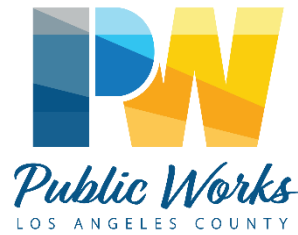


# COUNTY OF LOS ANGELES FLOODPLAIN MANAGEMENT PLAN PROGRESS REPORT



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2023-2024

**COUNTY OF LOS ANGELES  
FLOODPLAIN MANAGEMENT PLAN  
PROGRESS REPORT 2023-2024**

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**County of Los Angeles**  
**Comprehensive Floodplain Management Plan and**  
**Program for Public Information**  
**2024 Annual Progress Report**

**REPORTING PERIOD:** June 15, 2023 – June 14, 2024

**BACKGROUND:** The County of Los Angeles participates in the National Flood Insurance Program (NFIP) administered by the Federal Emergency Management Agency (FEMA) and in the NFIP's Community Rating System. In compliance with the NFIP, the County of Los Angeles prepared a Comprehensive Floodplain Management Plan, which is an overall strategy of programs, projects, and measures aimed at reducing the adverse impact of flood hazards in the communities of unincorporated Los Angeles County.

Throughout the years, Los Angeles County's Floodplain Management Plans for the unincorporated areas have evolved to meet the needs of the communities and to comply with applicable regulations. The County's first plan, titled *Repetitive Loss Plan for the National Flood Insurance Program Community Rating System (CRS) for the County of Los Angeles* was adopted by the County of Los Angeles Board of Supervisors in 1992 and approved by FEMA. The County prepared a subsequent Floodplain Management Plan for the unincorporated areas' repetitive loss properties, which FEMA approved in 2002. In 2015, the County prepared the *Comprehensive Floodplain Management Plan*, which expanded beyond the repetitive loss areas to include all unincorporated areas in Los Angeles County. This plan was adopted by the Los Angeles County Board of Supervisors in 2016. In 2020, the County of Los Angeles updated the *Comprehensive Floodplain Management Plan*, which was adopted by the County of Los Angeles Board of Supervisors on June 15, 2021.

The County of Los Angeles also prepared the *Los Angeles County Repetitive Loss Area Analysis* as a companion document to the Comprehensive Floodplain Management Plan. "Repetitive loss properties" are properties for which two or more claims of \$1,000 or more had been paid by the NFIP within any rolling 10-year period since 1978. A repetitive loss area includes properties nearby that are not repetitive loss properties, but due to their proximity may face a similar flood risk. This document provides an assessment of flooding and possible mitigation methods for repetitive loss areas. Repetitive loss areas were determined using a reverse of the depth-damage-function to determine the floodwater elevation and the possible extent of the flood hazard. The local drainage conditions were then considered to determine which of these neighboring properties may be susceptible to damage by that flood.

The *Comprehensive Floodplain Management Plan* was developed to meet the following objectives:

- Comply with local, State, and Federal requirements for floodplain management planning.
- Coordinate existing plans and programs to facilitate the implementation and funding of high-priority initiatives and projects to mitigate possible disaster impacts.
- Create a linkage between the *Comprehensive Floodplain Management Plan* and other plans established by the County of Los Angeles, so they can work together in achieving successful flood mitigation.

The updated *Comprehensive Floodplain Management Plan* is available online at:  
<https://dpw.lacounty.gov/wmd/NFIP/FMP/Plan.aspx>

The County of Los Angeles also developed a Program for Public Information (PPI) to identify, prepare, implement, and monitor a range of flood-related public information activities that meet specific, local needs. The PPI framework is described in Chapter 14 of the *Comprehensive Floodplain Management Plan*.

**PURPOSE:** The purpose of this Progress Report is to provide an annual update on the implementation of the action plan identified in the *Comprehensive Floodplain Management Plan* and on the implementation and evaluation of the outreach projects identified in the PPI. The objective is to ensure there is a continuing and responsive planning process that will keep the Floodplain Management Plan and related outreach efforts dynamic and responsive to the needs and capabilities of the County of Los Angeles and stakeholders. This report discusses the following:

- Flood events that have occurred during the reporting period (June 15, 2023, to June 14, 2024)
- Changes (if any) in risk exposure within the planning area (unincorporated County of Los Angeles)
- Mitigation success stories
- Changes (if any) in capabilities that could impact plan implementation
- *Comprehensive Floodplain Management Plan* implementation status
  - Review of the action plan
  - Recommendations for changes/enhancement
- Program for Public Information implementation and evaluation status
  - Review of the outreach projects
  - Review of progress toward desired outcomes
  - Recommendations for changes/enhancement

**FLOOD EVENTS WITHIN THE PLANNING AREA:** According to the County of Los Angeles precipitation records from October 1, 2022, to September 30, 2023 (the 2022-23 Water Year), the Downtown Los Angeles rain gage (Station No. 716) recorded 33.39 inches of rain. This is about 117 percent above the average annual rainfall of 15.40 inches. The precipitation records at Station No. 716 from October 1, 2023, to April 30, 2024 (the 2023-24 Storm Season), recorded 21.12 inches of rain, which is 37 percent above the average annual rainfall of 15.40 inches. If it does not rain again before September 30, 2024 (the end of the 2023-24 Water Year), it will be 43 percent above the normal rainfall to date of 14.72 inches. During the reporting period, there were six flood events in the planning area that had a measurable impact on people or property. A summary of these events follows:

1. Rainfall Event Dates: August 20 to 21, 2023  
(Tropical Storm Hilary, 2022-23 Water Year)

Rainfall Totals: Between 2.3 to 4.8 inches in the valleys and along the coast, and between 2.4 to 7.1 inches in the foothills and mountains.

Notable Impacts/Issues:

- Tropical Storm Hilary was an unusual rainfall event that occurred long after the 2022-23 Storm Season and just prior to the start of the 2023-24 Water Year.

- The National Oceanic and Atmospheric Agency (NOAA) issued a Tropical Storm Watch for Catalina Island on August 18, 2023, at 1500 hrs.
- NOAA issued a Tropical Storm Watch for southern California from the California/Mexico Border to Point Mugu, on August 18, 2023 at 2100 hrs.
- NOAA issued a Tropical Storm Warning for Catalina Island, and southern California from the California/Mexico Border to Point Mugu, on August 19, 2023 at 0300 hrs.
- Governor Gavin Newsom proclaimed a State of Emergency throughout California in order to enact emergency response and recovery efforts from Hurricane Hilary on August 19, 2023.
- Los Angeles County's Emergency Operations Center was activated on August 19, 2023.
- Los Angeles County Public Works' Department Operations Center (DOC) was activated at Level 3 (lowest level) on August 20, 2023, at 0000 hrs.
- The County of Los Angeles issued a proclamation of Local Emergency for Hurricane Hilary on August 20, 2023.
- The National Hurricane Center downgraded Tropical Storm Hilary to a "post-tropical cyclone" after it entered the U.S.
- The County issued Evacuation Warnings for areas of unincorporated Los Angeles County near the burn scars of the Lake Fire (Lake Hughes, Lancaster) and the north end of the Bobcat Fire (Monrovia, Sierra Madre, Arcadia, Bradbury, Duarte, Juniper Hills, Devil's Punchbowl, Valyermo, Big Rock Creek, Llano), due to the potential for debris and mud flow. Evacuation warnings were effective from 0600 hrs. on August 20, 2023, through 1800 hrs. on August 22, 2023. The County Emergency website (<https://lacounty.gov/emergency/>) was updated to include the evacuation warning message and mapped notification areas.
- The County issued a Phase 3 Debris Flow Forecast, which is issued when there is a potential for significant debris and mud flow, for recent burn areas in Los Angeles County with less than three years of recovery, including the burn areas in the Land (Los Angeles near McDonald Creek), Fish (Duarte), Grandview (Glendale), Ranch 2 (Azusa), Bobcat (Monrovia, Juniper Hills, Devil's Punchbowl, Valyermo), Lake (Lake Hughes, Lancaster), Tujunga (Sunland), Soledad (Agua Dulce), and Equestrian (Castaic) Fires.
- The County issued a Phase 2 Debris Flow Forecast, which is issued when there is a potential for moderate to heavy debris and mud flow, for recent burn areas in Los Angeles County with less than four years of recovery, including the burn areas in the Getty (Los Angeles), Tick (Santa Clarita, Canyon Country), Saddleridge (Los Angeles, Santa Clarita), and Colorado (Glendale, Los Angeles) Fires.
- Road hazards due to storm:

- County crews cleared rockslides in Soledad Canyon, Bouquet Canyon, Red Rover, Escondido Canyon, Vasquez Canyon and Canyon Crest Roads, and Sierra Highway (Santa Clarita, Canyon Country).
- The County closed several roads and sites for clearing of debris, including, Marburn Avenue (Windsor Park) and The Old Road (Castaic).
- County crews responded to a total of 31 incidents of fallen trees, limbs, or branches on roads and streets in numerous unincorporated areas throughout Los Angeles County.

2. Rainfall Event Dates: December 20 to 21, 2023

Rainfall Totals: Between 0.4 to 2.5 inches in the valleys and along the coast, and between 0.3 to 3.8 inches in the foothills and mountains.

Notable Impacts/Issues:

- Los Angeles County Public Works' Department Operations Center (DOC) was activated at Level 3 (lowest level) on December 20, 2023, at 1200 hrs.
- NOAA's Flood Advisory for portions of Los Angeles County was in effect until 1600 hrs. on Thursday, December 21, 2023.
- A Flood Watch was in effect for Los Angeles County until 0400 hrs. Friday, December 22, 2023.
- The County issued Evacuation Warnings for areas of unincorporated Los Angeles County near the burn scars of the Agua Fire (Soledad Canyon Road east of Agua Dulce Canyon Road (Canyon Country) and Owen Fire (Topanga Evacuation Zone 4 (Santa Monica Mountains)), due to potential for mud or debris flows.
- At 1243 hrs., the County issued a No Phase mudflow forecast, which is issued for a potential for minimal mudflow, for all burn areas.
- Road hazards due to storm:
  - County crews removed a boulder from the roadway at Mt. Baldy Road and East Fork Road (Angeles National Forest).

3. Rainfall Event Dates: January 22, 2024

Rainfall Totals: Between 0.4 and 1.5 inches along the coasts and in the valleys, and between 0.2 and 1.6 inches in the foothills and mountains.

