Hazard Mitigation Grant Program

Watershed Planning Program Notice of Proposal Form

Subapplicant	City of Hallandale Beach		
Subapplication Title	City of Hallandale Beach Storm Water Master Plan		
Subapplication Type	Planning – Stormwater Master Plan		
Total Project Cost	$400,000	**Federal Share**	$300,000
If a subapplication for this planning activity has been submitted under a previous grant cycle, please list the program, date, and disaster (if applicable)			
N/A			

1. Contact Information

Application Prepared by:					
Name	Jairus Brown				
Title	Senior Grants Accounting Analyst				
Agency/Organization	City of Hallandale Beach				
Primary Phone	954-457-3051	**Type**	☑ Work ☐ Mobile		
Secondary Phone		**Type**	☐ Work ☐ Mobile		
Email	jabrown@cohb.org				
Address line 1	400 South Federal Highway				
Address line 2					
City	Hallandale Beach	**State**	FL	**Zip**	33009
Authorized Applicant Agent – individual authorized to sign certifications ***(proof of authorization required)***					
Name	Dr. Jeremy Earle				
Title	City Manager				
Agency/Organization	City of Hallandale Beach				
Primary Phone	954-457-1314	**Type**	☑ Work ☐ Mobile		
Secondary Phone		**Type**	☐ Work ☐ Mobile		
Email	Jearle@cohb.org				
Address line 1	400 South Federal Highway				

Address line 2					
City	Hallandale Beach	**State**	FL	**Zip**	33009
Signature	Jeremy Earle (Feb 28, 2026 11:59:54 EST)	**Date**	02/28/26		
Point of Contact (POC) – individual to be contacted for additional information					
Name	Kamari Harris				
Title	Sustainability and Resiliency Officer				
Agency/Organization	City of Hallandale Beach				
Primary Phone	954-457-1489x4607	**Type**	☑ Work ☐ Mobile		
Secondary Phone		**Type**	☐ Work ☐ Mobile		
Email	kharris@cohb.org				
Address line 1	630 NW 2nd Street				
Address line 2					
City	Hallandale Beach	**State**	FL	**Zip**	33009

2. Subapplicant Information

Subapplicant			
Type of Subapplicant	☐ State Government ☐ Indian Tribal Government ☐ Private Non-Profit	☑ Local Government ☐ Special Governmental District ☐ Other (please specify)	
City/Town/Village	City		
County	Broward County		
FIPS Code	12-28452	**Unique Entity ID**	HPV9W3WHGR23
State Legislative Districts	37	**Federal Tax ID Number**	596000333

3. Local Mitigation Strategy (LMS) Compliance

Local Mitigation Strategy Information					
Does your jurisdiction have a current FEMA Approved Mitigation Plan?	☑ Yes ☐ No				
Attached is a letter of endorsement for this project from the county's LMS Coordinator.	☑ Yes ☐ No				
Plan Approval Date	7/31/2023	**Jurisdiction Adoption Date**	10/18/2023	**Plan Expiration Date**	7/31/2028

4. Project Description

Description					
Project Description	☐ Watershed Master Plan ☑ Stormwater Master Plan Comprehensive Stormwater Master Plan				
List the total number of persons that will be protected by the proposed project below					
Total population covered by plan	41217	# of flood insurance policies covered by plan	17798	# of flood insurance policies in SFHA	13,130

1. Describe the existing problems:

The City of Hallandale Beach is experiencing increasing flood risk due to aging stormwater infrastructure, inadequate drainage capacity, and the impacts of higher-intensity rainfall and sea-level rise. Currently, the City relies on a 2021 Stormwater Master Plan that has been found to contain extensive deficiencies in both hydrologic and hydraulic modeling, as well as significant gaps in data verification. According to the previously prepared scope, modeling was developed using limited field verification, incomplete stormwater inventory data, and assumptions that did not accurately reflect system conditions. These deficiencies have resulted in inaccurate floodplain delineations, inaccurate model outputs, and unreliable identification of flooding hotspots.

As a result of these inaccuracies, multiple capital improvement projects impacted because the underlying modeling does not match existing conditions. City staff have identified locations where the existing model either underestimates or fails to identify chronic flooding, and where pipe inverts, elevations, and drainage system configurations were not correctly represented. These inconsistencies have created operational and design challenges, increased risk to public infrastructure, and limited the City's ability to evaluate flood mitigation alternatives.

