

Table 13-4. Recommended Flood Mitigation Actions

Lead Department ^a	Possible Funding Sources	Estimated Project Cost	Time Line	Objectives
P-1 —Continue to maintain the City Tsunami Response Plan Annex and community education effort and participate in the Los Angeles County Operational Area Tsunami Mitigation Task Force. Consider inclusion of outreach to identified vulnerable populations.				
EMD, HD	General Fund, HD	Low. Work performed by existing staff	Ongoing	2, 5, 11
P-2 —Continue to partner with the NOAA and the NWS, who provide tsunami warning information to the state, the county and the city.				
EMD, HD, FD	General Fund, HD	Low. Work performed by existing staff	Ongoing	2, 5
P-3 —Maintain the City Tsunami Response Plan Annex as part of the City's Emergency Operations Organization Master Plan.				
EMD, HD	General Fund, HD	Low. Work performed by existing staff	Ongoing	5, 6
P-4 —Update evacuation plans for areas potentially affected by a tsunami according to California State Office of Emergency Services tsunami inundation maps and the City's Tsunami Response Plan Annex. Forward these evacuation plans to appropriate agencies for coordination (police, sheriff, Department of Transportation, DCP, Los Angeles County, etc.).				
EMD, FD, PD	General Funds; Possible grants	Low. Work performed by existing staff	Ongoing	5, 6, 11
P-5 —Continue to maintain and annually update the Dam and Reservoir Emergency Notification List.				
DWP	DWP	Low. Work performed by existing staff	Ongoing	5, 8, 11
P-6 —Continue to evaluate reservoirs in terms of earthquake safety and implement necessary mitigation or improvement measures, as required by the California Department of Water Resources Division of Safety of Dams.				
DWP, LACDPW	DWP, FCBAF	High	Ongoing	1, 2, 5
P-7 —Continue to collect and analyze data regarding water volumes and pumping capabilities in water storage facilities provided by the Los Angeles Water Systems Data Acquisition Center to ensure those facilities are functioning properly to minimize potential hazards.				
DWP	DWP	Low. Work performed by existing staff	Ongoing	1, 2, 5
P-8 —Continue to dispatch reservoir inspection and damage teams following natural disasters to inspect and report the condition of facilities.				
DWP, LACDPW	DWP, FCBAF	Low. Work performed by existing staff	Ongoing	1, 2, 5, 6
P-9 —Continue to routinely monitor the existing structural condition of City-owned water storage facilities.				
DWP	DWP	Low. Work performed by existing staff	Ongoing	1, 2, 5, 6
P-10 —Maintain a flood threat recognition system for properties downstream of City-owned water tanks.				
DWP, EMD	DWP	Low. Work performed by existing staff	Ongoing	2, 5
P-11 —Prepare and update emergency response plans for water tanks and other non-dam systems.				
DWP	DWP	Medium	Ongoing	1, 2, 3, 5, 6, 11
P-12 —Continue to provide and participate in community education and outreach programs and events in the City (such as Earth Day, Public Works Week and preparedness fairs), prioritizing identified vulnerable populations.				
EMD, LASAN, BOE, LASAN, DCP, HD, FD, PD, DBS, DWP	General Fund	Low. Work performed by existing staff	Ongoing	5, 8, 9, 11
P-13 —Maintain the City's Emergency Management Department and ReadyLA websites and other City social media sites to provide emergency preparedness information to the general public and media.				
EMD	General Fund	Low. Work performed by existing staff	Ongoing	5, 8, 10, 11
P-14 —Distribute information regarding flood prevention and flood insurance at emergency operations and emergency preparedness events.				
BOE, EMD	General Fund, Stormwater Pollution Abatement Fund	Low. Work performed by existing staff	Ongoing	6, 8, 9, 11
P-15 —Maintain the City's Emergency Operations Master Plan and Procedures including, but not limited to, periodic plan updates and training and exercises.				
EMD	General Fund	Low. Work performed by existing staff	Ongoing	2, 5, 6, 11
P-16 —Make sand and sandbags available to flood risk property owners during the wet season, provide notifications of the availability of these materials, and track the distribution of the materials.				
FD, BOE, STREETS LA, EMD,	General Fund; Stormwater Pollution Abatement Fund	Low. Work performed by existing staff	Ongoing	1, 2, 5, 8, 9, 11