Notable Impacts/Issues:

- Los Angeles County Public Works' Department Operations Center (DOC) was activated at Level 3 (lowest level) on January 22, 2024, at 0600 hrs.
- The County issued Evacuation Warnings for areas of unincorporated Los Angeles County near the burn scars of the Agua Fire (Angeles National Forest, Acton) and Owen Fire (Unincorporated Topanga (Santa Monica Mountains)), due to the potential for mud or debris flows. The County Emergency website (<https://lacounty.gov/emergency/>) was updated to include the evacuation warning message and mapped notification areas.
- All County Evacuation Warnings were in effect from 2100 hrs. on Sunday, January 21, 2024, through 0600 hrs. on Tuesday, January 23, 2024.
  - Agua Fire evacuation Warning Areas: Soledad Canyon Road East of Agua Dulce Canyon Road (Canyon Country).
  - Owen Fire Evacuation Warning Areas: Topanga Zone 4 (Santa Monica Mountains).
- The County issued a Phase 2 Debris Flow Forecast, which is issued for a potential for moderate to heavy debris and mudflow, for recent burn areas in Los Angeles County with less than two years of recovery, including the burn areas in the Agua (Angeles National Forest, Acton), Owen (Unincorporated Topanga (Santa Monica Mountains)), Land (Los Angeles near McDonald Creek), and Fish (Duarte, Azusa) Fires.
- The County issued a Phase 1 Debris Flow Forecast, which is issued for a potential for small, isolated debris and mudflow, for recent burn areas in Los Angeles County with two to four years of recovery, including the burn areas in Grandview (Glendale), Ranch 2 (Azusa), Bobcat (Monrovia, Juniper Hills, Devil's Punchbowl, Valyermo), Lake (Lake Hughes, Lancaster), Tujunga (Sunland), and Soledad (Agua Dulce) Fires.
- No storm related road closures reported for unincorporated areas.

4. Rainfall Event Dates: February 4 to 7, 2024

Rainfall Totals: Between 4.9 and 12.2 inches along the coasts and in the valleys, and between 4.2 and 13.7 inches in the foothills and mountains.

Notable Impacts/Issues:

- Governor Gavin Newsom proclaimed a state of emergency on Sunday, February 4, 2024, for Los Angeles County and other counties in southern California.
- Los Angeles County proclaimed a Local Emergency on February 4, 2024.
- The County Emergency Operations Center was activated on February 4, 2024.

- Los Angeles County Public Works' Department Operations Center (DOC) was activated at Level 3 (lowest level) on February 4, 2024, at 1200 hrs.
- NOAA sent out the following notifications during this storm:
  - Flash Flood Warning including the cities of Los Angeles, Long Beach, and Pomona was in effect from Sunday, February 4, 2024, until 1000 hrs. Tuesday, February 6, 2024.
  - A Flood Watch was in effect for Los Angeles County from Sunday, February 4, 2024, until 0100 hrs. on Wednesday, February 7, 2024.
  - A Winter Storm Warning was in effect for the Eastern San Gabriel Mountains of Los Angeles County from Sunday, February 4, 2024, until 0800 hrs. on Thursday, February 8, 2024.
  - A Flood Advisory was in effect for portions of Los Angeles County from Monday, February 5, 2024, until 0100 hrs. on Wednesday, February 7, 2024.
  - A Winter Weather Advisory was in effect for the Western San Gabriel Mountains of Los Angeles County from Tuesday, February 6, 2024, until 2200 hrs. on Tuesday, February 6, 2024.
  - A Winter Weather Advisory was in effect for the Interstate 5 corridor and Tejon Pass from Tuesday, February 6, 2024, until 0800 hrs. on Thursday, February 8, 2024.
- The County issued Evacuation Warnings that were in effect from 1000 hrs. on Sunday, February 4, 2024, to 1800 hrs. on Tuesday, February 6, 2024, for the following areas, due to potential for mud or debris flow:
  - Agua Fire - Soledad Canyon Rd east of Agua Dulce Canyon Rd. (Santa Clarita, Canyon Country. Started as an Evacuation Order, but was later downgraded to an Evacuation Warning)
  - Owen Fire –Topanga Zone 4, including Santa Maria Rd from Topanga Canyon Bl. (Santa Monica Mountains. Started as an Evacuation Order, but was later downgraded to an Evacuation Warning)
  - Bobcat Fire – Juniper Hills and Valyermo areas.
  - Lake Fire – Lake Hughes and King Canyon areas.
- The City of Duarte's Evacuation Warning was in effect from 1800 hrs. on Sunday, February 4, 2024, to 1500 hrs. on Tuesday, February 6, 2024, for the following area due to potential for mud or debris flow:
  - Fish Fire – area of Mel Canyon Road between Fish Canyon Road and Bookridge Road
- The County issued the following Debris Flow Forecasts for burn areas in Los Angeles County:



- Phase 3 for the burn areas with less than two years of recovery, in the Agua (Angeles National Forest, Acton), Owen (Unincorporated Topanga), Land (Los Angeles, near McDonald Creek), and Fish (Duarte) Fires, from Sunday, February 4, 2024, at 1000 hrs through Tuesday, February 6, 2024 at 1800 hrs. (Downgraded to a Phase 2 at 1000 hrs on Tuesday, February 6. Downgraded to a Phase 1 on Wednesday, February 7 at 1300 hrs and extended to Thursday, February 8, at 0600 hrs.)
- Phase 2 Debris Flow Forecast for the burn areas with two to four years of recovery, in the Grandview (Glendale), Ranch2 (Azusa), Bobcat (Monrovia, Juniper Hills, Devil's Punchbowl, Valyermo), Lake (lake Hughes, Lancaster), Tujunga (Sunland), and Soledad Fires (Agua Dulce) Fires, from Sunday, February 4, 2024, at 1000 hrs through Tuesday, February 6, 2024 at 1800 hrs. (Downgraded to a Phase 1 at 1000 hrs on Tuesday, February 6. Downgraded to a No Phase on Wednesday, February 7 at 1300 hrs and extended to Thursday, February 8, at 0600 hrs.)
- No Phase for all other burn areas, from Sunday, February 4, 2024, at 1000 hrs through Tuesday, February 6, 2024 at 1800 hrs. (Extended to Thursday, February 8, at 0600 hrs.)
- Road hazards due to storm:
  - County crews cleared mudslides on Edgeridge Drive (Hacienda Heights), Hillside Drive from Summit Rd to Stonewall Trail (Santa Monica Mountains), Ramona Boulevard at Campus Road (East Los Angeles), Latigo Canyon Road at Newton Canyon Road (Santa Monica Mountains), Piuma Road at Crater Camp Drive (Santa Monica Mountains), Saddle Peak Road (Santa Monica Mountains), and Rose Hill Road (Whittier).
  - County crews cleared rockslides on Grand Avenue near Cameron Avenue (West Covina), Mulholland Highway from Pacific Coast Highway to Little Sycamore Canyon Road (Santa Monica Mountains), and Old Topanga Canyon Road from Red Rock Road to Hondo Canyon Road (Santa Monica Mountains).
  - The County closed several roads and sites for clearing of debris including Mondo Drive in La Habra Heights, Piuma Road Bridge over Cold Creek (Santa Monica Mountains), Lake Vista Bridge over Malibu Creek (Santa Monica Mountains), and San Dimas Canyon Road (San Dimas).
  - County crews responded to a total of three incidents of fallen trees, limbs, or branches in several unincorporated areas.

5. Rainfall Event Dates: February 18 to 21, 2024

Rainfall Totals: Between 1.6 and 3.3 inches along the coasts and in the valleys, and between 1.1 and 7.9 inches in the foothills and mountains.

Notable Impacts/Issues:

- Los Angeles County Public Works' Department Operations Center (DOC) was activated at Level 3 (lowest level) on February 20, 2024, at 0600 hrs.
- NOAA issued a Flood Watch that was in effect for Los Angeles County through 1000 hrs. Wednesday, February 21, 2024.
- The County issued an Evacuation Warning that was in effect from 0900 hrs. on Monday, February 19, 2024, to 0900 hrs. on Wednesday, February 21, 2024, for the areas below due to potential for mud or debris flow:
  - Agua Fire - Soledad Canyon Road east of Agua Dulce Canyon Road (Sanya Clarita, Canyon Country. Started as an Evacuation Order, but was later downgraded to an Evacuation Warning)
  - Owen Fire –Topanga Zone 4, including Santa Maria Road from Topanga Canyon Boulevard (Santa Monica Mountains).
- The County issued the following Debris Flow Forecasts that were in effect from Monday, February 19, 2024 at 0900 hrs., to Wednesday, February 21, at 0900 hrs.:
  - A Phase 2 Debris Flow Forecast, which is issued for a potential for moderate to heavy debris and mudflow, for the recent burn areas in Los Angeles County with less than two years of recovery including the burn areas of the Agua (Angeles National Forest, Acton), Owen (Unincorporated Topanga (Santa Monica Mountains), Land (Los Angeles near McDonald Creek), and Fish (Duarte, Azusa) Fires.
  - A Phase 1 Debris Flow Forecast, which is issued for a potential for small, isolated debris and mudflow, for the burn areas in Los Angeles County with two to four years of recovery including the burn areas of the Grandview (Glendale), Ranch 2 (Azusa), Bobcat (Monrovia, Juniper Hills, Devil's Punchbowl, Valyermo), Lake (Lake Hughes, Lancaster), Tujunga, and Soledad (Agua Dulce) Fires.
  - A No Phase Debris Flow Forecast for burn areas in Los Angeles County with more than four years of recovery.
- Road hazards due to storm:
  - County crews cleared mudslides on Hume Road (Santa Monica Mountains).

- County crews cleared rockslides on Malibu Canyon Road from Piuma Road to Pacific Coast Highway (Santa Monica Mountains) and on Crystal Lake Road at Mile Marker 2.0 (Angeles National Forest).
- The County closed several roads and sites for clearing of debris, including Santa Maria Road (private road) and Mulholland Highway from Pacific Coast Highway to Little Sycamore Canyon Road (Santa Monica Mountains).
- County crews responded to two larger incidents of fallen trees, as well as cleared smaller tree limbs and branches.

6. Rainfall Event Dates: March 30, 2024

Rainfall Totals: Between 1.0 and 1.7 inches along the coasts and in the valleys, and between 0.7 and 2.6 inches in the foothills and mountains

Notable Impacts/Issues:

- Los Angeles County Public Works' Department Operations Center (DOC) was activated at Level 3 (lowest level) on March 30, 2024, at 0600 hrs.
- NOAA issued the following notifications:
  - A Flood Advisory that was in effect for Central and Southern Los Angeles County through 0915 hrs. on Saturday, March 30, 2024.
  - A Winter Storm Warning that was in effect for the San Gabriel Mountains and Highway 14 Corridor through 2300 hrs. on Sunday, March 31, 2024.
  - A Flood Watch that was in effect for Los Angeles County through 1800 hrs. on Sunday, March 31, 2024.
- The County issued an Evacuation Warning that was in effect from 2000 hrs. on Friday, March 29, 2024, to 1800 hrs. on Sunday, March 31, 2024, for potential mud or debris flow in the Agua (Angeles National Forest, Acton) and Owen (Unincorporated Topanga) Fire areas.
- The County issued the following Debris Flow Forecasts that were in effect from 2000 hrs. on Friday, March 29, 2024, through 1800 hrs. on Sunday, March 31, 2024:
  - A Phase 2 Debris Flow Forecast, which is issued for a potential for moderate to heavy debris and mudflow, for recent burn areas in Los Angeles County with less than two years of recovery including the burn areas of the Agua (Angeles National Forest, Acton), Owen (Unincorporated Topanga), Land (Los Angeles near McDonald Creek), and Fish (Duarte, Azusa) Fires.