Flooding during severe rainfall events continues to affect residential neighborhoods, critical roadways, and commercial corridors, causing roadway closures, damage to private property, and disruptions to emergency access. These impacts are expected to worsen due to rising groundwater tables and tidal influence. The existing 2021 model does not adequately incorporate these future conditions stressors or current sea level rise scenarios, further limiting its usefulness for long-term mitigation planning.

The City completed a Vulnerability Assessment in 2025 under the FDEP Resilient Florida Program, which identified significant exposure to tidal flooding, storm surge, and rainfall-driven flooding. Without an updated and technically reliable Stormwater Master Plan, the City cannot effectively prioritize mitigation projects, conduct FEMA-compliant benefit cost analyses, or strategically invest capital resources to reduce flood risk.

A new SWMP is required to correct the deficiencies of the prior plan, incorporate updated data and vulnerability information, and develop accurate hydrologic and hydraulic models. This effort will enable the City to identify feasible mitigation measures, properly sequence capital projects, improve resilience to flooding, and support future applications for state and federal mitigation funding.

Description

2. WMP Scope of Work

FDEM will coordinate with Sub-recipients to produce a Watershed Master Plan (WMP) for credit under the Community Rating System (CRS). A pilot project was previously completed that consisted of research, the creation of a framework and guidance documents that ensure a consistent statewide approach to WMP development.

Sub-recipients under the Watershed Planning Initiative will use the guidance materials to produce a Watershed Master Plan for credit under CRS. Guidance materials can be found at: https://www.floridadisaster.org/dem/mitigation/watershed-planning-initiative. The Sub-Recipient will finalize the process by submitting their WMP to ISO/CRS for review and providing the Division with a signed letter from their applicable county's Local Mitigation Strategy (LMS) Chairperson attesting that the WMP will be adopted in the Sub-Recipient's next LMS update.

Tasks necessary for completion include:

Task 1 – Creation of preliminary scope of work, initial flood modeling & submission of draft WMP to CRS officials for approval. The flood modeling should consider evaluations of the watershed's runoff response from design storms under current and predicted future conditions and assessments of the impacts of sea level rise and climate change. Preliminary modeling should include 10-, 25- & 100- year storm events. This initial scope of work and WMP draft should include preliminary modeling of the 10-, 25- and 100-year storm events, an inventory of the ground characteristics and data availability, existing regulations and plans in place, a description of vulnerable areas or areas of interest, a list of potential solutions, and a brief description of future actions plans.

Task 2 – Submit final WMP & CRS submittal. After receiving feedback and approval on the sub-recipient's scope of work and flood modeling submission in Task 1 from FDEM, the sub-recipient will finalize the flood modeling process and complete their WMP. At a minimum, the modeling and WMP must include 10, 25 & 100 year storm events—or model sea level rise—to receive credit through CRS element 452.b. The sub-recipient will submit their documentation of their WMP submittal to CRS to FDEM as well as their final WMP to FDEM for approval.

Based on your project type selected (WMP or SWMP), please describe in detail below (or on a separate page attached to this proposal) how your community plans to complete the above tasks. Please provide any details related to staffing to complete the proposed project, if you will be hiring an outside agency/firm, and what resources you have at your disposal to accomplish the project:

Description

2. SWMP Scope of Work

FDEM will coordinate with Sub-recipients to produce a StormwaterMaster Plan (SWMP) to assist with local communities and their flood mitigation efforts. This project is preceded by the WMP Pilot Program, with Stormwater Master Plans being encompassed in the second round of funding under the HMGP Planning Grant.

Guidance materials produced in the WMP Pilot Program can be found at: https://www.floridadisaster.org/dem/mitigation/watershed-planning-initiative. The Sub-Recipient will finalize the process by submitting to the Division with a signed letter from their applicable county's Local Mitigation Strategy (LMS) Chairperson attesting that the Stormwater Master Plan will be adopted in the Sub-Recipient's next LMS update.

Tasks necessary to the completion of Stormwater Master Plans include: Task 1 – Create Preliminary Stormwater Master Plan

The Sub-Recipient shall create a preliminary Stormwater Master Plan, which is a narrative detailing an inventory of existing stormwater systems, the community's existing policies and regulations, identifying known problematic areas and areas with high flood risk, and proposes a series of recommendations for managing stormwater effectively. There must be enough detail in the preliminary SWMP to verify the required analysis has been completed.

Task 2 – Revise Draft SWMP and Submit Completed SWMP

After receiving feedback from the Division on the preliminary SWMP from Task 1 (Deliverable), the Sub-Recipient shall finalize the flood modeling process and submit their completed SWMP. At a minimum, the SWMP must meet the Minimum Criteria required for a creditable SWMP shown above. The Sub-Recipient shall update their SWMP, if revisions are necessary based on the Division's feedback, and submit the completed SWMP to the Division for review.

