



City of New Orleans Hazard Mitigation Planning

City of New Orleans
Water Management Working Group
October 22, 2020
3:30pm to 5pm

Greetings

Austin Feldbaum

Hazard Mitigation Office

City of New Orleans

hazardmitigation@nola.gov

Housekeeping Items

- Please keep your line muted
- Chat feature allows for questions at anytime
- City of New Orleans (Austin) and Civix (Ryan) will be presenting
- Civix (Amanda) will be hosting and managing the meeting

Introductions

Please give your name, organization, and area of focus

Agenda

- Meeting Goals and Objectives
- Overview of Hazard Mitigation Plan
- What We've Heard: Updated 2020 Mitigation Actions and Discussion
- Additional Feedback
- Next Steps

Meeting Goals and Objectives

- Provide status update Hazard Mitigation Plan and planning process
- Present updated 2020 Hazard Mitigation Actions
- Receive feedback on updated Actions
- Discuss any missing Hazard Mitigation Actions

Hazard Mitigation Plan

How is the Hazard Mitigation Plan Used?

- The plan is a requirement to access types of disaster assistance through FEMA's Hazard Mitigation Assistance Programs.
- The Hazard Mitigation Plan identifies mitigation measures that the City of New Orleans and its planning partners can put into place that may reduce the impact or severity of future hazard events.
- Informs floodplain management planning under the Community Rating System (CRS) to improve CRS score and increase flood insurance discounts under the National Flood Insurance Program (NFIP).
- Plan is maintained through quarterly meetings of the Hazard Mitigation Committee, which is a subset of the Local Emergency Planning Committee.

Mitigation Strategy

- Long-term plan to reduce potential losses identified in the risk assessment.
 - Goals
 - Mitigation Action Plan
 - Prioritized Mitigation Actions
 - Implementation Strategy

FEMA Mitigation Action Categories

- Prevention
- Property Protection
- Natural Resource Protection
- Emergency Services
- Structural Projects
- Public Education and Awareness

2020 Natural Hazards



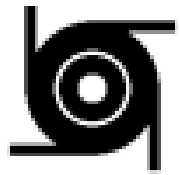
Flooding



Tornadoes



Extreme Heat



Tropical
Cyclones



Subsidence



Severe
Thunderstorm

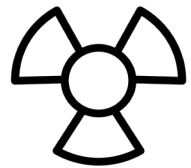


Coastal
Erosion



Winter Weather

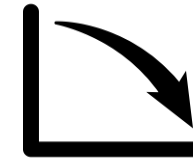
2020 Man-Made Hazards



Hazardous
Materials



Infrastructure
Failure



Economic Shock



Active Threats



Infectious
Disease
Outbreak

Hazard Mitigation Action Goals

- Goal 1: Reduce risk and vulnerability to the human environment including cultural resources, homeowners, renters, visitors, and transient populations.
- Goal 2: Reduce risk and vulnerability to the built environment including current and future structures; critical facilities; historic structures; and infrastructure, including communications infrastructure.
- Goal 3: Reduce risk and vulnerability to the natural environment including wetland restoration and recognition of New Orleans as a coastal city.

Hazard Mitigation Action Goals

- Goal 4: : Maximize the involvement of individuals, businesses, and groups in risk reduction measures through education/outreach on hazard mitigation appropriate to all groups, particularly vulnerable populations.
- Goal 5: To promote, implement, and sustain mitigation measures in Orleans Parish in order to reduce and manage risks to human life, the environment, and property.
- Goal 6: To protect Orleans Parish and the surrounding region from the effects of natural and manmade hazards, ensuring community continuity in the event of such hazards.