- A Phase 1 Debris Flow Forecast, which is issued for a potential for small, isolated debris and mudflow, for burn areas in Los Angeles County with two to four years of recovery, including the burn areas of the Grandview (Glendale), Ranch 2 (Azusa), Bobcat (Monrovia, Juniper Hills, Devil's Punchbowl, Valyermo), Lake (Lake Hughes, Lancaster), Tujunga (Sunland), and Soledad (Agua Dulce) Fires.
- A No Phase Debris Flow Forecast for burn areas in Los Angeles County with more than four years of recovery.
- Road hazards due to storm:
  - The County closed Malibu Canyon Road, from Pacific Coast Highway to Piuma Road (Santa Monica Mountains)

**CHANGES IN RISK EXPOSURE IN THE PLANNING AREA:**

Not applicable during this reporting period.

**MITIGATION SUCCESS STORIES:**

**1. Altadena Neighborhood Retrofits Projects (IRWM)**

The project features the installation of 20 parkway basins and 20 home retrofits throughout the unincorporated County area of Altadena with assistance by residents. The home retrofits were site-specific designs that included new landscaping and Low Impact Development (LID) measures. These LID elements included rain tanks for water reuse, rain grading for stormwater infiltration, greywater systems for irrigation and infiltration, and replacing high-water turf with drought-tolerant and/or edible landscaping. These parkway basins are small, landscaped depressions placed between sidewalks and roadways that help capture and infiltrate stormwater runoff. Construction was completed in July 2023.

**2. Bradbury Channel Repair**

The project will improve the resiliency of the Bradbury Channel drain. The project had three main components: repair of damaged concrete inside the Bradbury Channel drain, removal and installation of metal protection barriers at Charter Oak Drain and MTD 262, and construction of a 130-linear-foot, 36-inch diameter storm drain to connect to MTD 635. The repair and construction of the new storm drain will improve flood protection in the local community. Construction was completed in September 2023.

**3. Gates Canyon Stormwater Improvements Project**

The stormwater improvements include new infiltration wells, underground storage, and a water treatment system for landscape irrigation reuse at Gates Canyon Park in Calabasas. In addition, the project incorporated ground park improvements and educational signage. This will help enhance the overall water quality of Las Virgenes Creek and Malibu Creek, increase local water supply in the Santa Monica Mountains region, through the use of an alternate source of water irrigation, and provide community enhancement and outreach opportunities. Construction was completed in April 2024.

**4. Nogales Park Stormwater Capture Project**

The new 0.5-acre park in the Walnut Park area includes a staff office, public restrooms, playground, splash pad, open lawn area, and additional park amenities.

The project also includes a diversion system and infiltration dry wells to divert and capture both urban and stormwater runoff, which will reduce bacteria and metal pollutants from entering the Los Angeles River. Construction was completed in May 2024.

**CHANGES THAT MAY IMPACT IMPLEMENTATION OF THE PLAN:**

Not applicable during this reporting period.

**FLOODPLAIN MANAGEMENT PLAN PROGRESS**

**Summary Overview of the Plan’s Progress:** The performance period for the updated *Comprehensive Floodplain Management Plan* became effective on June 15, 2021, with the final adoption of the Plan by the Board of Supervisors. The performance period for this plan will be five years, with an anticipated update to the plan to occur by 2026. As of the end of this reporting period, the performance period for this Plan is considered to be 81 percent complete. The Plan has targeted 37 flood hazard mitigation initiatives to be pursued during the five-year performance period. As of the reporting period, the following overall progress can be reported:

- 12 out of 37 initiatives (32.4 percent) reported ongoing action toward completion.
- 24 out of 37 initiatives (64.9 percent) were reported as being complete, continue to implement as necessary.
- One out of 37 initiatives (2.7 percent) reported no action taken.

**The Floodplain Management Plan Steering Committee:** The Floodplain Management Plan Steering Committee, made up of stakeholders within the planning area, reviewed and approved this progress report at its annual meeting held on June 26, 2024. It was determined through the Plan’s development process that a Steering Committee would remain in service to oversee maintenance of the Plan. The Steering Committee provided technical review and oversight on the development of the annual progress report. As the implementation of the Floodplain Management Plan moves forward, it is anticipated that there will be turnover in the membership annually, which will be documented in the progress reports. For this reporting period, the Steering Committee membership is as indicated in Table 1.

<b>TABLE 1 STEERING COMMITTEE MEMBERS (REPORTING PERIOD JUNE 15, 2023 – JUNE 14, 2024)</b>	
Name	Jurisdiction/Agency
Patricia Wood (Chairperson)	Los Angeles County Public Works Stormwater Engineering - CRS Coordinator
Gina Natoli (Chairperson)	Los Angeles County Regional Planning
Loni Eazell	Los Angeles County Public Works Emergency Management Group
Tera Haramoto	Los Angeles County Public Works Building & Safety
Eden Berhan	Los Angeles County Public Works Stormwater Maintenance
Martin Araiza	Los Angeles County Public Works Stormwater Engineering - Hydrology & Hydraulics

**TABLE 1  
STEERING COMMITTEE MEMBERS  
(REPORTING PERIOD JUNE 15, 2023 – JUNE 14, 2024)**

Name	Jurisdiction/Agency
Marcela Benavides	Los Angeles County Public Works Stormwater Planning
Kari Eskridge & Lisette Guzman	Los Angeles County Public Works Community Government Relations Group
Mark Martinez	Los Angeles County Fire Department
Samson Wong	Los Angeles City Bureau of Engineering
Mark Caddick	Resident, Acton
Dorothy Wong	Altadena Town Council
Shannon Ggem	Malibou Lake Mountain Club
John Blalock	Resident, Antelope Valley
Erica Frausto-Aguado	American Red Cross, Los Angeles Region
Salomon Miranda	California Department of Water Resources
Dr. Stephen Ladochy	Cal State Los Angeles Meteorology
Kevin Gaston	TreePeople Restoration Group
Debbie Sharpton	Environmental Restoration Group

**Review of the Action Plan:** Table 2 reviews the Action Plan, reporting the status of each initiative. Reviewers of this report should refer to the *Comprehensive Floodplain Management Plan* for more detailed descriptions of each initiative and the prioritization process. Projects marked completed will continue to be implemented as necessary.

The “Status” column of Table 2, addresses the following:

- Was any element of the initiative carried out during the reporting period?
- If no action was completed, why?
- Is the timeline for implementation for the initiative still appropriate?

<b>TABLE 2 ACTION PLAN MATRIX (REPORTING PERIOD JUNE 15, 2023 – JUNE 14, 2024)</b>			
<i>Completion status legend:</i> ✓ = Project Completed      O = Action ongoing toward completion      X = No Progress at this time			
Action Taken?	Priority	Status	Completion Status (✓, O, X)
Initiative No. 1 — Promote awareness of flood hazards to residents in flood hazard areas.			
Yes	High	In October 2023, County of Los Angeles Public Works (Public Works) mailed 1,679 copies of "Are You Prepared for A Flood?" booklet to property owners and residents in FEMA-designated Special Flood Hazard Areas, County Floodways, and possible gaps in the floodplain maps. The links on Los Angeles County Public Works' National Flood Insurance Program (NFIP) were checked and updated. The "Are You Prepared for A Flood?" booklet was translated into Chinese and posted to Public Works' NFIP website in April 2024. The English and Spanish versions of the booklet are also available on the County's NFIP website. The English and Spanish booklets were distributed to the Castaic, Lancaster, Malibu, Quartz Hill, and Topanga Public Libraries. Booklets were also distributed to the Los Angeles County Building and Safety offices.  In May 2024, Public Works issued a Notice to Proceed to a consultant to assist Public Works in implementing its strategy to improve flood risk outreach to unincorporated area residents. Public Works' strategy outlines future measures such as webinars tailored to unincorporated communities, links to Public Works' NFIP website on the websites of unincorporated area town councils and professional organizations, and preparation of plans for outreach to Tribal and non-digital residents.	✓
Initiative No. 2 — Develop and distribute flood protection information and materials to property owners, renters, and developers in high-risk areas.			
Yes	High	In October 2023, Public Works mailed 1,679 copies of "Are You Prepared for A Flood?" booklet to property owners and residents in FEMA-designated Special Flood Hazard Areas, County Floodways, and possible gaps in the floodplain maps. Additionally, links to County of Los Angeles and FEMA publications were included in the letters mailed to all property owners, and residents in Repetitive Loss Properties (RLP) and properties in the Repetitive Loss Areas (RLA).	✓

**TABLE 2  
ACTION PLAN MATRIX  
(REPORTING PERIOD JUNE 15, 2023 – JUNE 14, 2024)**

<i>Completion status legend:</i>			
✓ = Project Completed		O = Action ongoing toward completion	
X = No Progress at this time			
Action Taken?	Priority	Status	Completion Status (✓, O, X)
Initiative No. 3 — Maintain a list of critical facilities located in FEMA-designated flood zones, provide flood protection information to operators of these critical facilities, and encourage the implementation of flood protection measures.			
Yes	High	In October 2023, Public Works mailed letters and outreach materials to owners of critical facilities located in FEMA-designated Special Flood Hazard Areas. Critical facilities that received outreach materials include schools, fire stations, and health care facilities.	✓
Initiative No. 4 — Investigate Repetitive Loss Properties identified by FEMA and update the Repetitive Loss Property and high-risk property list. Conduct the following flood control activities for these properties:			
<ul style="list-style-type: none"> <li>• Annually notify owners regarding local flood hazards and proper protection activities</li> <li>• Provide technical advice regarding flood protection and flood preparedness</li> <li>• Distribute a revised questionnaire to new Repetitive Loss Properties</li> </ul>			
	High	Public Works performs field visits to all RLP and RLA properties a minimum of once every five years. In September 2023, 237 letters were mailed with links to FEMA and County of Los Angeles publications to all property owners and residents in unincorporated area RLP and RLA properties.	O
Initiative No. 5 — Make 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.			
Yes	High	Public Works provides sandbags to the Los Angeles County Fire Department for distribution to residents through over 160 local Fire Stations. Demand for sandbags varies from year to year. For the 2023-24 storm season, 392,000 sandbags were distributed to the Los Angeles County Fire Department. Public Works currently maintains over 750,000 sandbags for distribution. Public Works also maintains a website where residents can search for the nearest location to obtain sandbags: <a href="http://dpw.lacounty.gov/dsg/sandbags/">http://dpw.lacounty.gov/dsg/sandbags/</a>	✓



