

# 5. Goals, Policies, and Implementation Measures

The following table includes **specific actions** that address Oakland’s safety issues as identified in the prior sections. Each of the actions includes a “Responsibility” field, which indicates departments or agencies that will lead and/or coordinate on implementing the action, as well as a “Timeframe” field, which indicates the general period of time in which the action will be targeted for completion. The timeframes are defined as follows:

- Short: 0-5 years
- Medium: 5-10 years
- Long: 10+ years
- Ongoing: Efforts currently underway that the City will continue to implement

POLICY	ACTION
<b>GOAL SAF-1: MINIMIZE THE RISK TO LIFE AND PROPERTY CAUSED BY SEISMIC AND GEOLOGIC HAZARDS.</b>	
<p><b>SAF-1.1 Seismic Hazards.</b> Develop and continue to enforce and carry out regulations and programs to reduce seismic hazards and hazards from seismically triggered phenomena. Prioritize programs in areas of highest seismic risk and seismic vulnerability.</p>	<p><b>SAF-A.1.</b> Continue to require site-specific geologic reports for development proposals in the Hayward Fault Special Studies Zone, or Zones of Required Investigation, as shown in <b>Figure SAF-1</b>. Restrict development within 50 feet of the fault trace.</p>
<p><b>SAF-1.2 Structural Hazards.</b> Continue, enhance or develop regulations and programs designed to minimize seismically related structural hazards from new and existing buildings.</p>	<p><b>Responsibility:</b> Planning &amp; Building <b>Timeframe:</b> Ongoing</p>
<p><b>SAF-1.3 Limit Development in Hazardous Areas and Minimize Erosion.</b> Minimize threat to structures and humans by limiting development in areas subject to landslides or other geologic threat and undertake efforts to limit erosion from new development.</p>	<p><b>SAF-A.2.</b> Ensure on a continual basis that the City’s geologic-hazard mapping is up-to-date.</p> <p><b>Responsibility:</b> Planning &amp; Building <b>Timeframe:</b> Ongoing</p>
<p><b>SAF-1.4 Seismic Hazard Coordination.</b> Work with other public agencies to reduce potential damage from earthquakes to “lifeline” utility, economic, and transportation systems, including Caltrans; BART; PG&amp;E, EBMUD, and other utilities providers, the Port of Oakland, and others.</p>	<p><b>SAF-A.3.</b> Regulate development by slope categories and continue to enforce provisions that require geotechnical reports and soil hazards investigations be made in areas prone to landslides as shown in <b>Figure SAF-2</b> as part of project proposals.</p> <p><b>Responsibility:</b> Planning &amp; Building <b>Timeframe:</b> Ongoing</p>
	<p><b>SAF-A.4.</b> Continue to enforce ordinances for grading, erosion, and sedimentation; provisions under the creek protection, storm water management and discharge control ordinance; and regulations for site-design and source control techniques for peak storm-water runoff flows and landslide and erosion impacts from increased runoff volumes as shown in <b>Figure SAF-2</b>.</p> <p><b>Responsibility:</b> Planning and Building for project requiring permits, including Creek Protection Permits, Public Works, Watershed and Stormwater Management Division for non-permitted work. <b>Timeframe</b> Ongoing</p>

POLICY	ACTION
<b>GOAL SAF-1: MINIMIZE THE RISK TO LIFE AND PROPERTY CAUSED BY SEISMIC AND GEOLOGIC HAZARDS.</b>	
	<p><b>SAF-A.5.</b> Design fire-preventive vegetation-management techniques and practices for creeksides and high-slope areas that align with practices designed to stabilize hillsides, prevent erosion and sedimentation to help prevent landslide and erosion hazards.</p> <p><b>Responsibility:</b> Fire Department, Public Works <b>Timeframe:</b> Medium</p> <p><b>SAF-A.6.</b> Continue implementation of the Mandatory Soft Story Retrofit Program and explore expansion of the retrofit program to include an inventory of buildings with non-ductile and tilt-up concrete construction, and further consider a recommendation to develop a new Ordinance or amend the existing Ordinance. Invest in and seek grant funding to support the seismic retrofit structures within the city, prioritizing socially vulnerable neighborhoods shown in <b>Figure SAF-1</b>. Within these areas, prioritize low-income homeowners and landlords that provide affordable housing.</p> <p><b>Responsibility:</b> Planning &amp; Building, Housing and Community Development <b>Timeframe:</b> Ongoing</p>
<b>GOAL SAF-2: PROACTIVELY PREVENT URBAN FIRES AND EXPOSURE TO WILDFIRE AND PROTECT COMMUNITY MEMBERS AND PROPERTY FROM FIRE DANGER.</b>	
<p><b>SAF-2.1 Structural Fires.</b> Continue, enhance, or implement programs that seek to reduce the risk of structural fires. Prioritize programs in frontline communities at highest seismic and fire risk.</p>	<p><b>SAF-A.7.</b> Undertake a program to reduce fire load in VHFHSZ, such as through removal of non-native, highly combustible trees such as eucalyptus in fire susceptible areas. Consider methods—such as establishment of a progressive special vegetation management zone fees—to provide ongoing revenue for additional efforts for vegetation management, including building and maintaining community fire breaks. The City will work with local Fire Safe Councils and other community organizations to educate the public and implement this program.</p> <p><b>Responsibility:</b> Fire Department <b>Timeframe:</b> Medium</p>
<p><b>SAF-2.2 Vegetation and Urban Forest Management.</b> Manage vegetation and the urban forest to reduce combustible load, erosion, and other risks exacerbated by climate change.</p> <ul style="list-style-type: none"> <li>• Adopt and fully implement a Vegetation Management Plan for high-fire risk areas. Continue to update and enforce the Oakland Fire Code to require building owners in high-risk areas to maintain defensible space and implement fire prevention measures. As part of the Vegetation Management Plan, build partnerships with and consult indigenous groups on sacred burning, selective harvest, non-commercial thinning, and other traditional fire suppression techniques.</li> <li>• Implement the Urban Forest Master Plan, a comprehensive, area-wide urban canopy and vegetation plan that identifies locations where trees can be added and maintained, such as parks, streets, and rights-of-way. As a follow-up action, proactively address soil sequestration of carbon and water in frontline communities most affected by wildfire and other climate risks. See <i>Environmental Justice Element policy EJ-6.16 for other urban forest objectives</i>.</li> <li>• Prioritize the use of greenbelts as a nature-based solution to reduce the risk of wildfire by identifying strategic locations for new greenbelts, especially in frontline communities.</li> </ul>	<p><b>SAF-A.8.</b> Adopt and amend as needed updated versions of the California building and fire codes (including Fire Safe Regulations) and local housing code so that optimal fire-protection standards are used in new development and renovation projects. Projects in Very High Fire Hazard Severity zones and the Wildland Urban Interface are required to include higher fire-rated construction.</p> <p><b>Responsibility:</b> Planning &amp; Building <b>Timeframe:</b> Medium</p> <p><b>SAF-A.9.</b> Continue to review development proposals to ensure that they incorporate required and appropriate fire-mitigation measures, including adequate provisions for occupant evacuation, and access by fire-fighting personnel and equipment.</p> <p><b>Responsibility:</b> Planning &amp; Building, Fire Department <b>Timeframe:</b> Ongoing</p>