Lead Department ^a	Possible Funding Sources	Estimated Project Cost	Time Line	Objectives
P-17 —Maintain and improve the drainage complaint database to help identify flood risks.				
<u>BOE</u> , LASAN	Stormwater Pollution Abatement Fund	Low. Work performed by existing staff	Ongoing	2, 7
P-18 —Maintain and improve a technically based prioritization methodology for use in developing the stormwater capital improvement program.				
<u>BOE</u> , LASAN	Stormwater Pollution Abatement Fund	Low. Work performed by existing staff	Ongoing	1, 2, 3, 7, 10
P-19 —Maintain regular contact with surrounding cities, the Los Angeles County Department of Public Works, and applicable state and federal agencies regarding floodplain management and the National Flood Insurance Program.				
<u>BOE</u> , CAO, EMD	Stormwater Pollution Abatement Fund; General Fund	Low. Work performed by existing staff	Ongoing	2, 3
P-20 —Network with other agencies and participate in organizations such as the Association of State Floodplain Managers, California Floodplain Management Association and the National Association of Flood and Stormwater Management Agencies to remain current in the field of floodplain management.				
<u>BOE</u> , LASAN	Stormwater Pollution Abatement Fund	Low. Work performed by existing staff	Ongoing	2, 3, 10
P-21 —Provide training and necessary support to foster Certified Floodplain Managers within the Department of Public Works and other Departments with floodplain management responsibilities.				
<u>BOE</u> , LASAN, DCP, DBS	Stormwater Pollution Abatement Fund	Low. Work performed by existing staff	Ongoing	1, 2, 3
P-22 —Conduct an annual National Flood Insurance Program seminar for City agencies responsible for applying and enforcing floodplain management regulations.				
<u>BOE</u> , DBS, DCP, HD	Stormwater Pollution Abatement Fund	Low. Work performed by existing staff	Ongoing	1, 2, 3
P-23 —Based on the annual National Flood Insurance Program seminar, update operational procedures and training materials for staff who apply and enforce floodplain management regulations and provide annual training.				
<u>DBS</u> , DCP, HD, <u>BOE</u>	General Fund	Low. Work performed by existing staff	Ongoing	1, 2, 3
P-24 —Maintain Geographic Information System mapping and modeling capability to support the stormwater facilities condition assessment program.				
<u>BOE</u> , LASAN	Stormwater Pollution Abatement Fund	Low. Work performed by existing staff	Ongoing	1, 2, 6, 7
P-25 —Continue to maintain precise survey benchmarks throughout the City.				
<u>BOE</u>	General Fund	Low. Work performed by existing staff	Ongoing	2, 3
P-26 —Develop and maintain a citywide list of priority maintenance-related flood problem sites for where the City has jurisdiction.				
<u>LASAN</u> , <u>BOE</u>	Stormwater Pollution Abatement Fund	Low. Work performed by existing staff	Ongoing	1, 2, 3, 7
P-27 —Based on the citywide list of priority maintenance-related flood problem sites (see P-26), conduct necessary inspection and maintenance at priority maintenance-related flood problem sites prior to the wet season and after significant storms, where the City has jurisdiction.				
<u>LASAN</u>	Stormwater Pollution Abatement Fund	Low. Work performed by existing staff	Ongoing	1, 6, 7
P-28 —Provide public education about keeping the stormwater system free of debris, the blockage of flow paths and reporting violations.				
<u>BOE</u> , LASAN	Stormwater Pollution Abatement Fund	Low. Work performed by existing staff	Ongoing	1, 7, 8, 9, 11
P-29 —Post “No Dumping” signs at points of entry to the stormwater system where the City has jurisdiction.				
<u>LASAN</u> , LACDPW	Stormwater Pollution Abatement Fund (City); Benefit Assessment for Flood Control (County)	Low. Work performed by existing staff	Ongoing	7, 8
P-30 —Maintain a map for potential landslide and mudflow areas (including post-fire impact areas).				
<u>BOE</u> , LASAN, DBS, DCP, LACDPW	General Fund, Stormwater Pollution Abatement Fund, FCBAF (post-fire mapping only)	Low. Work performed by existing staff	Ongoing	2, 3, 8
P-31 —Update the established policy for substantial improvement/damage assessment to be consistent with FEMA requirements as needed.				
<u>BOE</u> , DBS	General Fund, Stormwater Pollution Abatement Fund	Low. Work performed by existing staff	Ongoing	2, 3, 4