**TABLE 2  
ACTION PLAN MATRIX  
(REPORTING PERIOD JUNE 15, 2023 – JUNE 14, 2024)**

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		X = No Progress at this time	
Action Taken?	Priority	Status	Completion Status (✓, O, X)
Initiative No. 6 — Provide public education about maintaining the stormwater system free of debris.			
Yes	High	<p>In an effort to educate the public and promote behavioral change to prevent stormwater pollution, Public Works implements the Public Information and Participation Program (which is separate from the Program for Public Information (PPI) in Chapter 14 of the <i>Comprehensive Floodplain Management Plan</i>) that addresses water quality priorities and stormwater management program priorities. In addition, Public Works continues water education through their Water for LA (<a href="http://www.WaterForLA.com">www.WaterForLA.com</a>) and CleanLA (<a href="http://www.CleanLA.com">www.CleanLA.com</a>) platforms, to provide trusted information to the residents of LA County and inspire them to reevaluate their relationship with water. As part of the Water for LA countywide water educational program, Public Works conducts social media and outreach at community events to residents and businesses across Los Angeles County and implements earned and paid media outreach campaigns consisting of press releases, digital display, video, radio, and print. Stormwater capture and management pollution prevention topics included regular updates on stormwater capture data, multi-benefit and stormwater infrastructure projects, including advice for residents and businesses on emergency preparedness, how to prepare for a storm and protect against flooding, instructions for properly disposing of household hazardous waste as well as tips on how to reduce pollutants such as pesticides, litter, and other common household chemicals. Other ongoing outreach efforts include:</p> <ul style="list-style-type: none"> <li>• Youth education outreach at various community events, including the PW Environmental Youth Summit and at Dodgers events through partnership with iHeart Radio</li> <li>• Education on preventing waterway pollution through the Ballona Creek Trash Interceptor pilot project</li> <li>• Advocating for flood preparedness through messaging on social media and the news media</li> <li>• Increasing awareness of the various programs via Water for LA through a countywide campaign for the newly adopted county motion for the LA County Water Plan</li> <li>• School education outreach programs, Environmental Defenders (K-5<sup>th</sup> grade) and Generation Earth (6-12<sup>th</sup> grade)</li> <li>• Used Motor Oil and Oil Filter Campaign</li> <li>• Household Hazardous and Electronic Waste Program</li> <li>• Smart Gardening Program</li> </ul>	✓
Initiative No. 7 — Continue to maintain/enhance the County’s classification under the Community Rating System to address increased flood insurance costs and promote safety and preparedness.			
Yes	High	The County of Los Angeles held a CRS class standing of 6 from June 15, 2023, to June 14, 2024. The County continues to identify activities to help maintain and improve the CRS class rating.	✓

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Action Taken?	Priority	Status	Completion Status (✓, O, X)
Initiative No. 8 — Implement the Program for Public Information protocol identified in this plan including appropriate messaging for compliance with ADA.			
Yes	High	The County of Los Angeles continued implementation of the Program for Public Information. A report detailing the PPI implementation status for the 2023-24 period was approved by the PPI Committee on May 6, 2024, and it is included at the end of this report.	✓
Initiative No. 9 — Provide emergency preparedness and flood protection information to the general public.			
Yes	High	<p>The County of Los Angeles provided emergency and flood protection information to the public through different means including:</p> <ul style="list-style-type: none"> <li>• The <b>Los Angeles County Emergency</b> website is specifically devoted to emergency announcements currently happening in the county. <a href="http://www.lacounty.gov/emergency/">http://www.lacounty.gov/emergency/</a></li> <li>• The <b>ReadyLACounty</b> website provides emergency preparation information that includes resources, tips, and facts to equip and alert residents on how to best respond to emergencies and recover from disasters: <a href="https://ready.lacounty.gov/">https://ready.lacounty.gov/</a></li> <li>• The <b>County of Los Angeles Chief Executive Office - Office of Emergency Management</b> website features informational resource links to Federal, State, and local government emergency operations departments and agencies, and nongovernmental organizations in the Document Library/Links section: <a href="https://ceo.lacounty.gov/emergency-management/">https://ceo.lacounty.gov/emergency-management/</a></li> <li>• Various flood hazard videos produced by Public Works and made available through <b>YouTube</b> including: <ul style="list-style-type: none"> <li>- Storm water safety: <a href="https://www.youtube.com/watch?v=5jFI6Z-Ld4w">https://www.youtube.com/watch?v=5jFI6Z-Ld4w</a></li> <li>- Swift Water: <a href="https://www.youtube.com/watch?v=EcOpX7TGY84">https://www.youtube.com/watch?v=EcOpX7TGY84</a> <a href="https://www.youtube.com/watch?v=2_oejOP_o_k">https://www.youtube.com/watch?v=2_oejOP_o_k</a></li> <li>- Storm season evacuation: <a href="https://www.youtube.com/watch?v=gqrr1_o4WYA">https://www.youtube.com/watch?v=gqrr1_o4WYA</a> <a href="https://www.youtube.com/watch?v=07BHy2Acq-Q">https://www.youtube.com/watch?v=07BHy2Acq-Q</a></li> </ul> </li> </ul>	✓

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Action Taken?	Priority	Status	Completion Status (✓, O, X)
Initiative No. 10 — Distribute information regarding flood prevention and flood insurance at emergency operations and emergency preparedness events.			
Yes	High	Public Works has been distributing emergency preparedness information, including flood information at several events throughout the reporting year, which include: Rowland Heights Coordinating Community Council Annual Community BBQ, East LA Mexican Independence Day, Green City Ecological Gardening Market, Open Streets Event in Walnut Park, Arroyo Fest, Supervisor Lindsey Horvath's Emergency Preparedness Event, Community Lunar New Year Celebration at Pathfinder Park, Cesar Chavez Day at Sunshine Park, Hacienda Heights Park Spring Jubilee, Active Streets Mission to Mission, LA County Day at the Los Angeles County Fair, Take Action for Mental Health, and the 26 <sup>th</sup> Annual Tribute to Veterans & Military Families.	✓
Initiative No. 11 — Develop and maintain a list of priority maintenance-related problem sites.			
Yes	High	When Public Works encountered maintenance-related problem sites, Public Works mitigated maintenance-related issues with improvement projects and/or increased maintenance.	✓
Initiative No. 12 — Conduct routine maintenance of flood control facilities and additional maintenance as needed at priority maintenance-related flood problem sites.			
Yes	High	Public Works performed and continues to perform routine inspection and maintenance for approximately 3,400 miles of underground storm drains, 491 miles of concrete and soft-bottom channels, 14 major dams and reservoirs, 27 spreading grounds, 189 debris basins, 181 crib dams, 37 sediment placements sites, 61 pump stations, 21 low-flow diversion structures, 313 seawater barrier injection wells, 1 constructed wetland, 1 mitigation bank area, and 97,466 catch basins.	✓
Initiative No. 13 — Conduct a stormwater facilities condition assessment to identify the physical and hydraulic condition of the system and to support infrastructure management.			
Yes	High	Public Works' Stormwater Maintenance Division (SWMD) performed routine inspections of Los Angeles County Flood Control District (LACFCD) facilities per SWMD Standard Procedures. During inspections, any deficiencies exceeding LACFCD's Acceptable Maintenance Conditions were noted, and corresponding facilities were restored to LACFCD's standards.	✓

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Action Taken?	Priority	Status	Completion Status (✓, O, X)
<b>Initiative No. 14 — Evaluate storm drain, open channel, and flood retention basin facilities for future improvements.</b>			
Yes	High	Los Angeles County Public Works routinely conducts studies to determine flood hazard risks and evaluate its flood control facilities to identify potential future improvements. The Sun Valley Upper Storm Drain project, which is currently under construction, is a critical component of the Rory M. Shaw Wetlands Project. This 4.75-mile-long storm drain system will capture flows from the upper portion of Sun Valley watershed and deliver it to the future wetlands park facility. Phase 1 of 4, for the Sun Valley Upper Storm Drain was completed in 2023. Phase 2 is currently on hold, which will be completed after Phase 3. Phase 3 is currently in the design phase.	O
<b>Initiative No. 15 — Pursue appropriate flood hazard mitigation grant funding.</b>			
Yes	High	In December 2023, Los Angeles County Public Works submitted a sub application to CalOES for a FEMA Flood Mitigation (FMA) grant in the amount of \$900,000 and a \$300,000 California Match grant to prepare the Lake Hughes Master Drainage Plan. The total estimated cost to prepare the plan is \$1.2 million. In February 2024, CalOES submitted the County's application to FEMA for consideration. FEMA's decision is anticipated in August 2024. The County of Los Angeles continues to look for opportunities to work with FEMA to identify flood hazard mitigation funding opportunities.	O
<b>Initiative No. 16 — Consider the conversion of high-risk properties into open space.</b>			
Yes	Medium	Collaboration with owners of high-risk properties to consider the possibility of conversion into open space is consistent with Los Angeles County Public Works' goals to reduce flood risk, improve water conservation and quality, and create recreational opportunities for the County.	O
<b>Initiative No. 17 — Refine the plan check system to track properties in the flood zone and address drainage.</b>			
Yes	Medium	Los Angeles County Public Works implemented a plan check database system to better track and address permit requests from properties in flood zones.	✓
<b>Initiative No. 18 — Flag Repetitive Loss Properties in the plan and check database for review and approval of building permit applications.</b>			
Yes	High	Los Angeles County Public Works continues to implement a plan check database and flag repetitive loss properties for review and approval prior to building permit issuance.	✓