POLICY	ACTION
<p><b>SAF-2.3 Development in the Very High Fire Hazard Severity Zone (VHFHSZ).</b> Prioritize development in areas with existing adequate road networks, evacuation routes, and water infrastructure. Require any new development in the Very High Fire Hazard Severity Zone to prepare a Fire Protection Plan that minimizes risks by:</p> <ul style="list-style-type: none"> <li>Assessing site-specific characteristics such as topography, slope, vegetation type, wind patterns, etc., as part of risk analysis.</li> <li>Determination of fire response capability, including the assistance of local fire protection agencies, and availability of local resources.</li> <li>Siting and designing development to avoid hazardous locations (e.g., through community fire breaks) to the extent feasible.</li> <li>Incorporating fuel modification and brush clearance techniques in accordance with applicable fire safety requirements (including fuel breaks and their maintenance) and carried out in a manner which reduces impacts to environmentally sensitive habitat to the maximum feasible extent.</li> <li>Using fire-resistant building materials and design features, such as visible signage, consistent with the adopted Municipal Code and Fire and Building Code standards (including Fire Safe Regulations as minimum standard).</li> <li>Using fire-retardant, native plant species in landscaping.</li> <li>Complying with established standards and specifications for fuel modification, visible home and street addressing and signage, defensible space, access and egress, and water facilities.</li> <li>Banning generators and fuel storage (e.g., for generators) in VHFHSZ.</li> <li>Requiring street improvements to comply with minimum fire road access standards.</li> <li>Disallowing new residential development/subdivisions in areas with less than two evacuation routes (as shown in <b>Figure SAF-13b</b>), unless a development were to be able to provide additional connections to ameliorate this condition.</li> <li>Following the most recent California Fire Code as adopted and amended.</li> <li>Participating in the City's fire safety and public education efforts related to requirements for development, property maintenance, and emergency preparedness.</li> </ul>	<p><b>SAF-A.10.</b> Compile a list of high-rise and high-occupancy buildings which are deemed to be particularly susceptible to fire hazards, due to their age or construction materials. Determine an expeditious timeline for the fire safety inspection of all such structures. Prioritize areas and financial assistance for fire safety retrofits based on racial equity and vulnerability criteria, including lower income households, mobility-impaired residents, families with small children, and older adults.</p> <p><b>Responsibility:</b> Planning &amp; Building, Fire Department <b>Timeframe:</b> Medium</p> <p><b>SAF-A.11.</b> Continue to conduct periodic fire-safety inspections of commercial, multi-family, and institutional buildings. Prioritize inspections among areas at high risk and high vulnerability, including lower-income households, areas with greater percentages of mobility-impaired residents, families with small children, and older adults.</p> <p><b>Responsibility:</b> Planning &amp; Building, Fire Department <b>Timeframe:</b> Ongoing</p> <p><b>SAF-A.12.</b> Explore grant opportunities to create a program that provides residents of EJ communities with portable indoor air filters during wildfires.</p> <p><b>Responsibility:</b> Planning &amp; Building, Fire Department <b>Timeframe:</b> Ongoing</p> <p><b>SAF-A.13.</b> Adopt an ordinance requiring local development standards to meet or exceed SRA Fire Safe Regulations and Fire Hazard Reduction Around Buildings and Structures Regulations in the SRA and VHFHSZ. Ensure all new development and/or redevelopment in the SRA, LRA, and VHFHSZ meets or exceeds the California Fire Code (CFC), California Building Code (CBC), and Board of Forestry and Fire Protection Fire Safe Regulations.</p> <p><b>Responsibility:</b> Planning &amp; Building, Fire Department, OakDOT <b>Timeframe:</b> Short</p>
<p><b>SAF-2.4 Slope-Density Regulations.</b> Reduce permitted development densities and intensities by slope tiers—such as between 15 and 30 percent slope, and greater than 30 percent slope—in hills/hillside areas. <i>This consideration would be reflected as part of the LUTE update.</i></p>	
<p><b>SAF-2.5 Financial Assistance.</b> In high hazard areas, identify or develop programs to provide financial incentives or assistance to low-income households without vehicles and mobility-impaired residents for defensible space maintenance, home hardening, and situational-specific training for evacuation procedures to reduce risk to people and property.</p>	<p><b>SAF-A.14.</b> Continue to provide fire safety and public education efforts related to requirements for development, property maintenance, and emergency preparedness in the VHFHSZ and target the most vulnerable populations in these areas.</p> <p><b>Responsibility:</b> Fire Department <b>Timeframe:</b> Ongoing</p>
<p><b>SAF-2.6 Agency Coordination.</b> Continue to participate not only in general mutual-aid agreements but also in agreements with adjoining jurisdictions and other public agencies for proactive prevention of and cooperative response to wildfires, including multi-jurisdictional programs and task forces.</p>	