Based on your project type selected (WMP or SWMP), please describe in detail below (or on a separate page attached to this proposal) how your community plans to complete the above tasks. Please provide any details related to staffing to complete the proposed project, if you will be hiring an outside agency/firm, and what resources you have at your disposal to accomplish the project:

see attachment "Scope of Work"

Description

3. Describe any other on-going or proposed projects in the area that may impact, positively or negatively, the proposed HMGP Project:

Several ongoing and planned City projects may influence the Stormwater Master Plan, including the NE Section Drainage Infrastructure project now in early design, which will introduce new pump stations and modify drainage patterns, and the rehabilitation of the 72 inch Gulfstream stormwater main, which is 80 percent designed and will affect major conveyance capacity. The DPW Compound and Chaves Lake drainage improvements, both in advanced design, depend on the Chaves Lake environmental assessment and may establish new outfall options that must be reflected in basin level modeling. Citywide CDBG drainage upgrades on NW 7th Street and NW 5th Terrace are nearing close out and will require updates to the stormwater inventory, while the proposed Citywide Swales program may provide additional green infrastructure opportunities tied to localized flooding. Regionally, the I 95 stormwater station rehabilitation with FDOT and Pembroke Park may influence tailwater conditions, and the Broward RAIN program will install 10 real time flood monitoring sites across the City, providing data valuable for calibrating the updated models. Several roadway and multimodal projects, including Atlantic Shores Boulevard and NW 3rd Street complete streets, incorporate drainage changes and bioswale features that the SWMP should integrate. Multiple large utility projects, including force main and water main replacements on Layne Boulevard, NE 7th to NE 12th, NE 14th Avenue, and Dixie Highway, will alter subsurface conditions and right of way constraints that affect future drainage improvements. The City's completed 2025 Vulnerability Assessment provides updated sea level rise and exposure data that the SWMP will use to ensure consistency with long term resilience planning.

5. Community Information

Answer questions A through H for the community(ies) that is participating in the Watershed Planning Program.

Information can be provided using this proposal form, the attached CRS Points Spreadsheet (for questions g & h) or in a separate document clearly identifying the questions and answers.

a) Jurisdiction Name
b) Name of LMS Coordinator or Floodplain Coordinator/Manager
c) Is the community a participant in good standing with the National Flood Insurance Program (NFIP)?
d) The NFIP Community Identification Number (CID)
e) Does the community participate in the Community Rating System (NFIP CRS)?
f) What is the current CRS Class Rank?
g) What is the total # of CRS points accrued at the time of application?
h) What is the total # of CRS points you expect to receive from completing a WMP?

Jurisdiction Name (a)	LMS and/or Floodplain Coordinator (b)	NFIP Participant (c)	CID # (d)	CRS (e)	CRS Ranking (f)	CRS Total Accumulated Points (g)	Expected Points from WMP (h)
		☐ Y ☐ N ☐ NA		☐ Y ☐ N			

Project Location

1. ☐ Attach a copy of a city or county scale map (large enough to show the entire WMP area)
2. ☐ Attach a map outlining the total area being modelled for your WMP

Flood Insurance Rate Map (FIRM)	
1. ☑ Attach one (1) copy of the FIRM map, a copy of the panel information from the FIRM, and, if available, the Floodway Map. FIRM maps are required for this application. FIRMs are typically available from your local floodplain administrator who may be located in a planning, zoning, or engineering office. Maps can also be ordered from the Map Service Center at 1-800-358-9616. For more information about FIRMs, contact your local agencies or visit the FIRM site on the FEMA Web-page at https://msc.fema.gov/portal.	
2. Using the FIRM, determine the flood zone(s) of the project site (Check all zones in the project area). (See FIRM legend for flood zone explanations) (A Zone must be identified)	
☑ VE or V 1-30	☑ AE or A 1-30
☑ AO or AH	☐ A (no base flood elevation given)
☑ B or X (shaded)	☑ C or X (unshaded)
☐ Floodway	
☐ Coastal Barrier Resource Act (CBRA) Zone	

6. Schedule of Work

Using the outline below, estimate in monthly increments how much time will be estimated for each task to complete the Plan. When developing the schedule, please use timeframes from the date of subrecipient agreement execution. Add additional tasks as necessary on a separate sheet and attach to this proposal form.