Lead Department ^a	Possible Funding Sources	Estimated Project Cost	Time Line	Objectives
P-32 —Verify, through the plan check process and post development review, that new development complies with the regulations in the City’s Ordinance for the Management of Flood Hazards (Ordinance No. 172,081), including freeboard requirements on new construction and substantial improvements.				
<u>BOE</u> , DBS, DCP, HD	Stormwater Pollution Abatement Fund; General Fund	Low. Work performed by existing staff	Ongoing	1, 3, 4
P-33 —Update the City’s Flood Damage Prevention Ordinance to incorporate standards appropriate for the flood risk in the City and to incorporate natural floodplain functions and green infrastructure elements. Consider the inclusion of additional measures to address flood risk to identified vulnerable populations. Coordinate with DCP on the development of wildlife protection regulations.				
<u>BOE</u> , DBS, DCP, HD	Stormwater Pollution Abatement Fund; General Fund	Low. Work performed by existing staff	Ongoing	1, 3, 4
P-34 —Provide information to the Flood Hazard Mitigation Coordinator on July 1 of each year for preparation of the Annual Floodplain Management Plan Evaluation Report. Describe the progress made for each mitigation action and any floodplain management regulatory actions and compliance actions conducted during the reporting period, including the number of permits approved in designated flood hazard areas, the number of waivers applied for, and the number of waivers approved. Following the completion of the Plan Evaluation Report, the Steering Committee will meet at least one time during the year to finalize the report for posting and presentation to the City Council.				
<u>BOE</u> , CAO, Steering Committee	Stormwater Pollution Abatement Fund; General Fund	Low. Work performed by existing staff	Ongoing	2, 3
P-35 —Maintain a filing system for all Elevation Certificates that includes a process for obtaining accurately completed Elevation Certificates that is based upon a review and approval of all elevation certificates prior to the closure of a permit record.				
<u>BOE</u> , DBS	Stormwater Pollution Abatement Fund; General Fund	Low. Work performed by existing staff	Ongoing	2, 3, 4
P-36 —Continue to refine the use of the Plan Check and Inspection System to track high-risk properties and ensure that drainage is adequately addressed through the plan check process.				
<u>BOE</u> , LASAN, DBS	Stormwater Pollution Abatement Fund; General Fund	Low. Work performed by existing staff	Ongoing	1, 2, 3, 4
P-37 —Incorporate floodplain management information into the Zoning Information and Map Access System (NavigateLA). Ongoing updates will be needed based on updated floodplain management data.				
<u>BOE</u> , DBS, DCP	Stormwater Pollution Abatement Fund; General Fund	Low. Work performed by existing staff	Ongoing	3, 8
P-38 —Transfer electronic data annually to the Flood Hazard Mitigation Coordinator regarding structures damaged due to flooding caused by catastrophic events.				
<u>DBS</u>	General Fund	Low. Work performed by existing staff	Ongoing	1, 2, 4
P-39 —Update Certified Unified Program Agency data annually regarding hazardous materials storage (including water-reactive chemicals).				
<u>FD</u>	General Fund	Low. Work performed by existing staff	Ongoing	2, 7
P-40 —Continue to notify insurance agencies and realtors of the requirement that all lessors or renters give written notice to all prospective and interested parties—including but not limited to, purchasers, lessee and renters—prior to finalization of a transaction when the subject land and/or structures are located within FEMA-designated flood zones. The notice shall comply with the latest version of CRS manual.				
<u>BOE</u>	Stormwater Pollution Abatement Fund	Low. Work performed by existing staff	Ongoing	3, 8, 9, 11
P-41 —Provide flood zone information to all residents. Provide notifications when flood insurance is required. Provide notifications when FEMA-designated flood zone changes are made.				
<u>BOE</u>	Stormwater Pollution Abatement Fund	Low. Work performed by existing staff	Ongoing	2, 3, 8
P-42 —Develop and distribute flood protection information and materials to property owners and developers in high-risk areas including FEMA mapped floodplains, identified repetitive loss areas, and areas outside of mapped floodplains with known flood risks.				
<u>BOE</u> , DBS, DCP, EMD, Library	Stormwater Pollution Abatement Fund; General Fund	Low. Work performed by existing staff	Ongoing	2, 3, 8, 9, 11