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<p><b>SAF-2.7 Protect Against Smoke and Wildfire.</b> Improve access to better indoor air quality to protect against smoke and wildfire through methods such as requiring installation of MERV filters in new developments and identifying additional clean air centers and resilience spaces within residential areas. Additionally, the City will explore funding mechanisms such as available grants, to assist residents of EJ communities in purchasing indoor air filters.</p>	
<p><b>SAF-2.8 Water Infrastructure.</b> In partnership with EBMUD, plan for the ongoing maintenance and long-term integrity of planned and existing water supply infrastructure, including peak load water supply.</p>	
<p><b>GOAL SAF-3: PROTECT PEOPLE AND PROPERTY FROM FLOODING.</b></p>	
<p><b>SAF-3.1 Minimize Storm-Induced Flooding.</b> Continue or strengthen city programs that seek to minimize the storm-induced flooding hazard.</p>	<p><b>SAF-A.15.</b> As part of creek “naturalization” or restoration efforts, undertake ecologically-sensitive solutions that align with integrated open space/flooding solutions where feasible. Continue leveraging Measure AA funding for these wetland restoration efforts. As staff resources are available, explore these solutions in partnership with community organizations, such as partners involved in the East Oakland Neighborhood Initiative, Save the Bay, Mycelium Youth, Shoreline Leadership Academy, and other groups already implementing climate-resilient solutions.</p> <p><b>Responsibility:</b> Public Works <b>Timeframe:</b> Ongoing</p> <p><b>SAF-A.16.</b> Continue to provide sandbags and plastic sheeting to residents and businesses in anticipation of rainstorms, and to deliver those materials to people with disabilities and older adults upon request.</p> <p><b>Responsibility:</b> Public Works <b>Timeframe:</b> Ongoing</p> <p><b>SAF-A.17.</b> Ensure that new construction and major improvements to existing structures within flood zones are in compliance with federal requirements and, thus, remain a participant in the National Flood Insurance Program (NFIP).</p> <p><b>Responsibility:</b> Public Works, Planning &amp; Building <b>Timeframe:</b> Short</p> <p><b>SAF-A.18.</b> Continue to coordinate with FEMA, the Alameda County Flood Control and Water Conservation District, and the State Division of Safety of Dams on flood-control-related projects.</p> <p><b>Responsibility:</b> Public Works, Planning &amp; Building <b>Timeframe:</b> Ongoing</p>
<p><b>SAF-3.2 Storm-Induced Flooding Structural Risk.</b> Enforce and update local ordinances, and comply with regional orders, that would reduce the risk of storm-induced flooding.</p>	
<p><b>SAF-3.3 Reestablish Full Compliance and Good Standing Under the National Flood Insurance Program (NFIP).</b> The City will coordinate with FEMA Region IX and DWR to address all identified issues from the open September 2017 Community Assistance Visit (CAV) to reestablish the City’s full compliance and good standing under the NFIP.</p>	
<p><b>SAF-3.4 Flood Control Coordination.</b> Continue to coordinate with FEMA, the Alameda County Flood Control and Water Conservation District (ACFCWCD), and the State Division of Safety of Dams on flood-control-related projects.</p>	