Task(s)	Number of Months to Complete
Field Work and Data Collection	3
Initial Flood Modeling	3
Preliminary WMP	3
Revise WMP and Submit Completed WMP	2
Division Approval and Closeout	1
Total Months	12

Total Schedule	
Estimate the total duration of your proposed activities (do not exceed 24 months)	12
Proposed start date (MM/DD/YYYY)	10/01/2026
Proposed end date (MM/DD/YYYY)	10/01/2027

7. Budget

Cost estimates should be consistent with scope of work items and work schedule. Presented cost estimates in the budget should have sufficient source documentation or justification. Costs must be eligible under HMGP and conform to the requirements set forth in 2 CFR 200 E. Applicants must ensure that cost are reasonable, allowable, allocable, and necessary for the completion of a Watershed Master Plan consistent with the scope of work. Additional justifications related to the budget can be attached to your submitted proposal form.

Cost Item	Unit	Amount	Rate	Total Cost
Personnel				
Fringe Benefits				
Travel				
Equipment				
Supplies				
Contractual	1	1	400,000	400,000
Other				
			Total Project Cost	400000

8. Cost share

Maximum Federal Share for the project is 75 percent. Non-federal funding share is that portion of the total project costs provided by the non-federal entity in the form of in-kind contributions (professional services, labor, etc.) or cash match received from third parties or contributed by the entity. In-kind contributions must be provided and/or cash expended during the project period of performance to satisfy matching requirement. Please present the cost-share information for the proposed project below.

Federal and Non-Federal Cost Share Breakdown			
TOTAL PROJECT COSTS	$ 400,000		
Estimated Federal Share (max 75%)	$ 300,000	75%	%
Estimated Local Share: Cash	$ 100,000	25%	%
Estimated Local Share: In-Kind *	$		%
Estimated Local Share: Third-Party *	$		%
Date of local share funding availability	10/01/26		
***Provide narrative or description of in-kind or third-party match sources below:**			

Federal and Non-Federal Cost Share Breakdown
Provide any additional comments and/or reference to applicable attachments (optional)

Office of Emergency Management
201 NW 84th Avenue, • Plantation, Florida 33324 • 954-831-3900 • FAX 954-382-5805

February 26, 2026

26-008

Mrs. Laura Dhuwe
Chief, Bureau of Mitigation
Florida Division of Emergency Management
2555 Shumard Oak Blvd.
Tallahassee, FL 32399

RE: Watershed Planning Initiative Letter of Support and Acknowledgement

Dear Mrs. Dhuwe:

The Broward County Local Mitigation Strategy (LMS) Working Group acknowledges and supports City of Hallandale Beach's pursuit of FDEM's Watershed Planning Initiative to develop and implement a Watershed Master Plan. These efforts align with our locally adopted LMS Goals and Objectives and the State Hazard Mitigation Plan Goals and Objectives in accordance with 44 CFR 201.6.

Upon completion of City of Hallandale Beach's Watershed Master Plan, the LMS agrees to adopt this plan as an annex to Broward County's LMS.

We acknowledge that the LMS Working Group is not required to make any determinations related to funding for the Watershed Planning Initiative.

For further information or inquiry, please contact me at CRHALL@broward.org or office: (954) 831-3933.

Sincerely,

Craig Hall
LMS Chair
Assistant Director, Broward County Office of Emergency Management

cc: Carl Fowler, LMS Coordinator

Method and Major Tasks

The City will procure a qualified engineering consultant through CCNA to complete the SWMP (estimated cost: $400,000). The consultant will complete the following tasks:

1. Data Collection and System Characterization

- Verify existing stormwater infrastructure through field surveys, correcting inaccurate elevations, inverts, and drainage connectivity from the 2021 SWMP.
- Integrate data from the City's 2025 Resilient Florida Vulnerability Assessment.
- Compile regulatory drivers consistent with EPA's integrated planning framework, including Clean Water Act and NPDES requirements.

2. Hydrologic & Hydraulic Modeling

- Develop updated watershed models using current LiDAR, verified infrastructure data, and Broward County's future-conditions standards (including sea-level rise, groundwater rise, and updated 100-year flood elevations).
- Model multiple storm events and tidal boundary conditions to identify system constraints.

3. Green Infrastructure and Multi-Benefit Alternatives

In accordance with EPA guidance, the SWMP will include:

- Evaluation of green infrastructure (GI) strategies such as bioswales, permeable pavements, enhanced tree canopy, stormwater harvesting, and nature-based solutions.
- Identification of opportunities to incorporate GI into transportation projects, redevelopment sites, community corridors, and CIP drainage upgrades—consistent with EPA recommendations to integrate stormwater into broader infrastructure planning.