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Action Taken?	Priority	Status	Completion Status (✓, O, X)
Initiative No. 19 — Maintain a database system for tracking all reviewed and approved elevation certificates prior to the closure of a building permit.			
Yes	High	Los Angeles County Public Works continues to implement a plan check database to help track elevation certificates prior to the closure of a building permit.	✓
Initiative No. 20 — Evaluate opportunities for incorporating Watershed Ecosystem Restoration into projects.			
Yes	High	The County of Los Angeles continues to evaluate opportunities for watershed ecosystem restoration. Los Angeles County Public Works is currently working on a multi-benefit project to restore habitat in Bouquet Canyon Creek. The project covers approximately 8 miles of Bouquet Canyon Creek downstream of Bouquet Reservoir. In 2001, Bouquet Canyon was burned by wildfires. In 2005, major storms on the burned watershed caused significant sediment deposition in the creek. As a result, the creek's flow-carrying capacity has been greatly reduced, which has led to an overall degradation of the habitat along the creek and frequent closures of the adjacent Bouquet Canyon Road. This project aims to restore the habitat in Bouquet Canyon Creek by reestablishing the creek's flow pattern and flow-carrying capacity, to potentially increase fish habitat and replenish the groundwater wells of residents downstream. This will also prevent flow impacts to Bouquet Canyon Road during storm events and water releases from the City of Los Angeles' Bouquet Reservoir. Public Works obtained \$12 million in grant funding from the California Wildlife Conservation Board to cover the costs of the planning, design and permitting of the project.	O
Initiative No. 21 — Where feasible, cost-effective and supported both publicly and politically, restore the natural and beneficial functions of floodplains.			
Yes	Medium	Los Angeles County Public Works continues to evaluate opportunities to restore the natural and beneficial floodplain functions. Public Works is maintaining the completed Santa Anita Habitat Mitigation Project. The project created a habitat in an area previously without vegetation and biodiversity. Public Works collaborated with experts in the field of ecology, arboriculture, wildlife biology, landscape architecture, native plant nurseries and native seed collectors. Maintenance and monitoring are currently ongoing. In addition, Public Works began working on the Big Tujunga Wash Mitigation Area. The Creek Fire in 2017 burned though the mitigation area, leaving the plant communities severely damaged or destroyed. The Creek Fire has provided an opportunity to reestablish trails and restore habitat function essential for sensitive wildlife species. The recovery and maintenance activities will be conducted through December 2024.	O

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Action Taken?	Priority	Status	Completion Status (✓, O, X)
Initiative No. 22 — Encourage the application of biological resource measures for the control of stormwater and erosion to the best of their applicable limits.			
Yes	High	The County of Los Angeles enforces Low-Impact Development (LID) for stormwater management by adopting a LID ordinance and creating a LID Standards Manual. LID is an approach to stormwater management that works to mimic the natural hydrology of the site by retaining precipitation on-site to the maximum extent practicable. LID strategies are designed to protect surface and groundwater quality, maintain the integrity of ecosystems, and preserve the physical integrity of receiving waters by managing stormwater runoff at or close to the source. LID Standards Manual is in the process of being updated (see Initiative No. 24).	✓
Initiative No. 23 — Maintain the Operational Area Emergency Response Plan			
Yes	High	In 2023, the County of Los Angeles Board of Supervisors and the Chief Executive Office updated and approved the County of Los Angeles Operational Area Emergency Operations Plan. The new plan conforms to the requirements of the National Response Framework, National Incident Management System, National Disaster Recovery Framework, and the California Standardized Emergency Management System.	✓
Initiative No. 24 — Maintain standards for the use of structural and nonstructural techniques that mitigate flood hazards and manage stormwater pollution.			
Yes	High	Public Works prepared and enforced the 2014 Low Impact Development (LID) Standards Manual, which provides guidance for the implementation of stormwater quality control measures in development projects with the intention of improving water quality and mitigating potential water quality impacts from stormwater and non-stormwater discharges. Stormwater Quality Division is currently updating the LID Ordinance to align with the MS4 permit requirements. The final draft of the updated LID Standards Manual is anticipated to be completed by summer 2024. In addition, Public Works enforces the National Pollutant Discharge Elimination System (NPDES), Best Management Practices for Construction Activities, and requires erosion control sediment plans during the construction phase of residential and commercial projects.	O
Initiative No. 25 — Continue to require environmental review in the development process to provide for the creation or protection of natural resources that can mitigate the impacts of development.			
Yes	High	The County of Los Angeles Department of Regional Planning performs environmental review for land use planning for unincorporated communities in Los Angeles County. Projects that generally require an environmental assessment are plan amendments, zone changes, conditional use permits, tentative parcel maps, and tentative tract maps.	O

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Action Taken?	Priority	Status	Completion Status (✓, O, X)
Initiative No. 26 — 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.			
Yes	High	Public Works continues to enforce NFIP regulations for building permit applications determined to be Substantial Improvement or repair of Substantial Damage to protect the investment and safety of the current and future property owners and tenant of theirs. Over time, this will reduce the number of buildings exposed to flood risk.	✓
Initiative No. 27 — Use risked-based information from the County of Los Angeles Comprehensive Floodplain Management Plan and the County of Los Angeles Hazard Mitigation Plan to update the Safety Element of the County's General Plan.			
Yes	High	<p>The Los Angeles County General Plan was adopted by the County of Los Angeles Board of Supervisors on October 6, 2015.</p> <p>The Safety Element of the County's General Plan works in conjunction with the County's Operational Area Emergency Response Plan (OAERP). The OAERP, prepared by County of Los Angeles Chief Executive Office (CEO) – Office of Emergency Management, strengthens short- and long-term emergency response and recovery capability, and identifies emergency procedures and emergency management routes in the County of Los Angeles. The Los Angeles County Board of Supervisors approved the Department of Regional Planning's General Plan Safety Element Update on July 12, 2022.</p> <p>The Local All-Hazard Mitigation Plan, which provides policy guidance for minimizing threats from natural and manmade hazards in the County of Los Angeles, was updated in July 2020. The new plan used the 2016 County of Los Angeles Floodplain Management Plan and 2015 County of Los Angeles General Plan as resources. A copy of the updated plan is available to view at:</p> <p><a href="https://ceo.lacounty.gov/wp-content/uploads/2022/04/County-of-Los-Angeles-All-Hazards-Mitigation-Plan-APPROVED-05-2020.pdf">https://ceo.lacounty.gov/wp-content/uploads/2022/04/County-of-Los-Angeles-All-Hazards-Mitigation-Plan-APPROVED-05-2020.pdf</a></p>	✓
Initiative No. 28 — Continue to maintain good standing under the NFIP by implementing programs that meet or exceed the minimum NFIP requirements. Such programs include enforcing an adopted flood damage prevention ordinance, participating in floodplain mapping updates, and providing public assistance and information on floodplain requirements and impacts.			
Yes	High	The County of Los Angeles continues to maintain and strive to identify activities that meet or exceed NFIP requirements and to help maintain and improve the County's CRS class rating for the unincorporated areas.	✓

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Action Taken?	Priority	Status	Completion Status (✓, O, X)
Initiative No. 29 — Consider the best available data and science to determine probable impacts on all forms of flooding from global climate change when making program enhancements or updates to the County’s Floodplain Management Program.			
Yes	High	<p>Los Angeles County Public Works partnered with the United States Department of the Interior Bureau of Reclamation to prepare a study of the Los Angeles Basin in cooperation with local water agencies and nongovernmental organizations to explore long-term water conservation opportunities and flood risk management impacts from climate change within the Los Angeles Basin.</p> <p>The Los Angeles Basin Study looked at the period from 2010 to 2095 and used state-of-the-art climate change and hydrologic modeling to develop projections of future water supply and demands in the region. The study analyzed the major components of the water conservation and flood protection system such as dams, spreading grounds, and major channel outlets. The hydrologic modeling can be used to estimate future flood events and establish trends that could result from projected climate change. The performance of the flood control infrastructure can also be analyzed using the hydrology modeling results from the study and help determine the probable impacts on flooding from climate change.</p> <p>The Los Angeles Basin Study is available online at:  <a href="https://www.usbr.gov/watersmart/bsp/docs/fy2017/LABasinStudySummaryReport.pdf">https://www.usbr.gov/watersmart/bsp/docs/fy2017/LABasinStudySummaryReport.pdf</a></p> <p>Public Works also partnered with the University of California Los Angeles to undertake a study to assist Public Works in evaluating the impact of climate change on Los Angeles County Flood Control District infrastructure. This two-year study began in May 2020 and concluded in August 2022. UCLA identified almost 50 global climate changes and selected some models to downscale to project on a regional scale different scenarios of temperature rise for mid-century and the end of the century. Public Works is awaiting the results of a similar climate study being conducted for the San Francisco Bay area by the Lawrence Livermore National Laboratory to gain a better understanding of how to act on the UCLA Study’s findings.</p>	O



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Action Taken?	Priority	Status	Completion Status (✓, O, X)
Initiative No. 30 — Identify flood-warning systems for properties where such systems can be beneficially employed.			
Yes	Medium	<p>The County of Los Angeles has implemented an emergency mass notification system that is used to contact County residents and businesses via recorded phone messages, text messages, or e-mail messages in case of emergency. The system, called ALERT LA County, is used by the County’s Emergency Operations Center to notify residents and businesses of emergencies or critical situations and provide information regarding necessary actions, such as evacuations. The system also utilizes the telephone companies’ 911 database and can contact land-line telephone numbers, whether listed or unlisted. If the call is picked up by an answering machine, the system will leave a recorded message. If the number called is busy or does not answer, the system will redial the number in an attempt to deliver the message. The system is also TTY/TDD compatible.</p> <p>In addition, the NOAA (National Weather Service) sends out mass notifications to impacted communities via Wireless Emergency Alerts (WEA). WEA are emergency messages sent by authorized government authorities through participating mobile carriers. Government partners include local and State public safety agencies, FEMA, the FCC, the Department of Homeland Security, and the National Weather Service. No app or sign-up is required, and alerts are sent automatically to WEA-capable phones during emergencies.</p>	✓
Initiative No. 31 — Consider the development of a comprehensive flood warning and response plan for the unincorporated County that would become a functional annex to the Operational Area Emergency Response Plan and meet the Community Rating System Activity 610 requirements.			
Yes	High	Public Works will consider the development of a comprehensive flood warning and response plan for the unincorporated County that would become a functional annex to the Operational Area Emergency Response Plan.	X
Initiative No. 32 — Continue to enforce the County’s development regulations to prevent increases of the flood hazard on adjacent properties.			
Yes	High	The County of Los Angeles continues to regulate development in FEMA-designated Special Flood Hazard Areas and Board-adopted County Floodplains in unincorporated areas.	✓

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Action Taken?	Priority	Status	Completion Status (✓, O, X)
Initiative No. 33 — Conduct an evaluation of FEMA-designated flood zones and revise/update them to reflect current conditions.			
Yes	High	The County of Los Angeles works with FEMA to update the Flood Insurance Rate Maps (FIRMs). The FEMA-initiated updates of the FIRMs and Flood Insurance Studies, which were done in cooperation with affected cities and the County of Los Angeles, were completed in 2021. Public Works continues to review Letters of Map Change submittals for projects that may revise/update FEMA designated flood zones in unincorporated areas. Currently a Letter of Map Revision (LOMR) is in review with FEMA for part of the Kagel Canyon area. Los Angeles County Public Works has a Flood Zone Determination Website, which is also mobile-friendly, where developers and stakeholders can access flood hazard information for properties in unincorporated Los Angeles County and incorporated areas as well. This website and interactive maps are updated periodically with updated flood zone boundary information from FEMA to reflect LOMRs that FEMA issues and provide accurate flood zone information.	✓
Initiative No. 34 — Continue to maintain and update the Hazus-MH model constructed to support the development of the FMP, to make flood risk information available to property owners.			
Yes	High	The County of Los Angeles continues to update the data used in the Hazus-MH model such as property information and topography.	O
Initiative No. 35 — Continue County coordination with other agencies and stakeholders on issues of flood control.			
Yes	Medium	The County of Los Angeles continues to partner and explore partnership opportunities with other agencies and stakeholders regarding flood control issues. Annually, Public Works conducts the All-Hazard Orientation meeting (formerly known as the Storm Orientation meeting) at the beginning of every storm season. Speakers from the National Weather Service, Office of Emergency Management, and Stormwater Engineering Division present to prepare Public Works for the upcoming storm season.	O
Initiative No. 36 — Continue to identify and assess drainage needs.			
Yes	High	Los Angeles County Public Works' Stormwater Maintenance Division monitors and inspects channels, storm drains, and flood retention basins owned by the Los Angeles County Flood Control District. In addition, Public Works' Land Development Division and Building and Safety Division enforce drainage building code requirements for new construction and alteration projects.	✓