POLICY	ACTION
<p><b>SAF-3.5 Green Stormwater Infrastructure.</b> Fund and implement a green infrastructure program for the installation and maintenance of projects and existing civic resources such as the parks system and public spaces, to improve stormwater management, support biodiversity, reduce air pollution exposure, improve water quality, and increase access to natural spaces, including trees. Prioritize green stormwater infrastructure investment in frontline communities, particularly in residential neighborhoods dominated by concrete and asphalt with limited green space and elevated air pollution, in Priority Conservation Areas, and in areas where green infrastructure, including trees and other types of vegetated buffers, can effectively address stormwater management issues and reduce air pollution exposure among sensitive populations. <i>This policy is cross-listed as Action EJ-A.13 in the Environmental Justice Element.</i></p>	
<p><b>GOAL SAF-4: PROACTIVELY PLAN FOR IMPACTS OF SEA LEVEL RISE ON PEOPLE, PROPERTY, AND ESSENTIAL INFRASTRUCTURE.</b></p>	
<p><b>SAF-4.1 Sea Level Rise and Community Engagement.</b> As recommended in the Sea Level Rise Roadmap and ECAP, develop a plan for organizations working to address sea level rise adaptation and building resilience of vulnerable communities. Work with communities to use community-generated data critical to future SLR mapping and community education efforts.</p>	<p><b>SAF-A.19.</b> Continue to repair, maintain, and make structural improvements to storm drains to enable them to perform to their design capacity in handling water flows.</p> <p><b>Responsibility:</b> Public Works, Planning &amp; Building  <b>Timeframe:</b> Ongoing</p>
<p><b>SAF-4.2 Current Development and Sea Level Rise.</b> Use in planning and development reviews, as applicable, the best available science about projected sea level rise and other climate change-related environmental changes when addressing flooding, potential for groundwater contamination, and other hazards associated with sea level rise.</p>	<p><b>SAF-A.20.</b> Work with property owners to develop cohesive areawide flooding prevention strategies in the two areas most susceptible to 100-year floods – the shoreline near the mouth of the Oakland Estuary, and the Coliseum and areas north extending through to the Flea Market.</p> <p><b>Responsibility:</b> Public Works  <b>Timeframe:</b> Short</p>
<p><b>SAF-4.3 New Development and Sea Level Rise.</b> Develop sea-level rise standards/horizon that will guide adaption and resiliency planning as part of the updated Sea Level Rise Roadmap, including consideration of recommendations and regulations for a suite of shoreline protection measures that prioritize ecologically-friendly adaptation options, protective setbacks, and other adaptation strategies, to be incorporated into future development projects.</p>	<p><b>SAF-A.21.</b> Study compounding impact of sea level rise on groundwater threats in areas with hazardous facilities. Coordinate with adjacent jurisdictions as appropriate to create a Shallow Groundwater Rise Vulnerability Assessment to establish a detailed understanding of the effects of rising shallow groundwater on people, the built environment, and water supply. This includes buoyancy, seepage, infiltration, liquefaction, corrosion, and contaminant mobilization hazards. The assessment should have an interactive map component that will be updated based on site-specific geotechnical and topographic data submitted by new developments. Continue to comply with performance standards pursuant to the Alameda countywide National Pollutant Discharge Elimination System municipal stormwater permit.</p> <p><b>Responsibility:</b> Sustainability and Resilience Division, City Administrator’s Office, Planning &amp; Building, Public Works  <b>Timeframe:</b> Short</p>
<p><b>SAF-4.4 Contaminated Sites.</b> Contaminated Sites. New and/or substantial construction on contaminated sites shall account for impacts of rising shallow groundwater on contaminant mobilization in project design and all steps of the site remediation process. This shall be documented in a vulnerability assessment and adaptation plan, which will also include a groundwater data monitoring plan. Groundwater data from the site should be used for the most accurate water level on-site; however, if groundwater wells are not present at the project site, databases such as GeoTracker can be used to access water table elevations nearby, using U.S. Geological Survey, California Department of Water Resources, or other sources.</p>	
<p><b>SAF-4.5 Sea Level Rise Vulnerability Assessment.</b> Require applicants proposing to develop in a future inundation area (as depicted in a SLR scenario to be determined in subsequent administrative regulations or documents) to conduct a Sea Level Rise vulnerability assessment for the project, prepare a Sea Level Rise Adaptation Plan for implementation as part of the project designs, and submit the assessment, adaptation plan, and conceptual design to the City for review and approval.</p>	<p><b>SAF-A.22.</b> Continue to enforce the grading, erosion, and sedimentation ordinance and provisions under the creek protection, storm water management and discharge control ordinance to keep watercourses free of obstructions and protect drainage facilities.</p> <p><b>Responsibility:</b> Planning &amp; Building  <b>Timeframe:</b> Ongoing</p>