Lead Department ^a	Possible Funding Sources	Estimated Project Cost	Time Line	Objectives
P-43 —Maintain a list of critical facilities in the city as documented in the City's Local Hazard Mitigation Plan. Provide flood protection information to operators of critical facilities in FEMA-designated flood zones. Encourage the implementation of flood protection measures at such facilities.				
<u>BOE</u> , EMD	Stormwater Pollution Abatement Fund; General Fund	Low. Work performed by existing staff	Ongoing	2, 3, 4, 6
P-44 —Maintain a current list of City-owned or city-leased properties located in FEMA-designated flood zones and evaluate floodplain management alternatives.				
<u>BOE</u> , DGS	General Fund; Stormwater Pollution Abatement Fund	Low. Work performed by existing staff	Ongoing	1, 2, 3, 4, 6
P-45 —Pursuant to the directives of the City's Repetitive Loss Area Analysis, continue to investigate repetitive loss properties as they are identified by FEMA. Annually notify repetitive loss property owners about local flood hazards and property protection activities. Provide technical advice regarding flood protection and flood preparedness. Distribute a current repetitive loss property questionnaire to new repetitive loss properties.				
<u>BOE</u> , LASAN, BDS	Stormwater Pollution Abatement Fund	Low. Work performed by existing staff	Ongoing	1, 2, 4, 8
P-46 —Identify flood risk areas in the City. Provide annual investigation and notification to property owners of high-risk areas about local flood hazards and proper protection activities. Provide technical advice regarding flood protection and flood preparedness. Distribute a current flood hazard questionnaire to new owners in high risk areas.				
<u>BOE</u>	Stormwater Pollution Abatement Fund	Low. Work performed by existing staff	Ongoing	2, 3, 8, 9, 11
P-47 —In the Plan Check and Inspection System database, flag repetitive loss properties and high-risk areas for review and approval of building permit applications by the Flood Hazard Mitigation Coordinator. Ongoing updates will be needed based on updated floodplain management data. Include data in ZIMAS and NavigateLA.				
<u>BOE</u> , DBS	Stormwater Pollution Abatement Fund; General Fund	Low. Work performed by existing staff	Ongoing	2, 3, 4, 8
P-48 —Request that FEMA modify the repetitive loss property list based on mitigation projects implemented by owners or other responsible parties.				
<u>BOE</u>	Stormwater Pollution Abatement Fund	Low. Work performed by existing staff	Ongoing	1, 2, 3, 4
P-49 —Identify possible sources of funding (increased cost of compliance funds, mitigation grant funds, and others), and provide this information to repetitive loss property owners.				
<u>BOE</u> , LASAN	Stormwater Pollution Abatement Fund	Low. Work performed by existing staff	Ongoing	2, 3, 4, 8
P-50 —Establish standards and/or incentives for the use of structural and nonstructural techniques that mitigate flood hazards and manage stormwater pollution.				
<u>BOE</u> , LASAN	Stormwater Pollution Abatement Fund	Low. Work performed by existing staff	Ongoing	1, 2, 3, 7
P-51 —Plan and design stormwater projects so that water quality is protected, and flood risks are reduced on site and off site.				
<u>BOE</u> , LASAN, DBS	Stormwater Pollution Abatement Fund	Low. Work performed by existing staff	Ongoing	1, 2, 3, 7
P-52 —Continue to require environmental review in the development process to provide for the protection of, or creation of natural resources that can mitigate the impacts of the development.				
<u>BOE</u> , DBS, DCP	General Fund	Low. Work performed by existing staff	Ongoing	1, 2, 7
P-53 —Continue to implement environmentally sensitive property management at City-owned sites.				
<u>DGS</u> , DOA, DRP, DWP, HD	Various	Low. Work performed by existing staff	Ongoing	1, 2, 7
P-54 —Update a City-wide Watercourse Permit Manual.				
<u>BOE</u>	General Fund, Possible grants	Low. Work performed by existing staff	Ongoing	2, 3, 7
P-55 —Update the City's floodplain management website to promote awareness of programs that pursue flood hazard resilience, including but not limited to the National Flood Insurance Program, FEMA's Hazard Mitigation Assistance programs, HUD's CDBG programs, and EPA's Building Blocks programs.				
<u>BOE</u> , EMD	General Fund, Stormwater Pollution Abatement Fund	Low. Work performed by existing staff	Ongoing	8, 9, 11
P-56 —Develop a program for regular condition assessment of stormwater facilities where the City has jurisdiction to identify the physical and hydraulic condition of the system and to support infrastructure management needs.				
<u>BOE</u> , LASAN	Stormwater Pollution Abatement Fund	High	Long Term	1, 2, 3, 6