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Action Taken?	Priority	Status	Completion Status (✓, O, X)
Initiative No. 37 — Once FEMA establishes its Building Resilient Infrastructure and Communities (BRIC) program, consider updating this plan accordingly to meet the BRIC program guidelines.			
Yes	Medium	Since the BRIC program has been established, the County of Los Angeles continues to look for opportunities that identify mitigation actions and implement projects that reduce risk posed by natural hazards.	O

**Recommendations for Changes or Enhancements:** Based on the review of this report by the Floodplain Management Plan Steering Committee, the following recommendations will be noted for future updates or revisions to the plan:

- No recommendations for changes or enhancements during this reporting period

## PROGRAM FOR PUBLIC INFORMATION IMPLEMENTATION

**Summary Overview of Implementation:** The annual performance period for the County of Los Angeles' program for public information is from June 15 to June 14 of each year. In the 2022-23 reporting period, all 26 identified outreach projects (100 percent) were implemented. All projects have resulted in progress toward desired outcomes.

**The Program for Public Information Committee:** The Program for Public Information Committee, made up of stakeholders within the planning area, reviewed and approved this progress report at its annual meeting held on May 16, 2023. It is expected that turnover will occur in Program for Public Information Committee membership from year to year. For this reporting period, the committee membership is as indicated in Table 3.

<b>TABLE 3. PROGRAM FOR PUBLIC INFORMATION COMMITTEE (JUNE 15, 2022 – JUNE 14, 2023)</b>	
Name	Jurisdiction/Agency
Patricia Wood	CRS Coordinator, Los Angeles County Public Works
Ciara Barnett	Community Government Relations Group, Los Angeles County Public Works
Kari Eskridge	Community Government Relations Group, Los Angeles County Public Works
Debbie Sharpton	Environmental Restoration Group
Erica Frausto-Aguado	American Red Cross, Los Angeles Region
Shannon Ggem	Malibou Lake Mountain Club

**Review of the Outreach Projects:** Program for Public Information Implementation Status reviews the identified outreach projects, reporting on the following items:

- The target audiences, the messages, and the desired outcomes.
- The projects in the PPI are used to convey the messages.
- Which projects were implemented.
- Why some projects were not implemented.
- What progress was made toward the desired outcomes.
- What should be changed.

## PROGRAM FOR PUBLIC INFORMATION IMPLEMENTATION STATUS

### TOPIC 1: KNOW YOUR FLOOD HAZARD

#### 1. MESSAGE: KNOW YOUR FLOOD ZONE

([www.dpw.lacounty.gov/wmd/floodzone/index.cfm](http://www.dpw.lacounty.gov/wmd/floodzone/index.cfm))

##### Target Audiences:

- Residents, property owners, and businesses in the regulated floodplains
- Renters in flood-prone areas
- Critical facility operators in the regulated floodplains
- Real estate agents, lenders, and insurance agents

##### Desired Outcomes:

- Increase in hits to Flood Zone Determination website

##### Progress Toward Outcomes:

- Los Angeles County Flood Zone Determination webpage hits:
  - June 15, 2021, to June 14, 2022: 13,701
  - June 15, 2022, to June 14, 2023: 24,780
  - June 15, 2023, to June 14, 2024: 2,275
- We created a mobile-friendly version of the Flood Zone Determination website.

#### a. Project: Mailing of outreach booklet "Are You Prepared for a Flood?" to target audiences

Assignment: Los Angeles County Public Works (Public Works)

Schedule: Annually, prior to rainy season (October)

Stakeholder Delivery (Element STK)<sup>1</sup>?: No

Implemented: Yes

Enhancement to project:

- The "Are You Prepared for a Flood?" booklet was updated in 2021.
- The "Are You Prepared for a Flood?" booklet was translated to Spanish in 2022. A QR code to access the Spanish version has been included in the English language booklet. The Spanish booklet is also available on the Public Works' NFIP website.

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<sup>1</sup> Element STK is a FEMA Community Rating System (CRS) point multiplier that credits project messages delivered or endorsed by stakeholders that are not part of the local government (i.e., Los Angeles County). Stakeholders are the individuals, agencies, and jurisdictions that have a vested interest in the recommendations of this plan, including:

- Community representatives
- Environmental advocacy groups
- Local non-County disaster preparedness and response agencies
- Residents, owners, and operators of businesses within the floodplain
- Repetitive loss area representatives.
  - A Gap in Maps analysis was performed to determine homes in close proximity to streams, but where a FEMA or County floodplain has not been mapped; appropriate homes were added to the distribution list for the booklet.
  - Public Works provided our web address in the mailers to allow target audiences to download the outreach materials.

- The “Are You Prepared for a Flood?” booklet was translated to Chinese and a QR code was generated for future use.
- To increase the outreach to target audiences, the booklets have been distributed to the following public libraries: Castaic, Lancaster, Malibu, Quartz Hill, Topanga. Additionally, the booklet is distributed to Public Works’ Building and Safety Division’s plan check counters at its headquarters and field offices.
- Distribution of booklets to County Department of Parks and Recreation was implemented and left in their Alhambra Office.
- Consider providing the booklet in other languages if the demographics demonstrate the need.

**b. Project: Social media post for “Are You Prepared for a Flood?” booklet**

Assignment: Public Works

Schedule: Annually (October)

Element STK?: No

Implemented: Yes

Enhancement to project:

- Continue implementation of program
- Provided Spanish version of booklet on social media
- Consider providing Chinese version of booklet on social media
- Consider keeping track of “X (formerly Twitter)” impressions
- Provide booklet to realtor associations (i.e. Board of Realtors) by December 2024

**c. Project: Annual notice of map information services to local realtors/lenders/insurance agents pursuant to the publicity requirements of CRS Activity 320**

Assignment: Public Works

Schedule: Annually (October)

Element STK?: Yes

Implemented: Yes

Enhancement to project:

- Mailed annual notice to 90 agents in the unincorporated communities and adjacent areas. Consider expanding distribution list to additional agents.

**2. MESSAGE: YOU ARE IN A REPETITIVE LOSS AREA**

Target Audiences:

- Residents, property owners, and businesses in mapped repetitive loss areas (RLAs)

Desired Outcomes:

- Increase in inquiries to Public Works regarding flood hazards from repetitive loss property (RLP) owners
- Property owners implementing temporary or permanent flood mitigation projects
- Increased demand for sandbags during the storm season

Progress Toward Outcomes:

- Public Works to query its log of calls in the future to determine how many are from repetitive loss areas.
- Conduct field visits to all RLPs within a 5-year period to document any flood mitigation measures.

- In addition, field visits are conducted for all properties in RLAs.
- Public Works previously resubmitted the appropriate forms for 4 RLPs and 3 burned structures from the Woolsey Fire for FEMA’s consideration to potentially classify the properties as being mitigated.
- Public Works provides sandbags to the Los Angeles County Fire Department for distribution to residents at over 160 local County Fire Stations. Demand for sandbags varies from year to year. Public Works always maintains in its warehouse a stockpile of over 750,000 sandbags for the Fire Department.

Year	Sandbags distributed to Fire Department
2021-2022	42,462
2022-2023	172,000
2023-2024	392,000

**a. Project: Annual mailing to Repetitive Loss Area Properties**

Assignment: Public Works

Schedule: Annually (October)

Element STK?: No

Implemented: Yes

Enhancement to project:

- In 2023, outreach materials were mailed to all properties within an RLA. If applicable, future mailings can be tailored to other areas that may be subject to potential flood hazards, such as areas within or below watersheds that have been recently burned.

**TOPIC 2: INSURE YOUR PROPERTY FOR YOUR FLOOD HAZARD**

**1. MESSAGE: YOU NEED FLOOD INSURANCE**

Target Audiences:

- Residents, property owners, and businesses in the 100-year (1 percent annual chance) floodplain
- Homeowners/building owners who do not have a mortgage or federally backed mortgage

Desired Outcomes:

- Increase in flood insurance policy holders for insurable structures in the 100-year (1 percent annual chance) floodplain

Progress Toward Outcomes:

- Total Policy Holders in Unincorporated LA County:
  - Date, 2021 945
  - Date, 2022 814
  - Date, 2023 721
  - Date, 2024 870

There can be several factors affecting the increase or decrease over time of policy holders in the unincorporated areas. The fluctuation in the numbers of policies may be the result of several factors including: annexations of unincorporated areas into adjacent cities; revisions in the Flood Insurance Rate Maps and Letter of Map Revisions that are the result of drainage improvements or corrections to the floodplain boundaries; and policies being dropped due to Risk Rating 2.0

replacement of Preferred Rate Policies with standard policies or replacement of NFIP policies with private company policies.

- Public Works created a webpage for Risk Rating 2.0, FEMA's new methodology for calculating NFIP flood insurance premiums. The new webpage explains the changes in flood insurance premiums and provides answers to frequently asked questions. The site is continuously updated as new information on Risk Rating 2.0 is released from FEMA. <https://dpw.lacounty.gov/wmd/NFIP/Risk-Rating/>

**a. Project: Mailing to property owners in the flood zones and repetitive loss areas**

Assignment: Public Works

Schedule: Annually (October)

Element STK?: No

Implemented: Yes

Enhancement to project:

- Continue mailing outreach material to properties in the RLAs and properties in Special Flood Hazard Areas (SFHAs, which may include RLPs). In 2023, outreach materials were mailed to all RLA properties, and 1,679 flood preparedness booklets were mailed to properties in SFHAs, County Floodways, which include areas that may be outside SFHAs, and Gaps in the Maps. Mailing lists are updated accordingly to account for: annexations of unincorporated areas into adjacent cities; and changes in the Flood Insurance Rate Maps (FIRMs) that are the result of Letters of Map Revision (LOMRs), Physical Map Revisions (PMRs), and the Gaps in the Maps Analysis.
- Consider using "X (formerly Twitter)" to disseminate this message
- Consider keeping track of "X (formerly Twitter)" impressions

**2. MESSAGE: RENTERS CAN BUY FLOOD INSURANCE**

Target Audiences:

- Renters in flood prone areas

Desired Outcomes:

- Increase in flood insurance purchase by renters in the 100-year (1 percent annual chance) floodplain

Progress Toward Outcomes:

- Specific statistics on flood insurance policies for content-only coverage for renters is not yet available.