POLICY	ACTION
<p><b>SAF-4.6 Evaluating Bay/Watershed Flooding Potential.</b> In partnership with other agencies, including the Port of Oakland, the Bay Area Bay Conservation and Development Commission, and the ACFCWCD, re-evaluate both Bay flooding and watershed flooding potential at key milestones in the Safety Element’s implementation horizon, to manage for changing sea level rise projections.</p>	<p><b>SAF-A.23.</b> By 2025, conduct a regional and citywide community engagement effort to determine planning thresholds and appropriate sea level rise mitigation strategies.</p> <p><b>Responsibility:</b> Sustainability and Resilience Division, City Administrator’s Office, Planning &amp; Building  <b>Timeframe:</b> Short</p>
<p><b>SAF-4.7 Sea Level Rise Regional Strategy.</b> As part of the Sea Level Rise Roadmap update, continue to work with regional entities to address rising water levels in the San Francisco Bay and coordinate with the City’s other climate adaptation efforts.</p>	
<p><b>GOAL SAF-5: MINIMIZE HEALTH AND SAFETY IMPACTS RELATED TO THE USE, STORAGE, MANUFACTURE, AND TRANSPORT OF HAZARDOUS MATERIALS.</b></p>	
<p><b>SAF-5.1 Risks from Hazardous Materials Facilities.</b> Review proposed facilities that would produce or store hazardous materials, gas, natural gas, or other fuels to identify, and require feasible mitigation for, any significant risks. Regulations and enforcement of activities should be disclosed in a set of findings. The review shall consider, at a minimum, the following:</p> <ul style="list-style-type: none"> <li>• Presence of seismic or geologic hazards;</li> <li>• Presence of other hazardous materials;</li> <li>• Proximity to residential development and areas in which substantial concentrations of people exist, particularly Environmental Justice communities already overburdened by pollution, including toxic releases from facilities, cleanup sites, groundwater threats/ threats from sea level rise, and other sources; and</li> <li>• Nature and level of risk and hazard associated with the proposed project.</li> </ul>	<p><b>SAF-A.24.</b> As part of the LUTE, the City of Oakland will include policy recommendations from the West Oakland Truck Management Plan. These include: 1) traffic calming measures to keep truck traffic off residential streets; 2) improved signage regarding existing truck routes; 3) preferred routes to use when destinations are not located on truck routes; and 3) modifications to truck routes and prohibited streets.</p> <p><b>Responsibility:</b> Planning &amp; Building, OakDOT  <b>Timeframe:</b> Short</p>
<p><b>SAF-5.2 Hazardous Materials.</b> Minimize the potential risks to human and environmental health and safety associated with the past and present use, handling, storage and disposal of hazardous materials. Toxic materials removed as part of cleanup efforts should be disposed of in the least harmful manner so that the impact is not shifted from one vulnerable community to another.</p>	<p><b>SAF-A.25.</b> Continue to coordinate with ACDEH, the unified-program agency responsible for issuance of permits for and inspection of certain industrial facilities, monitoring the filing of disclosure forms and risk-management plans, hazardous-materials assessment reports and remediation plans, and closure plans by such facilities.</p> <p><b>Responsibility:</b> Public Works , Planning &amp; Building  <b>Timeframe:</b> Ongoing</p>
<p><b>SAF-5.3 Site Contamination.</b> Through enforcement of standard conditions of approval, ensure buildings and sites are or have been investigated for the presence of hazardous materials and/or waste contamination before development or if there is reason to believe an existing building or site may contain hazardous materials that pose a threat to possible users. Continue to require remediation and construction techniques for adequate protection of construction workers, future occupants, adjacent residents, and the environment are adequately protected from hazards associated with contamination.</p>	<p><b>SAF-A.26.</b> Continue to rely on, and update, the City’s hazardous materials area plan to respond to emergencies related to hazardous materials.</p> <p><b>Responsibility:</b> Emergency Management Services Division, Fire Department  <b>Timeframe:</b> Ongoing</p> <p><b>SAF-A.27.</b> Continue to offer basic emergency-response education and training to local businesses.</p> <p><b>Responsibility:</b> Emergency Management Services Division, Fire Department  <b>Timeframe:</b> Ongoing</p>

POLICY	ACTION
<p><b>SAF-5.4 Hazardous Materials Accidents.</b> Seek to prevent industrial and transportation accidents involving hazardous materials, and enhance the City’s capacity to respond to such incidents. Continue to enforce regulations limiting truck travel through certain areas of the city to designated routes and consider updating OMC 10.52.010 to establishing time-based restrictions on truck travel on certain routes to reduce the risk and potential impact of accidents during peak traffic hours.</p>	<p><b>SAF-A.28.</b> Continue to participate in the Alameda County Waste Management Authority and, as a participant, continue to implement policies under the county’s hazardous-waste management plan to properly dispose of hazardous wastes.</p> <p><b>Responsibility:</b> Environmental Services Division, Public Works  <b>Timeframe:</b> Ongoing</p>
<p><b>SAF-5.5 Study Options to Provide Financing for the Remediation of Environmentally Contaminated Sites, with Priority for Affordable Projects.</b> As grant and loan funding sources are secured, support property owners through technical assistance and financing of characterization and/or remediation of environmentally contaminated sites. Prioritize bioremediation techniques to remove contamination from water sources.</p>	<p><b>SAF-A.29.</b> Continue to apply for and manage EPA or other federally grants for the cleanup of Brownfield sites.</p> <p><b>Responsibility:</b> Public Works, Economic &amp; Workforce Development Dept.  <b>Timeframe:</b> Ongoing</p> <p><b>SAF-A.30.</b> Outreach and engage with the Alameda County Department of Environmental Health, California Department of Toxic Substances Control, and the Regional Water Resources Control Board to ensure the public has access to a database with detailed site information on all brownfields and contaminated sites in the city and the existing restrictions placed on those sites.</p> <p><b>Responsibility:</b> Environmental Services Division, Public Works  <b>Timeframe:</b> Ongoing</p> <p><b>SAF-A.31.</b> As part of an ongoing education and outreach effort by the City, establish a program that continually educates the general public of current enforcement policies and practices, and the roles of responsible agencies or departments for enforcement and assessing fines and/or penalties.</p> <p><b>Responsibility:</b> Environmental Services Division  <b>Timeframe:</b> Ongoing</p>