4. Future-Conditions Vulnerability Assessment

- Quantify flooding risks under anticipated sea-level rise, increased rainfall intensities, and rising groundwater—aligned with state and county resilience frameworks.
- Evaluate system performance under multiple climate scenarios.

5. Evaluation and Prioritization of Mitigation Alternatives

- Develop conceptual designs, feasibility assessments, and cost estimates.
- Rank alternatives using flood-reduction effectiveness, water quality benefits, GI suitability, and compatibility with Broward County resilience standards.
- Apply EPA's long-term planning principles to evaluate alternatives, measure performance, and select preferred options.

6. Stakeholder and Community Engagement

- Incorporate diverse stakeholder feedback following EPA's collaborative planning guidance to ensure equitable and community-supported outcomes.

7. Final SWMP and Implementation Framework

The completed SWMP will include:

- Updated H&H models and GIS datasets
- Prioritized mitigation projects with cost-benefit information
- Recommendations for green infrastructure and low-impact development
- Implementation timelines and funding pathways (FEMA, Resilient Florida, local CIP)
- Compliance alignment with Broward County, EPA Integrated Planning, and State resilience requirements

Expected Outcomes

The updated SWMP will:

- Correct inaccurate data and modeling issues from the 2021 study.
- Provide reliable, FEMA-compatible modeling for project development and BCA preparation.
- Support the integration of green infrastructure and nature-based solutions.
- Ensure consistency with Broward County's resilience standards and future-conditions flood maps.
- Enable data-driven prioritization of capital projects to reduce long-term flood risk.
- Strengthen the City's eligibility for HMGP, BRIC, FMA, and Resilient Florida grants.

RESOLUTION NO. 2023 - 123

A RESOLUTION OF THE MAYOR AND CITY COMMISSION OF THE CITY OF HALLANDALE BEACH, FLORIDA, ADOPTING THE 2022 UPDATED BROWARD COUNTY ENHANCED LOCAL MITIGATION STRATEGY (ELMS) PLAN AND PROVIDING AN EFFECTIVE DATE.

WHEREAS, a county and local municipality mitigation coordinated strategy, or plan, for emergency response and recovery, long and short-term planning, and economics relating to hazard mitigation, provides a mechanism to help reduce or eliminate exposure to hazard impacts; and

WHEREAS, the Broward County Enhanced Local Mitigation Strategy (ELMS) plan continues to evolve to meet or exceed federal and state requirements to increase its effectiveness; and

WHEREAS, effective July 31, 2023, the updated plan was approved by FEMA for a period of five (5) years to July 31, 2028 in accordance with Program Administration by States (PAS) guidance; and

WHEREAS, the ELMS plan has the on-going support of all Broward County municipalities, private sector, and nonprofit organizations, intended to be institutionalized at the local level through the local mitigation strategy review process the encourages entities to continue to identify and prioritize projects on a frequent basis and not just part of the annual review process; and

WHEREAS, eligibility is considered for mitigation grant programs administered by FEMA, namely, Hazard Mitigation Grant Program (HMGP); Flood Mitigation Assistance (FMA); and Building Resilient Infrastructure and Communities (BRIC); and

WHEREAS, Staff recommends that the Mayor and City Commission adopt the 2022 updated Broward County Enhanced Local Mitigation Strategy (ELMS) plan, and authorize the City Manager to execute relating documents.

NOW, THEREFORE, BE IT RESOLVED BY THE MAYOR AND THE CITY COMMISSION OF THE CITY OF HALLANDALE BEACH, FLORIDA:

SECTION 1. The foregoing "Whereas" clauses are incorporated herein.

SECTION 2. The Mayor and City Commission hereby adopt the 2022 updated Broward County Enhanced Local Mitigation Strategy (ELMS) plan, and authorize the City Manager to execute relating documents.

SECTION 3. Effective Date. This Resolution shall take effect immediately upon its passage and adoption.

APPROVED AND ADOPTED this 18th day of October, 2023.

JOY F. COOPER
MAYOR

SPONSORED BY: CITY ADMINISTRATION

ATTEST:

JENORGEN GUILLEN
CITY CLERK

APPROVED AS TO LEGAL SUFFICIENCY
AND FORM

JENNIFER MERINO
CITY ATTORNEY

FINAL VOTE ON ADOPTION

Mayor Cooper	Yes
Vice Mayor Lima-Taub	Yes
Commissioner Adams	Yes
Commissioner Butler	Absent
Commissioner Lazarow	Yes

74