**a. Project: Mailing to renters in the flood zone**

Assignment: Public Works

Schedule: Annually (October)

Element STK?: No

Implemented: Yes

Enhancement to project:

- To reach renters, the "Are You Prepared for a Flood?" booklets are mailed to the site address and the building owner's mailing address. The booklet was updated in 2024 and specifies renters may also purchase flood insurance.
- The "Are You Prepared for a Flood?" booklet was translated to Spanish in 2022. A QR code for the Spanish translation is provided on the back of the English booklet. The Spanish translation is also available on the Public Works' NFIP website.



- Provided Spanish version of FEMA’s publications related to flooding on Public Works’ NFIP website.
- The “Are You Prepared for a Flood?” booklet was translated to Chinese in May 2024. A QR code for the Chinese translation was created for future use. The Chinese translation is also available on the Public Works’ NFIP website.
- Consider providing the booklet in other languages if the demographics demonstrate the need.
- Consider using a QR code flyer distribution for communities.

### TOPIC 3: PROTECT PEOPLE FROM THE FLOOD HAZARD

#### 1. MESSAGE: AVOID SWIFT WATER

##### Target Audiences:

- People/children who hike or bike through channels and streams
- People who are camping/residing in channels and streams

##### Desired Outcomes:

- Decrease in swift water rescues
- Decrease in observed camping/residing in the channels and streams

##### Progress Toward Outcomes:

- The County of Los Angeles Fire Department performs swift water rescues where the need arises.
- Public Works has multiple YouTube videos regarding the flood hazard:
  - o Stormwater safety:  
<https://www.youtube.com/watch?v=5jFl6Z-Ld4w>
  - o Swift Water:  
<https://www.youtube.com/watch?v=EcOpX7TGY84>  
[https://www.youtube.com/watch?v=2\\_oeiOP\\_o\\_k](https://www.youtube.com/watch?v=2_oeiOP_o_k)
  - o Storm season evacuation:  
[https://www.youtube.com/watch?v=gqrr1\\_o4WYA](https://www.youtube.com/watch?v=gqrr1_o4WYA)  
<https://www.youtube.com/watch?v=07BHy2Acq-Q>
- Public Works tweets messages urging residents to stay away from rivers and channels during storms.
- Public Works posts messages and videos on Facebook reminding people to steer clear of swift-moving water during storms
- Public Works has created a new GIS system, Homeless Encampment Automated Reporting System (HEARS), to document encampments in the Flood Control District. HEARS allows Stormwater Maintenance crews to submit the information electronically in the field using a smart mobile device. The request is sent to Stormwater Maintenance Division engineers for approval. Upon approval, an email is automatically sent to the Chief Executive Office – Homeless Initiative Office (CEO – HI). CEO-HI routes the request to the Los Angeles Homeless Services Authority (LAHSA) for their public outreach and coordination with the Los Angeles Sheriff’s Department Homeless Outreach Service Team (HOST). LAHSA’s outreach engages the encampment inhabitants and makes them aware of available programs that offer housing, family reconnection, shelters, food, and attaining identification. Following LAHSA’s outreach, Stormwater Maintenance posts a notice that informs the encampment inhabitants that they are trespassing and gives them a 2-week timeframe to move to safety. If necessary, the County Sheriff may assist in the relocation of the encampment inhabitants.

- The counts for People Experiencing Homelessness (PEH) near riverbeds in the County of Los Angeles are below:

Riverbed Name	Count of PEH		
	2021-22	2022-23	2023-24
Alhambra Wash	3	5	3
Aliso Canyon Creek	2	8	15
Amargosa Creek	2	2	22
Anaverde Creek	0	0	1
Arroyo Calabasas	0	0	1
Arroyo Seco	42	45	29
Arroyo Sequit	0	1	0
Avocado Creek	2	1	1
Ballona Creek	1	27	30
Bell Creek	1	4	0
Big Dalton Wash	6	7	10
Big Tujunga Creek	0	3	3
Big Tujunga Wash	3	0	0
Browns Canyon Wash	34	87	31
Bull Creek	0	24	11
Cabellero Creek	8	12	16
Castaic Creek	0	0	1
Centinela Creek Channel	3	9	23
Central Branch Tujunga Wash	48	86	83
Charter Oak Creek	3	0	0
Chatsworth Creek	0	1	0
Chino Creek	3	4	0
Compton Creek	4	31	23
Coyote Creek	6	7	11
Dominguez Channel	57	27	77
East Branch Arcadia Wash	0	0	1
East Canyon Channel	5	1	1
Eaton Wash	14	19	7
Eller Slough	2	0	0
Encino Creek	0	4	0
Governor Edmund G Brown CA Aqueduct	0	2	0
Grand Canal	8	31	5
La Canada Verde Creek	26	27	66
La Mirada Creek	1	2	5
Las Virgenes Creek	0	1	0
Leffingwell Creek	9	1	4
Lemon Creek	0	1	1
Limekiln Canyon Wash	22	19	13
Little Dalton Wash	7	2	7
Little Tujunga Creek	1	0	3
Live Oak Wash	1	2	0
Los Angeles Aqueduct	0	0	2
Los Angeles River	125	282	185
Malibu Creek	0	2	1
Marshall Creek	1	0	0
Meadow Upper Feeder	1	7	3
Medea Creek	14	0	0
Mescal Creek	1	0	0
Newhall Creek	1	0	9
Pacoima Wash	18	60	64
Puente Creek	9	13	4

Rio Hondo	49	54	58
Rubio Wash	1	5	11
San Antonio Creek Channel	0	1	0
San Dimas Wash	18	25	7
San Gabriel River	80	73	95
San Jose Creek Diversion Channel	9	16	16
Santa Anita Wash	12	29	27
Santa Clara River	0	2	7
Santa Susana Pass Wash	0	6	1
Sawpit Wash	1	4	9
Sepulveda Channel	0	0	2
Thompson Wash	12	20	15
Tujunga Wash	11	30	32
Verdugo Wash	1	2	4
Walnut Creek	4	5	5
Wilbur Wash	0	1	0
Total	692	1140	1061

Source: US Census, La County Assessor (2020), LAHSA HMIS

**a. Project: YouTube videos – Public Service Announcements (PSAs) for swift water warning**

Assignment: Public Works

Schedule: Year-round on YouTube

Element STK?: No

Implemented: Yes

Enhancement to project:

- Consider posting YouTube videos on social media

**b. Project: Social media reminder**

Assignment: Public Works

Schedule: Prior to and during rainy season, and during a flood response

Element STK?: No

Implemented: Yes

Enhancement to project:

- Continue implementation of the program
- Continued use of Facebook to reach residents and business owners of County of Los Angeles
- Continue Facebook and Instagram reminders to reach younger audience
- Consider keeping track of “X (formerly Twitter)” impressions

**2. MESSAGE: TURN AROUND DON'T DROWN**

Target Audiences:

- Motorists

Desired Outcomes:

- Decrease in swift water rescues

Progress Toward Outcomes:

- Public Works actively uses social media to send messages urging residents to avoid driving or walking through flood waters during storms.

**a. Project: Social media reminder**

Assignment: Public Works

Schedule: Prior to and during rainy season, and during a flood response

Element STK?: No

Implemented: Yes

Enhancement to project:

- Continue implementation of the program
- Continue to provide tweets in Spanish
- Consider keeping track of “X (formerly Twitter)” impressions

### 3. **MESSAGE: BE AWARE OF HAZARDOUS ROAD CONDITIONS**

Target Audiences:

- Motorists

Desired Outcomes:

- Increase in hits to Los Angeles County’s road closure website
- Decrease in swift water rescues

Progress Toward Outcomes:

- Public Works actively uses social media to send messages informing residents to be aware of hazardous road conditions.
- Los Angeles County road closure website hits:

June 15, 2021, to June 14, 2022:	253,244
June 15, 2022, to June 14, 2023:	162,120
June 15, 2023, to June 14, 2024:	55,457

#### **a. Project: Social media reminder**

Assignment: Public Works

Schedule: Prior to and during rainy season, and during a flood response

Element STK?: No

Implemented: Yes

Enhancement to project:

- Continue implementation of program
- Consider keeping track of “X (formerly Twitter)” impressions

### 4. **MESSAGE: DO NOT CAMP OR RESIDE IN WATERWAYS**

Target Audiences:

- People who are camping/residing in channels and streams

Desired Outcomes:

- Decrease in swift water rescues
- Decrease in observed camping/residing in the channels and streams

Progress Toward Outcomes:

- Public Works Stormwater Maintenance Division coordinates with LAHSA for potential areas where people reside in channels and streams

#### **a. Project: Targeted outreach prior to flood season or major storms**

Assignment: Los Angeles Homeless Services Authority (LAHSA), Public Works

Schedule: Year Round

Element STK?: No

Implemented: Yes

Enhancement to project:

- Continue implementation of program

## TOPIC 4: PROTECT YOUR PROPERTY FROM THE FLOOD HAZARD

### 1. MESSAGE: NEED ADVICE FOR PROTECTING YOUR PROPERTY FROM FLOOD HAZARDS? PLEASE CALL US OR VISIT OUR WEBSITE

#### Target Audiences:

- Residents, property owners, and businesses in the regulated floodplains and in repetitive loss areas
- Environmental consultants/building contractors or others involved in the permitting process
- Gaps in the maps identified properties
- Property owners near recently burned areas

#### Desired Outcomes:

- Increase in requests for advice/assistance

#### Progress Toward Outcomes:

- Storm Season Preparation YouTube video:  
<https://www.youtube.com/watch?v=GELAxD7hzIU>
- Public Works provided Post-Burn Engineering Advice to residents in post burn areas on how to mitigate debris flow impacts on their properties:

Year	No. Advice
2020	128
2021	0
2022	0
2023	30

There was the Agua Fire in Soledad Canyon in proximity to homes in Los Angeles County from June 15, 2023, to June 14, 2024.

Public Works maintains over 750,000 sandbags at its warehouse for emergencies, and during storm season provides Los Angeles County Fire Stations with an adequate supply for the public. There was no advice given in 2021 and 2022 because there were no fire events in that year that warranted the need to provide advice.

- During Repetitive Loss Property site visits, observed mitigation measures were documented. Public Works previously resubmitted the appropriate forms for 4 RLPs and 3 burned structures from the Woolsey Fire for FEMA's consideration to potentially classify the properties as being mitigated.