POLICY	ACTION
<b>GOAL SAF-6: PROTECT OAKLANDERS FROM AIRPORT LAND USE HAZARDS.</b>	
<p><b>SAF-6.1 ALUCP Updates.</b> Periodically review and coordinate with the Oakland Airport Land Use Commission on updates and modifications to ALUCPs conducted for airport facilities within Alameda County.</p>	<p><b>SAF-A.32.</b> Incorporate land use compatibility considerations in LUTE as part of Phase 2.</p> <p><b>Responsibility:</b> Planning &amp; Building <b>Timeframe:</b> Short</p>
<p><b>SAF-6.2 Land Use Compatibility.</b> Require land uses surrounding the Oakland International Airport to be compatible with the operation of the airport and restrict development of potentially hazardous obstructions or other hazards to flight. Discourage uses that may impact airport operations or do not meet Federal or State aviation standards.</p>	
<b>GOAL SAF-7: FOSTER FEELINGS OF SAFETY IN ALL OAKLAND NEIGHBORHOODS.</b>	
<p><b>SAF-7.1 Reimagining Public Safety.</b> Support recommendations made in Oakland’s Reimagining Public Safety program, including through land use policies that promote more housing, living wage jobs, revitalization of commercial corridors, improved access to healthy food facilities, restorative justice centers, civic engagement, and arts and culture. As funding becomes available, support community-based violence prevention programs.</p>	<p><b>SAF-A.33.</b> Work with community groups to ensure CPTED guidelines account for unique neighborhood and cultural considerations. Include representation from youth and formerly incarcerated individuals.</p> <p><b>Responsibility:</b> Planning &amp; Building <b>Timeframe:</b> Medium</p>
<p><b>SAF-7.2 Crime Prevention Through Environmental Design.</b> Continue to apply Crime Prevention through Environmental Design principles in the design of new development and encourage the provision of adequate public lighting; windows overlooking streets or parking lots; and paths to increase pedestrian activity within private development projects and public facilities in order to enhance public safety and reduce calls for service.</p>	<p><b>SAF-A.34.</b> Through grant funding from the California Board of State and Community Corrections (BSCC) Department of Violence Intervention and Prevention Grant Program (CalVIP), staff from Oakland’s Department of Violence Prevention (DVP), Neighborhood Services Division (NSD), Public Works (OPW), and Department of Transportation, (OakDOT) will engage community members in identifying environmental contributors to violence specific to their communities, identify possible CPTED strategies proposed by the community engagement team members and residents familiar with target neighborhoods, identify sources of additional funding for implementation if needed, and implement at least one CPTED strategy.</p> <p><b>Responsibility:</b> Violence Prevention, Neighborhood Services, OPW, OakDOT <b>Timeframe:</b> Ongoing</p>
<p><b>SAF-7.3 Prioritize Mental Health in Emergency Planning.</b> Consider mental health interventions and programs in any updates to the city’s emergency services planning process. Partner with the County and other relevant agencies and community groups to ensure people have access to mental health services and resources in the aftermath of disasters, prioritizing services for frontline communities.</p>	