Lead Department ^a	Possible Funding Sources	Estimated Project Cost	Time Line	Objectives
P-57 —Conduct a systematic evaluation of FEMA designated flood zones and revise/update designated flood zones to reflect current conditions. Any revised data generated by the City will be provided to FEMA with a request for effective map revision.				
<u>BOE, LASAN</u>	Stormwater Pollution Abatement Fund	High	Long Term	2, 3
P-58 — Evaluate current development regulations, including the grading ordinance and zoning ordinances (floodplain management ordinance, proposed wildlife protection ordinance), to determine whether the standards provide sufficient protection for adjacent (downstream or down-slope) development. Evaluate the effects of remedial grading and revise practices to minimize downstream impacts such as soil erosion and drainage. Coordinate updated regulations for hillsides that address the size and intensity of structures to manage flood hazard in hillsides and maintain native habitat to minimize erosion and increase slope stability.				
<u>DCP, DBS, BOE, LASAN</u>	Stormwater Pollution Abatement Fund; General Fund	Low	Long Term	1, 2, 3
P-59 —Update the Map of Hillside Areas (BOE Basic Grid Map A- 13372) to more accurately reflect areas subject to hillside regulations based on latest data and regulations (CF 09-1390 and related documents).				
<u>DCP, DBS, BOE, LASAN</u>	Stormwater Pollution Abatement Fund; General Fund	Low	Long Term	2, 3
P-60 —Study and recommend solutions to conflicts between height limitations and flood mitigation elevation requirements for structures.				
<u>DCP, BOE</u>	Stormwater Pollution Abatement Fund; General Fund	Low	Long Term	1, 2, 3, 4
P-61 —Research and continue to improve municipal code regulations regarding soil stability and erosion abatement.				
<u>DBS, DCP, BOE</u>	Stormwater Pollution Abatement Fund; General Fund	Low	Long Term	2, 3
P-62 —Require that all land division proposals in FEMA-designated flood zones include base flood elevation data including recordation of this information on final plats.				
<u>BOE, DBS, DCP</u>	Stormwater Pollution Abatement Fund; General Fund	High	Long Term	1, 2, 4, 9
P-63 —Develop a model educational program for hillside properties in general and Mandeville Canyon in particular. The target audience should be, at minimum, residents and real estate agents.				
<u>BOE, DBS</u>	Stormwater Pollution Abatement Fund, Grants	High	Long Term	2, 8, 9
P-64 —Develop an annual inspection program of watercourse obstructions and revetments in Mandeville Canyon.				
<u>BOE, LASAN, Streets Los Angeles, CAO, City Attorney; Council Office District 11</u>	General Fund, Grants	High	Long Term	1, 8, 9
P-65 —EMD to continue to coordinate its ongoing access to Federal Empower data that identifies residents of the City who may have disabilities or other medical conditions, or access or functional needs that increase their vulnerability to disasters. This information can be used by field level incident commanders or the City’s Emergency Operations Center in order to ensure timely and efficient evacuation of vulnerable populations in an event of fire, flood, or tsunami.				
<u>EMD, FD, PD, BOE, DOA, DOD</u>	General Funds; Possible grants	High	Long Term	2, 5, 11
P-66 —Continue to develop and maintain evacuation plans for areas potentially affected by a catastrophic dam failure, as identified in the Dam Inundation Map of the General Plan and forward these evacuation plans to appropriate agencies for coordination (police, sheriff, Los Angeles County, etc.).				
<u>EMD, FD, PD, DWP</u>	General Funds; Possible grants	High	Long Term	2, 5, 11
P-67 —Maintain self-registry for vulnerable populations with access and functional needs and strive to identify sources of public safety hazards caused by all flood risk zones, including but not limited to the city regulated floodplain, identified repetitive loss areas, dam failure inundation areas, tsunami inundation areas, and areas potentially impacted by sea level rise.				
<u>EMD, PD, DWP, DOA, DOD</u>	General Funds; Possible grants	High	Long Term	2, 5, 11

