development trends will increase the impacts of this hazard, but not significantly. | 2 | 1 | 2 |
| | ***Climate Change*** | Medium | Climate Change trends will increase the impacts of this hazard, but not significantly. | 2 | 1 | 2 |

| Hazard Event | Impact Factor | Impact | | Impact Factor | Weighted Factor | Score |
|---|---|---|---|---|---|---|
| Heat Wave/Extreme Heat ***(Severe Weather)*** | ***Population and Life Safety*** | Low | Populations exposed to this hazard are likely to experience minimal adverse impacts, such as ambulatory injuries. | 1 | 3 | 3 |
| | ***Underserved Population*** | Medium | Underserved populations exposed to the hazard are likely to experience some adverse/disproportionate impacts, such as injuries requiring acute medical care. | 2 | 3 | 6 |
| | ***Property, Facilities, and Critical Infrastructure*** | No Impact | Little to no property, facilities, and infrastructure damage is expected from a single significant event. | 0 | 2 | 0 |
| | ***Economic*** | Low | Total economic impact is not likely to be greater than $100,000. | 1 | 1 | 1 |
| | ***Environmental*** | Low | Environmental impact from a single significant event is likely to be minimal, requiring little to no outside resources and support; and/or minimal repair, cleanup, restoration, or preservation work. | 1 | 1 | 1 |
| | ***Continuity of Operations/Delivery of Services*** | No Impact | No impact on the ability of the jurisdiction to meet the essential day-to-day operational demands and needs of the community from a single significant event. | 0 | 1 | 0 |
| | ***Future Development*** | Low | Future development trends will minimally increase the impacts of this hazard. | 1 | 1 | 1 |
| | ***Climate Change*** | High | Climate Change trends will significantly increase the impacts of this hazard. | 3 | 1 | 3 |

| Hazard Event | Impact Factor | Impact | | Impact Factor | Weighted Factor | Score |
|---|---|---|---|---|---|---|
| Fog *(Severe Weather)* | ***Population and Life Safety*** | Low | Populations exposed to this hazard are likely to experience minimal adverse impacts, such as ambulatory injuries. | 1 | 3 | 3 |
| | ***Underserved Population*** | Low | Underserved populations exposed to the hazard are likely to experience minimal adverse/disproportionate impacts, such as ambulatory injuries. | 1 | 3 | 3 |
| | ***Property, Facilities, and Critical Infrastructure*** | Low | Less than $500,000 in property, facilities, and infrastructure damages is expected from a single significant event, or damages are expected to occur to less than 5% of the property value within the jurisdiction. | 1 | 2 | 2 |
| | ***Economic*** | Low | Total economic impact is not likely to be greater than $100,000. | 1 | 1 | 1 |
| | ***Environmental*** | Low | Environmental impact from a single significant event is likely to be minimal, requiring little to no outside resources and support; and/or minimal repair, cleanup, restoration, or preservation work. | 1 | 1 | 1 |
| | ***Continuity of Operations/Delivery of Services*** | Low | Impact lasting less than 24 hours on the ability of the jurisdiction to meet the essential day-to-day operational demands and needs of the community from a single significant event. | 1 | 1 | 1 |
| | ***Future Development*** | No Impact | Future development trends will not increase the impacts of this hazard, and/or may even decrease it. | 0 | 1 | 0 |
| | ***Climate Change*** | No Impact | Climate change trends will not increase the impacts of this hazard. | 0 | 1 | 0 |