POLICY	ACTION
<b>GOAL SAF-8: MAINTAIN AN EMERGENCY PREPAREDNESS AND RESPONSE NETWORK THAT KEEPS ALL OAKLANDERS INFORMED, CONNECTED, AND SAFE BEFORE, DURING, AND AFTER AN EMERGENCY.</b>	
<p><b>SAF-8.1 Emergency Response.</b> Maintain and enhance the City’s capacity for emergency response, fire prevention, and fire-fighting.</p>	<p><b>SAF-A.35.</b> Maintain adequate capacity along evacuation routes as shown in <b>SAF-13a</b>, e.g., by limiting street parking where capacity may be needed.</p>
<p><b>SAF-8.2 Emergency Services Review.</b> Continue to engage the Police and Fire departments in the development review process to ensure that projects are designed and operated in a manner that minimizes the potential for public safety and fire hazards and maximizes the potential for responsive police and fire services.</p>	<p><b>Responsibility:</b> OakDOT <b>Timeframe:</b> Ongoing</p> <p><b>SAF-A.36.</b> Following the State Attorney General’s guidance and using available quantitative modeling tools, conduct a study of evacuation times from which a set of recommendations for minimum standards for evacuation of residential areas in VHFHSZs shall be considered for adoption.</p>
<p><b>SAF-8.3 Hazard and Management Plans.</b> Maintain and update as necessary the Oakland Emergency Operations Plan, Annex of Emergency Support Functions, and Integrated Preparedness Plans, which describes how the City will prepare for, prevent, respond to, recover from and mitigate the effects of all types of hazard and threats. Incorporate EOP policy recommendations for terrorism and public health crises as part of these documents’ future planning cycles.</p>	<p><b>Responsibility:</b> OakDOT, Emergency Management Services Division, Fire Department <b>Timeframe:</b> Short term</p> <p><b>SAF-A.37.</b> Maintain a higher level of tree and vegetation maintenance along evacuation routes (including public and private roads) and remove flammable trees and others that could fall and block access adjacent to these routes.</p>
<p><b>SAF-8.4 Data-Driven Equity Approach.</b> To support implementation of and future updates to the City’s Local Hazard Mitigation Plan, and other safety-related plans utilize the best available local data to identify racial disparities in the City of Oakland that can be used by the City to rank risk and prioritize mitigation strategies that incorporate a racial equity lens.</p>	<p><b>Responsibility:</b> Fire Department <b>Timeframe:</b> Ongoing</p> <p><b>SAF-A.38.</b> As part of the LUTE update, project future emergency service needs for planned land uses and evaluate capital improvement and staffing plans accordingly.</p>
<p><b>SAF-8.5 Cohesive Evacuation Routes Network.</b> Ensure the evacuation routes network is interconnected with adequate capacity and reflects ability to evacuate for multiple threats.</p> <ul style="list-style-type: none"> <li>• Maintain adequate capacity along evacuation routes through methods such as limiting street parking, where capacity may be needed.</li> <li>• Maintain a higher level of tree and vegetation maintenance along evacuation routes and remove flammable trees adjacent to these routes.</li> <li>• Collaborate with other City Officials upon the next update to the LHMP to ensure AB 747 requirements are met.</li> </ul>	<p><b>Responsibility:</b> Public Works, Planning &amp; Building <b>Timeframe:</b> Short</p> <p><b>SAF-A.39.</b> Periodically assess the need for new or relocated fire stations, facilities, programs, and technologies.</p> <p><b>Responsibility:</b> Public Works <b>Timeframe:</b> Ongoing</p> <p><b>SAF-A.40.</b> Strive to meet a goal of responding to fires and other emergencies within seven minutes of notification 90 percent of the time.</p>
<p><b>SAF-8.6 Vegetation Clearance.</b> Prioritize and maintain vegetation clearance along evacuation routes and public roads, and encourage property owners to maintain private roadways free from excessive vegetation.</p>	<p><b>Responsibility:</b> Fire Department <b>Timeframe:</b> Ongoing</p> <p><b>SAF-A.41.</b> Continue to participate in multi-jurisdictional programs and task forces, such as the Hills Emergency Forum and Diablo FireSafe Council, that work to reduce the threat of wildfires.</p>
<p><b>SAF-8.7 Emergency Power.</b> Participate in East Bay Community Energy’s Critical Municipal Facility program with the goal of increasing resilience to power losses, including Public Safety Power Shutoffs (PSPS), and climate-driven extreme weather events for low income, medically dependent, and elderly populations through installation of renewable energy and onsite energy storage with islanding capabilities (such as microgrids).</p>	<p><b>Responsibility:</b> Fire Department, Fire Prevention Bureau <b>Timeframe:</b> Ongoing</p> <p><b>SAF-A.42.</b> Implement at least three resilience hubs, including in West Oakland, East Oakland, and at the Lincoln Square Recreation Center.</p> <p><b>Responsibility:</b> Sustainability and Resilience Division of the City Administrator’s Office, Public Works <b>Timeframe:</b> Short</p>

POLICY	ACTION
<p><b>SAF-8.8 Local Hazard Mitigation Plan.</b> To comply with federal and state law, follow and annually update the Oakland Local Hazard Mitigation Plan. Use the LHMP to guide mitigating actions to protect the whole community and environment from natural and humanmade hazards.</p>	<p><b>SAF-A.43.</b> Identify ways the City can help support decentralized community facilities to serve residents unable to travel to centralized resilience hubs.</p> <p><b>Responsibility:</b> Sustainability and Resilience Division, City Administrator’s Office, Public Works  <b>Timeframe:</b> Ongoing</p>
<p><b>SAF-8.9 Risk Reduction Models.</b> Integrate new risk reduction models (such as sea level rise modeling, wildfire mapping tools, etc.), tools, and methods into existing plans such as the General Plan, neighborhood and area plans, green infrastructure planning processes, etc., as may be appropriate.</p>	<p><b>SAF-A.44.</b> In partnership with OakDOT, the Human Services Department, AC Transit, healthcare, and other community organizations, explore organization of a network to transport those without vehicles to these centralized resilience hubs during times of emergency. As part of the LUTE update in Phase 2, explore use of electrified buses as “mobile resilience centers”.</p> <p><b>Responsibility:</b> OakDOT, Human Services Department, Emergency Management Services Division, Planning &amp; Building  <b>Timeframe:</b> Short</p>
<p><b>SAF-8.10 Community Training and Awareness.</b> Continue to offer community training on emergency prevention, preparedness and response as part of the CORE program. Partner with community organizations to target harder-to-reach populations, such as the unhoused, or linguistically isolated populations. Training and educational materials should build capacity among residents to respond to an emergency.</p>	<p><b>SAF-A.45.</b> Establish neighborhood-level communication networks to inform residents of the location and directions to the nearest cooling center and coordinate transportation to these centers for limited-mobility residents during extreme heat events.</p> <p><b>Responsibility:</b> Emergency Management Services Division  <b>Timeframe:</b> Ongoing</p>
<p><b>SAF-8.11 Public Facilities for Resilience &amp; Relief.</b> Prioritize capital improvements and maintenance of public facilities such as fire stations, libraries, senior centers, cultural centers, parks, and recreational centers to ensure that they can function as essential service facilities, respite centers, and local assistance centers providing emergency social and medical services in times of distress (cooling and clean air stations, free air filtration mask distribution, food and vaccine distribution, clean water, testing centers, evacuation/disaster shelters, etc.), and as resilience hubs that empower communities to build resilience. Create and distribute education materials regarding access and utilization of resilience hubs. Clean energy microgrids should be prioritized at all community-serving facilities that are deemed critical during emergency events. In alignment with the ECAP, a minimum of three resilience hubs will be constructed in frontline communities by 2030. The City will continue pursuing resources to increase the number of resilience hubs beyond the minimum required, and to ensure that all frontline community members have access to a resilience hub.</p>	<p><b>SAF-A.46.</b> Evaluate capital improvement projects in the Infrastructure and Facilities Element and LUTE in Phase 2 using climate impacts, risk, and uncertainty. Evaluate CIP projects as part of short- and long-term CIP reports.</p> <p><b>Responsibility:</b> Planning &amp; Building, Economic and Workforce Development, Public Works, OakDOT, Sustainability and Resilience Division, City Administrator’s Office, All Asset Owning Department  <b>Timeframe:</b> Short</p>
<p><b>SAF-8.12 Critical Facilities Locations.</b> Locate critical facilities, such as hospitals and health care facilities, emergency shelters, fire stations, police stations, emergency command centers, and other emergency service facilities and utilities so as to minimize exposure to flooding, seismic, geologic, wildfire, and other hazards, except those facilities that provide frontline access, such as fire stations in areas of fire hazard. If critical facilities must be located in hazard zones, require building construction and materials that minimize hazard, safe access for emergency response vehicles, visible street signs, and adequate infrastructure for emergency scenarios, such as flooding, backup power and water supplies.</p>	<p><b>SAF-A.47.</b> Develop prioritized list of community-serving facilities and complete heat pump installation.</p> <p><b>Responsibility:</b> Public Works, Sustainability and Resilience Division, City Administrator’s Office  <b>Timeframe:</b> Medium</p> <p><b>SAF-A.48.</b> Continue to collaborate with adjoining jurisdictions on the network of outdoor warning sirens, and to test the sirens on a monthly basis.</p> <p><b>Responsibility:</b> Emergency Management Services Division  <b>Timeframe:</b> Ongoing</p>