Lead Department?	Possible Funding Sources	Estimated Project Cost	Time Line	Objectives
<p>P-68—Conduct regular coordination meetings with the Los Angeles County Department of Public Works to communicate the City’s list of priority stormwater projects, discuss watershed management programs, and develop countywide standards.</p>				
BOE, LASAN, LACDPW	Stormwater Pollution Abatement Fund; Benefit Assessment for Flood Control (County)	Low	Long Term	1, 2, 3, 7
<p>P-69—Where appropriate, support retrofitting, purchase, or relocation of structures in hazard-prone (high risk) areas to prevent future structure damage. Give priority to properties with exposure to repetitive losses and areas with greatest economic need.</p>				
BOE, LASAN, DBS, DCP, DGS	General Fund, Stormwater Pollution Abatement Fund; Grants	Low -Work performed by existing staff	Long Term	1, 2, 4, 8
<p>P-70—Utilize risk-based information from the City of Los Angeles 2020 Floodplain Management Plan and the City of Los Angeles 2018 Local Hazard Mitigation Plan to update the Safety Element of the City’s General Plan pursuant to California Assembly Bill 2140 California Senate Bill 379 and California Senate Bill 1000.</p>				
DCP, DBS	General Fund	Medium	Short	1, 2, 3, 6
<p>P-71—Institute a program to capture perishable data (e.g., high water marks, damages, functional downtime) after flood events in the City, especially where flooding occurs in places that have not been identified a hazard areas on existing FEMA or City maps.</p>				
BOE, LASAN	General Fund, FEMA Pollution Abatement Fund	Medium	Long term	1,2,8
<p>P-72—Continue to maintain/ enhance the city’s classification under the Community rating System (CRS) as a means to mitigate the impacts from flood insurance reform.</p>				
BOE, DBS, DCP, CAO, LASAN, EMD	General Fund	Low	Ongoing	1,2,3,4,5,6,7,8,9,10
<p>P-73—Where feasible, cost effective and supported both publicly and politically, restore the natural and beneficial floodplain functions of appropriate floodplains (floodplains that have been identified through a master plan or study certified by a qualified agency) in the City.</p>				
BOE, LASAN, DBS, DCP, DGS	General Fund, Stormwater Pollution Abatement Fund	Low -Work performed by existing staff	Long Term	1, 2, 4, 8
<p>P-74—Using the best available data and science, consider probable impacts on all forms of flooding from global climate change when making program enhancements or updates to the City’s comprehensive floodplain management program. This would include but is not limited to codes, ordinances, plans, studies, public information programs and city directives.</p>				
BOE, LASAN, DCP, DGS, DBS	General Fund	Medium	Long term	1,2,3,10, 11
<p>P-75—Update the open space and conservation elements of the general plan and identify ways to promote the preservation and enhancement of the beneficial functions of floodplains.</p>				
DCP, BOE, LASAN	General Fund	High	Short term	1, 4, 10
<p>P-76—Coordinate floodplain management programs within the Los Angeles River impact area with those projects identified in the Los Angeles River Revitalization Master Plan.</p>				
BOE, LASAN	Federal and State Funds, Possible grants, General Fund	Medium	Long term	1, 2, 9
<p>P-77—The City currently has five approved Enhanced Watershed Management Plans: Ballona Creek, Dominguez Channel, Marina Del Rey, Santa Monica Bay, and Upper Los Angeles River. These plans were approved in 2016 by the Los Angeles Regional Water Quality Control Board. The plans are considered adaptive management plans and must be reassessed and submitted for approval to the Water Quality Control Board every 5 years to ensure the City is working toward meeting its water quality compliance mandates.</p>				
LASAN, BOE	Safe Clean Water Program Fund, General Fund/Stormwater Pollution Abatement Fund, Possible Grants	Low	Short term	1, 2, 3, 7, 10