2020 Hazard Mitigation Actions

Action:



No.	Goal	Action Type	Action Item	Description	Hazards	Status	Lead Agency/Support Agencies that will Implement Action	Preliminary Costs (including ongoing maintenance costs) – to be refined as more data becomes Available	Funding Sources (Specify specific entity that could potentially fund this action)	Emergency Support Function	Time Frame for Implementing Action
1	Goal 5: To promote, implement, and sustain mitigation measures in Orleans Parish in order to reduce and manage risks to human life, the environment, and property.	Prevention	Create and Maintain Databases to aid in Flood Plain Management	Create EC database and FFE estimation tool to augment the RLAA findings and aid floodplain management planning. Train building officials to enter data from new ECs in order to maintain the database.	Floods	New	City of New Orleans (Safety and Permits, ITI)	City Staff Time	CNO General Fund	ESF 5	1-5 years

Action:



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3	Goal 5: To promote, implement, and sustain mitigation measures in Orleans Parish in order to reduce and manage risks to human life, the environment, and property.	Prevention	Stormwater Fee	Draft a citywide policy to levy and administer a stormwater fee to fund stormwater mitigation projects across the city.	Floods	New	ORS, NOHSEP, SWBNO	City Staff Time	CNO General Fund	ESF 5	1-2 years

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5	Goal 2: Reduce risk and vulnerability to the built environment including current and future structures; critical facilities; historic structures; and infrastructure, including communications infrastructure.	Prevention	Duncan Plaza Drainage Improvement	Address Storm Water Retention Needs with Improvements to the stormwater infrastructure in Duncan Plaza.	Floods	New	DPW, ORS, SWBNO, Downtown Development Authority, Safety and Permits	City Staff Time, Contractor Labor	CNO General Fund, State and Federal Grants	ESF 3	3-5 years

Action:



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6	Goal 2: Reduce risk and vulnerability to the built environment including current and future structures; critical facilities; historic structures; and infrastructure, including communications infrastructure.	Prevention	Audubon Golf Course Drainage Improvement	Address Storm Water Retention Needs with Improvements to the stormwater infrastructure in the Audubon Park Golf Course.	Floods	New	DPW, ORS, SWBNO, Safety and Permits, Audubon Institute	City Staff Time, Contractor Labor	Audubon Institute Funds, CNO General Fund, State and Federal Grants	ESF 3	3-5 years

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7	Goal 2: Reduce risk and vulnerability to the built environment including current and future structures; critical facilities; historic structures; and infrastructure, including communications infrastructure.	Prevention	Parks Master Plan - Drainage Project Scoping	Scope potential drainage projects for inclusion in the Parks Master Plan for implementation.	Floods	New	DPW, ORS, NORDC, SWBNO, Orleans Levee District, French Market Corporation	City Staff Time	CNO General Fund	ESF 3	3-5 years

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11	Goal 5: To promote, implement, and sustain mitigation measures in Orleans Parish in order to reduce and manage risks to human life, the environment, and property.	Prevention	Advocate for NFIP reforms	Advocate for National Flood Insurance Program (NFIP) reforms, including increasing the cap on Increased Cost of Compliance (ICC) coverage and freezing premiums for properties enrolled in Hazard Mitigation Assistance (HMA) programs.	Floods	New	NOHSEP, Mayors Office, City Council, Regional Planning Commission	City Staff Time	CNO General Fund	ESF 14	1-5 years

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12	Goal 5: To promote, implement, and sustain mitigation measures in Orleans Parish in order to reduce and manage risks to human life, the environment, and property.	Prevention	Explore incorporating repetitive damage provision in the City's floodplain ordinance	Including a Repetitive Loss provision would increase access to ICC funds for repetitive loss property owners. This would help fund residential mitigation projects.	Floods	New	NOHSEP, Safety and Permits, ORS	City Staff Time	CNO General Fund	ESF 5	1-3 years

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13	Goal 2: Reduce risk and vulnerability to the built environment including current and future structures; critical facilities; historic structures; and infrastructure, including communications infrastructure.	Property Protection	Elevation Certificate Data Management	Create a digital system for cataloguing, managing, and organizing Elevation Certificates acquired through local jurisdictions. Streamline the process for acquiring elevation permits in Orleans Parish.	Floods	New	City of New Orleans (Safety and Permits)	City Staff Time	CNO General Fund, State and Federal Grants	ESF 5	2-3 years

Action:



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16	Goal 3: Reduce risk and vulnerability to the natural environment including wetland restoration and recognition of New Orleans as a coastal city.	Natural Resource Protection	Sankofa Wetlands Enhancement	Develop a nature trail and wetland park on 1.5 acres of space in the Lower Ninth Ward to help with stormwater management and reduction of land subsidence. Utilize this project as an educational opportunity for youth in the area.	Coastal Land Loss	New	ORS, DPW	City Staff Time, Community Partner Time	Received an Environmental Justice Small Grant from the US EPA	ESF 11	1-2 years