#### **a. Project: YouTube video storm season preparation**

Assignment: Public Works

Schedule: Available year-round online

Element STK?: No

Implemented: Yes

Enhancement to project:

- Continue implementation of program

#### **b. Project: "X (formerly Twitter)" reminder**

Assignment: Public Works

Schedule: Prior to and during rainy season

Element STK?: No

Implemented: Yes

Enhancement to project:

- Continue implementation of program
- Consider keeping track of “X (formerly Twitter)” impressions

**c. Project: Distribute mailer to affected properties**

Assignment: Public Works

Schedule: Prior to and during rainy season and as needed

Element STK?: No

Implemented: Yes

Enhancement to project:

- Continue implementation of the program. Currently, owners and residents of properties within a SFHA, County floodway, or other known flood-prone areas receive a “Are you Prepared for a Flood?” booklet. In addition, owners and residents of properties within RLAs receive a letter that contains extensive resources with information on ways to mitigate flood hazard on their properties.
- Distributed English and Spanish “Are you Prepared for a Flood?” and Homeowner’s Guide booklets to the Office of Emergency Management to support the City of Los Angeles Local Assistance Center for constituents impacted by the February 2024 storms.
- Consider distributing booklets during the County’s Household Hazardous Waste Collection events.

**d. Project: Facebook message**

Assignment: Public Works

Schedule: Prior to and during rainy season

Element STK?: No

Implemented: Yes

Enhancement to project:

- Continue implementation of program

**2. MESSAGE: SANDBAGS AVAILABLE**

Target Audiences:

- Residents, property owners, and businesses in the recently burned areas, regulated floodplains, and in repetitive loss areas

Desired Outcomes:

- Increase in demand for sandbags during the storm season

Progress Toward Outcomes:

- Public Works actively uses social media to send messages informing residents on fire department locations for free sandbag distribution
- Consider providing information on how to properly dispose of sandbags

**a. Project: Social Media Message**

Assignment: Public Works

Schedule: Prior to rainy season, and during a flood response

Element STK?: No

Implemented: Yes

Enhancement to project:

- Continue implementation of program
- Consider keeping track of “X (formerly Twitter)” impressions

## TOPIC 5: BUILD RESPONSIBLY

### 1. **MESSAGE: A LITTLE INVESTMENT NOW COULD SAVE YOU MONEY LATER**

#### Target Audiences:

- Environmental consultants/building contractors or others involved in the permitting process.
- Homeowners applying for permits

#### Desired Outcomes:

- Increase protection of structures from flood hazards

#### Progress Toward Outcomes:

- Public Works’ current Building and Safety and Land Development plan checking procedures enforce flood protection requirements.

#### **a. Project: Promote on social media (“X (formerly Twitter)”) and NFIP website**

Assignment: Public Works

Schedule: Year-round; revisions to website by October

Element STK?: No

Implemented: Yes

Enhancement to project:

- Continue to provide at Public Works’ Building and Safety permit counters booklets and FEMA flyers about proper construction
- Provide recommendations during the building process to construct above minimum flood protection requirements
- Consider providing this information to organizations (e.g. local chapter of the American Institute of Architects) that would benefit from it during the planning phase

## TOPIC 6: PROTECT NATURAL FLOODPLAIN FUNCTIONS

### 1. **MESSAGE: NO DUMPING**

#### Target Audiences:

- Countywide
- Areas where there are significant instances of illegal dumping into storm drains, channels, and flood control basins

#### Desired Outcomes:

- A reduction of illegal dumping instances

#### Progress Toward Outcomes:

- Public Works added a link to the County’s CleanLA webpage on Public Works’ National Flood Insurance Program’s Resources and Links webpage to report illegal dumping.
- Public Works’ YouTube channel has public service announcements featuring athletes from the Los Angeles Dodgers and Clippers to encourage residents to “Keep it classy, not trashy”.
  - o PSA – Illegal Dumping with Dodgers Adrian Gonzalez:

<https://youtu.be/YabWhMjklkw>

- PSA – Illegal Dumping with Clippers Lamond Murray

<https://youtu.be/DRO77wc0ric>

- Number of illicit discharges to which the Los Angeles Flood Control District responded:
  - Fiscal Year 2020 - 2021: 121
  - Fiscal Year 2021 - 2022: 232
  - Fiscal Year 2022 – 2023: 195
- Number illegal dumping reported to Public Works countywide:
  - Fiscal Year 2021 - 2022: 16,757
  - Fiscal Year 2022 - 2023: 10,895
  - Fiscal Year 2023 – 2024: 18,124
- In an effort to educate the public and promote behavioral change to prevent stormwater pollution, Public Works implements the Public Information and Participation Program that addresses water quality priorities and stormwater management program priorities. In addition, Public Works continues water education through its Water for LA ([www.WaterForLA.com](http://www.WaterForLA.com)) platform, to provide trusted information to the residents of Los Angeles County and inspire them to reevaluate their relationship with water. As part of the Water for LA countywide water educational program, Public Works conducts social media and email outreach to residents and businesses across Los Angeles County and implements paid media outreach campaigns consisting of digital display, video, radio, print and out-of-home ads. Stormwater pollution prevention topics included instructions for properly disposing of household hazardous waste as well as tips on how to reduce pollutants such as pesticides, litter, and other common household chemicals. Other ongoing outreach efforts include:
  - School education outreach programs, Environmental Defenders (K-5<sup>th</sup> grade) and Generation Earth (6-12<sup>th</sup> grade)
  - Used Motor Oil and Oil Filter Campaign
  - Household Hazardous and Electronic Waste Program
  - Smart Gardening Program

**a. Project: Drains to Ocean signage/No Dumping signage**

Assignment: Public Works

Schedule: Signs posted year-round at LACFCD facilities

Element STK?: No

Implemented: Yes

Enhancement to project:

- Continue implementation of the program

**b. Project: YouTube Video**

Assignment: Public Works

Schedule: Available year-round online

Element STK?: No

Implemented: Yes

Enhancement to project:

- Continue implementation of the program



## TOPIC 7: GENERAL PREPAREDNESS

### 1. MESSAGE: SIGN UP FOR ALERT LA

#### Target Audiences:

- Countywide
- Residents, property owners, and businesses in the regulated floodplains
- School Districts

#### Desired Outcomes:

- Increase the number of residents who register their mobile device numbers for Alert LA

#### Progress Toward Outcomes:

- The number of enrollments for Alert LA County:
  - June 15, 2021, to June 14, 2022: 3,222
  - June 15, 2022, to June 14, 2023: 5,224
  - June 15, 2023, to June 14, 2024: 47,955
- The County of Los Angeles' website for storm preparation promotes residents to sign up for Alert LA and provides resources for preparation such as weather forecast, videos, guides, notifications, and tweets.  
<http://www.lacounty.gov/larain>

#### **a. Project: Promote Alert LA on County Website**

Assignment: Public Works, Los Angeles County Sheriff's Department

Schedule: Available online year round

Element STK?: No

Implemented: Yes

Enhancement to project:

- Continue implementation of the program

#### **b. Project: Provide Alert LA County Booklet**

Assignment: OEM

Schedule: Available online year round

Element STK?: No

Implemented: Yes

Enhancement to project:

- Included language promoting Alert LA in the flood preparedness booklet
- Continue implementation of the program

#### **c. Project: Promote on social media**

Assignment: Public Works

Schedule: Annually

Element STK?: No

Implemented: Yes

Enhancement to project:

- Continue implementation of the program

2. **MESSAGE: DEVELOP A FAMILY DISASTER PLAN**

Target Audiences:

- Countywide
- Residents, property owners, and businesses in the regulated floodplains
- School Districts

Desired Outcomes:

- Increase preparedness by residents

Progress Toward Outcomes:

- In addition to County OEM's website, the County of Los Angeles' website for emergency preparation provides residents with resources, tips, and facts to equip and alert them on how to best respond to emergencies and recover from disasters.  
<http://www.lacounty.gov/emergency>  
<https://ready.lacounty.gov/>

**a. Project: Promote on social media ("X (formerly Twitter)") and website**

Assignment: Public Works

Schedule: Quarterly, during rainy season and during a flood response

Element STK?: No

Implemented: Yes

Enhancement to project:

- Continue implementation of the program
- Consider keeping track of "X (formerly Twitter)" impressions

3. **MESSAGE: KNOW YOUR RISK**

Target Audiences:

- Countywide
- Residents, property owners, and businesses in the regulated floodplains
- School Districts

Desired Outcomes:

- Increase visits to the Flood Zone Determination Website

Progress Towards Outcomes:

- Los Angeles County Flood Zone Determination webpage hits:  
June 15, 2021, to June 14, 2022: 13,701  
June 15, 2022, to June 14, 2023: 24,780  
June 15, 2023, to June 14, 2024: 2,275

**a. Project: Mailer to all properties with structures in the floodplain**

Assignment: Public Works

Schedule: Annual Mailing (October)

Element STK?: No

Implemented: Yes

Enhancement to project:

- Continue implementation of the program

**b. Project: Promote on social media ("X (formerly Twitter)")**

Assignment: Public Works

Schedule: Annually

Element STK?: No

Implemented: Yes

Enhancement to project:

- Continue implementation of the program
- Consider keeping track of “X (formerly Twitter)” impressions

**4. MESSAGE: BE AWARE, #LARAIN IS COMING**

Target Audiences:

- Countywide
- Residents, property owners, and businesses in the regulated floodplains
- School Districts

Desired Outcomes:

- Increase awareness of incoming storms

Progress Towards Outcomes:

- The County of Los Angeles tweets forecasts such as flood advisory, flash flood warnings and flood-related information from the National Weather Service Los Angeles.

**a. Project: “X (formerly Twitter)” reminder**

Assignment: Public Works, National Weather Service Los Angeles

Schedule: During rainy season and during a flood response

Element STK?: No

Implemented: Yes

Enhancement to project:

- Continue implementation of the program
- Consider keeping track of “X (formerly Twitter)” impressions

***Recommendations for Changes or Enhancements:*** Based on the review of this report by the Program for Public Information Committee, the following changes will be incorporated during the next performance period:

- Consider keeping track of “X (formerly Twitter)” impressions, which is a tally of the number times a tweet has been seen
- Consider using QR codes on flyers to communities to help disseminate flood zone information
- Consider utilizing Nextdoor for targeted social media messaging

**PUBLIC REVIEW NOTICE**

*The contents of this report are considered to be public knowledge and have been prepared for total public disclosure. Copies of the report have been provided to the County Los Angeles Chief Executive Office and to local media outlets and the report is posted on the Floodplain Management Plan website. Any questions or comments regarding the contents of this report should be directed to:*

*Los Angeles County Public Works  
Stormwater Engineering Division  
(626) 458-6131*