Lead Department ^a	Possible Funding Sources	Estimated Project Cost	Time Line	Objectives
P-78 —Coordinate floodplain management program recommendations and objectives with the Enhanced Watershed Management Plans.				
<u>BOE</u> , LASAN	Safe Clean Water Program Fund, General Fund/Stormwater Pollution Abatement Fund, Possible Grants	Medium	Long term	1, 2, 3, 7, 10
P-79 —Include an identifier for RLAA properties in the DBS permitting process so that property owners can be made aware of the potential flood risk when applying for construction permits.				
DCP, <u>BOE</u> , DBS	General Fund	Low	Short term	All

a. Where multiple departments are listed, the underlined department will be the lead agency for overseeing implementation of the action.

13.3 STATUS OF ACTIONS FROM FMP2015

All actions selected for the action plan are carried over from the FMP2015, with minor edits and clarifications due department name changes. The following changes are noted from the FMP2015:

- 2015 Action P-32—This action was split into two actions, one on enforcement and one on updating the code.
- 2015 Action P-33—This action is the residual action from P-32 above and is technically a new action for the FMP2020.
- 2015 Action P-34—This action is based on the combination of actions P-33 and P-53 from the FMP2015.
- 2015 Action P-69—This action has been completed so is not carried over for the current update.

13.4 BENEFIT/COST ANALYSIS AND ACTION PLAN PRIORITIZATION

A qualitative benefit-cost review was performed for each identified mitigation action. The benefit/cost analysis was not of the detailed variety required by FEMA for project grant eligibility under the Hazard Mitigation Grant Program and Pre-Disaster Mitigation grant program. A less formal approach was used because some projects may not be implemented for up to 10 years, and associated costs and benefits could change dramatically in that time. Parameters were established for assigning subjective ratings (high, medium, and low) to the costs and benefits of each action:

- Cost ratings were defined as follows:
 - **High**—Existing funding will not cover the cost of the project; implementation would require new revenue through an alternative source (for example, bonds, grants, and fee increases).
 - **Medium**—The project could be implemented with existing funding but would require a re-apportionment of the budget or a budget amendment, or the cost of the project would have to be spread over multiple years.
 - **Low**—The project could be funded under the existing budget. The project is part of or can be part of an ongoing existing program.
- Benefit ratings were defined as follows:
 - **High**—Project will provide an immediate reduction of risk exposure for life and property.
 - **Medium**—Project will have a long-term impact on the reduction of risk exposure for life and property, or project will provide an immediate reduction in the risk exposure for property.
 - **Low**—Long-term benefits of the project are difficult to quantify in the short term.

Using this approach, projects with positive benefit-versus-cost ratios (such as high over high, high over medium, medium over low, etc.) are considered cost-beneficial and are prioritized accordingly. The action plan was