| Hazard Event | Impact Factor | Impact | | Impact Factor | Weighted Factor | Score |
|---|---|---|---|---|---|---|
| Severe Thunderstorm *(Severe Weather)* | ***Population and Life Safety*** | Low | Populations exposed to this hazard are likely to experience minimal adverse impacts, such as ambulatory injuries. | 1 | 3 | 3 |
| | ***Underserved Population*** | Medium | Underserved populations exposed to the hazard are likely to experience some adverse/disproportionate impacts, such as injuries requiring acute medical care. | 2 | 3 | 6 |
| | ***Property, Facilities, and Critical Infrastructure*** | Medium | More than $500,000 but less than $5 million in property, facilities, and infrastructure damage is expected from a single significant event, or damages are expected to occur to more than 5% but less than 15% of the property value within the jurisdiction. | 2 | 2 | 4 |
| | ***Economic*** | Medium | Total economic impact is likely to be greater than $100,000, but less than or equal to $10 million. | 2 | 1 | 2 |
| | ***Environmental*** | Medium | Environmental impact from a single significant event is likely to be localized, requiring some outside resources and support; and/or repair, cleanup, restoration, or preservation work. | 2 | 1 | 2 |
| | ***Continuity of Operations/Delivery of Services*** | Low | Impact lasting less than 24 hours on the ability of the jurisdiction to meet the essential day-to-day operational demands and needs of the community from a single significant event. | 1 | 1 | 1 |
| | ***Future Development*** | Medium | Future development trends will increase the impacts of this hazard, but not significantly. | 2 | 1 | 2 |
| | ***Climate Change*** | Low | Climate Change trends will minimally increase the impacts of this hazard. | 1 | 1 | 1 |

| Hazard Event | Impact Factor | Impact | | Impact Factor | Weighted Factor | Score |
|---|---|---|---|---|---|---|
| Tornado *(Severe Weather)* | ***Population and Life Safety*** | Low | Populations exposed to this hazard are likely to experience minimal adverse impacts, such as ambulatory injuries. | 1 | 3 | 3 |
| | ***Underserved Population*** | Low | Underserved populations exposed to the hazard are likely to experience minimal adverse/disproportionate impacts, such as ambulatory injuries. | 1 | 3 | 3 |
| | ***Property, Facilities, and Critical Infrastructure*** | Low | Less than $500,000 in property, facilities, and infrastructure damages is expected from a single significant event, or damages are expected to occur to less than 5% of the property value within the jurisdiction. | 1 | 2 | 2 |
| | ***Economic*** | Medium | Total economic impact is likely to be greater than $100,000, but less than or equal to $10 million. | 2 | 1 | 2 |
| | ***Environmental*** | Low | Environmental impact from a single significant event is likely to be minimal, requiring little to no outside resources and support; and/or minimal repair, cleanup, restoration, or preservation work. | 1 | 1 | 1 |
| | ***Continuity of Operations/Delivery of Services*** | Low | Impact lasting less than 24 hours on the ability of the jurisdiction to meet the essential day-to-day operational demands and needs of the community from a single significant event. | 1 | 1 | 1 |
| | ***Future Development*** | Low | Future development trends will minimally increase the impacts of this hazard. | 1 | 1 | 1 |
| | ***Climate Change*** | Low | Climate Change trends will minimally increase the impacts of this hazard. | 1 | 1 | 1 |

| Hazard Event | Impact Factor | Impact | | Impact Factor | Weighted Factor | Score |
|---|---|---|---|---|---|---|
| Strong Winds *(Severe Weather)* | ***Population and Life Safety*** | Medium | Populations exposed to this hazard are likely to experience some adverse impacts, such as injuries requiring acute medical care. | 2 | 3 | 6 |
| | ***Underserved Population*** | Medium | Underserved populations exposed to the hazard are likely to experience some adverse/disproportionate impacts, such as injuries requiring acute medical care. | 2 | 3 | 6 |
| | ***Property, Facilities, and Critical Infrastructure*** | Medium | More than $500,000 but less than $5 million in property, facilities, and infrastructure damage is expected from a single significant event, or damages are expected to occur to more than 5% but less than 15% of the property value within the jurisdiction. | 2 | 2 | 4 |
| | ***Economic*** | Medium | Total economic impact is likely to be greater than $100,000, but less than or equal to $10 million. | 2 | 1 | 2 |
| | ***Environmental*** | Low | Environmental impact from a single significant event is likely to be minimal, requiring little to no outside resources and support; and/or minimal repair, cleanup, restoration, or preservation work. | 1 | 1 | 1 |
| | ***Continuity of Operations/Delivery of Services*** | Low | Impact lasting less than 24 hours on the ability of the jurisdiction to meet the essential day-to-day operational demands and needs of the community from a single significant event. | 1 | 1 | 1 |
| | ***Future Development*** | Low | Future development trends will minimally increase the impacts of this hazard. | 1 | 1 | 1 |
| | ***Climate Change*** | Low | Climate Change trends will minimally increase the impacts of this hazard. | 1 | 1 | 1 |