POLICY	ACTION
<p><b>SAF-8.13 Critical Facilities Funding.</b> Continue to explore funding sources for capital improvements necessary for emergency response, with priority given for fire station improvements.</p>	<p><b>SAF-A.49.</b> Consider roadway improvements for better emergency access as part of the LUTE and identify any possible tradeoffs for everyday street safety.</p> <p><b>Responsibility:</b> Planning &amp; Building, OakDOT, Fire Department <b>Timeframe:</b> Short</p>
<p><b>SAF-8.14 Facilities and Climate Impacts.</b> Consider climate impacts, risk, and uncertainty in designing and evaluating capital improvement program design and adjust infrastructure design standards and project locations to address asset- and site-specific vulnerabilities.</p>	<p><b>SAF-A.50.</b> Consider adoption of a disaster reconstruction overlay zone. As part of this action, re-evaluate all development scenarios and requirements following a hazard event such as a wildfire, landslide, flood, earthquake; explore funding sources and create a low-interest construction loan program for income-qualified owners who are recovering from a disaster. <i>This action is cross-referenced with 2023-2031 Housing Action Plan, Action 5.2.7.</i></p> <p><b>Responsibility:</b> Oakland Planning and Building <b>Timeframe:</b> Medium</p>
<p><b>SAF-8.15 Heat Pumps.</b> Equip community-serving facilities with heat pumps instead of energy-intensive air conditioning units. Prioritize community-serving facilities in neighborhoods with a high urban heat island index and higher social vulnerability.</p>	<p><b>SAF-A.51.</b> Consider an ordinance requiring installation and periodic inspection and maintenance of gas shut-off valves in existing buildings at the time of sale, transfer of title, and when upgrades are planned for gas piping to minimize the risk of post-earthquake fires due to gas pipeline ruptures.</p> <p><b>Responsibility:</b> Planning and Building Department <b>Timeframe:</b> Medium</p>
<p><b>SAF-8.16 Emergency Notification.</b> Use early warning notification systems (Zonehaven, text messages, etc.) to notify residents by wireless emergency alert of the need to evacuate in the event of an emergency and the location of evacuation routes, points, and critical facilities such as schools and day care centers, particularly residents of vulnerable areas and neighborhoods with constrained emergency access. Continue to collaborate with adjoining jurisdictions on the network of outdoor warning sirens, and to test the sirens on a monthly basis.</p>	
<p><b>SAF-8.17 Traffic Signaling.</b> Prioritize the connection of traffic signals along evacuation routes to the City's Traffic Management Center to allow for real-time modifications to signal timing that can speed evacuation in the event of emergency.</p>	
<p><b>SAF-8.18 Priority Route Coordination.</b> Partner with Caltrans and neighboring jurisdictions on measures to protect critical evacuation routes and work with local agencies to develop contingency plans that address disconnected routes and explore roadway improvements that can provide better emergency access under emergency evacuation scenarios. Work with emergency response teams and transit providers to identify and support Oakland residents without access to transportation in the event of an emergency. Create evacuation strategies for all residents, with a focus on low-income and unhoused residents.</p>	

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**OAKLAND 2045**  

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**GENERAL PLAN**