| Hazard Event | Impact Factor | Impact | | Impact Factor | Weighted Factor | Score |
|---|---|---|---|---|---|---|
| Tsunami | ***Population and Life Safety*** | Low | Populations exposed to this hazard are likely to experience minimal adverse impacts, such as ambulatory injuries. | 1 | 3 | 3 |
| | ***Underserved Population*** | Low | Underserved populations exposed to the hazard are likely to experience minimal adverse/disproportionate impacts, such as ambulatory injuries. | 1 | 3 | 3 |
| | ***Property, Facilities, and Critical Infrastructure*** | Low | Less than $500,000 in property, facilities, and infrastructure damages is expected from a single significant event, or damages are expected to occur to less than 5% of the property value within the jurisdiction. | 1 | 2 | 2 |
| | ***Economic*** | Low | Total economic impact is not likely to be greater than $100,000. | 1 | 1 | 1 |
| | ***Environmental*** | Low | Environmental impact from a single significant event is likely to be minimal, requiring little to no outside resources and support; and/or minimal repair, cleanup, restoration, or preservation work. | 1 | 1 | 1 |
| | ***Continuity of Operations/Delivery of Services*** | Low | Impact lasting less than 24 hours on the ability of the jurisdiction to meet the essential day-to-day operational demands and needs of the community from a single significant event. | 1 | 1 | 1 |
| | ***Future Development*** | Low | Future development trends will minimally increase the impacts of this hazard. | 1 | 1 | 1 |
| | ***Climate Change*** | No Impact | Climate change trends will not increase the impacts of this hazard. | 0 | 1 | 0 |

| Hazard Event | Impact Factor | Impact | | Impact Factor | Weighted Factor | Score |
|---|---|---|---|---|---|---|
| Wildfire | ***Population and Life Safety*** | Medium | Populations exposed to this hazard are likely to experience some adverse impacts, such as injuries requiring acute medical care. | 2 | 3 | 6 |
| | ***Underserved Population*** | High | Underserved populations exposed to the hazard are likely to experience significant adverse/disproportionate impacts, such as fatalities and severe injuries. | 3 | 3 | 9 |
| | ***Property, Facilities, and Critical Infrastructure*** | High | More than $5 million in property, facilities, and infrastructure damage is expected from a single significant event, or damages are expected to occur to 15% or more of the property value within the jurisdiction. | 3 | 2 | 6 |
| | ***Economic*** | Medium | Total economic impact is likely to be greater than $100,000, but less than or equal to $10 million. | 2 | 1 | 2 |
| | ***Environmental*** | High | Environmental impact from a single significant event is likely to be substantial, requiring extensive outside resources and support; and/or repair, cleanup, restoration, and/or preservation work. | 3 | 1 | 3 |
| | ***Continuity of Operations/Delivery of Services*** | High | Impact lasting more than 72 hours on the ability of the jurisdiction to meet the essential day-to-day operational demands and needs of the community from a single significant event. | 3 | 1 | 3 |
| | ***Future Development*** | Medium | Future development trends will increase the impacts of this hazard, but not significantly. | 2 | 1 | 2 |
| | ***Climate Change*** | High | Climate Change trends will significantly increase the impacts of this hazard. | 3 | 1 | 3 |

# APPENDIX D. PLAN ADOPTION

*[Placeholder for adoption documentation after State and FEMA approval]*