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17	Goal 2: Reduce risk and vulnerability to the built environment including current and future structures; critical facilities; historic structures; and infrastructure, including communications infrastructure.	Structural Projects	N Claiborne GI	Implement recommended green infrastructure improvements along the North Claiborne corridor that could include tree planting, bioswales, stormwater parks, and pervious pavement on public and private property.	Floods, Extreme Heat	New	PPW, DPW, ORS, CID	City Staff Time, Contract Labor, Community Partner Time	CNO General Fund, State and Federal Grants, Philanthropic Grants	ESF 11 and 14	1-5 years

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18	Goal 2: Reduce risk and vulnerability to the built environment including current and future structures; critical facilities; historic structures; and infrastructure, including communications infrastructure.	Structural Projects	2043-47 Felicity GI	Implement recommended green infrastructure improvements along at 2043-47 Felicity Street.	Floods, Extreme Heat	New	ORS, DPW, PPW	City Staff Time, Contract Labor, Community Partner Time	CNO General Fund, State and Federal Grants, Philanthropic Grants	ESF 11 and 14	1-5 years

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19	Goal 2: Reduce risk and vulnerability to the built environment including current and future structures; critical facilities; historic structures; and infrastructure, including communications infrastructure.	Structural Projects	Lafitte Blue Way	Implement recommended green infrastructure improvements along the Lafitte Greenway.	Floods, Extreme Heat	New	ORS, DPW, PPW, Friends of the Lafitte Greenway, NORDC, SWBNO	City Staff Time, Contract Labor, Community Partner Time	CNO General Fund, State and Federal Grants, Philanthropic Grants	ESF 11 and 14	1-5 years

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21	Goal 4: Maximize the involvement of individuals, businesses, and groups in risk reduction measures through education/outreach on hazard mitigation appropriate to all groups, particularly vulnerable populations.	Public Education & Awareness	Complete a job study to institutionalize floodplain management training as a requirement for key positions.	Require building officials employed at the city to become Certified Floodplain Mangers (CFM) through ASFPM.	Floods, Tropical Cyclones	New	Civil Service, Safety and Permits	City Staff Time	CNO General Fund, State and Federal Grants	ESF 5	1-2 years

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23	Goal 4: Maximize the involvement of individuals, businesses, and groups in risk reduction measures through education/outreach on hazard mitigation appropriate to all groups, particularly vulnerable populations.	Public Education & Awareness	real estate disclosures, realtor education on flood risk	Work with the Louisiana Realtors Association to understand this issue from their point of view. Also hold public comment on this issue to fully inform the policy.	Floods	New	Orleans Parish Civil Clerk of Court	City Staff Time	CNO General Fund	ESF 6	1-3 years

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26	Goal 3: Reduce risk and vulnerability to the natural environment including wetland restoration and recognition of New Orleans as a coastal city.	Natural Resource Protection	NO East Land bridge Restoration: Advocate for NRDA funding	Advocate for NRDA Funding of the NOE Land Bridge Project at State and Federal Levels.	Flooding, Coastal Flooding, Tropical Cyclones	New	ORS, DPW, NOHSEP	City Staff Time	CNO General Fund, State and Federal Grants, Philanthropic Grants	ESF 11	3-5 years

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27	Goal 3: Reduce risk and vulnerability to the natural environment including wetland restoration and recognition of New Orleans as a coastal city.	Natural Resource Protection	MRGO Restoration:	Advocate for Funding of the continued restoration of the MRGO at State and Federal Levels.	Flooding, Coastal Flooding, Tropical Cyclones	New	ORS, NOHSEP, DPW	City Staff Time	CNO General Fund, State and Federal Grants, Philanthropic Grants	ESF 11	3-5 years

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28	Goal 3: Reduce risk and vulnerability to the natural environment including wetland restoration and recognition of New Orleans as a coastal city.	Natural Resource Protection	Bayou Bienvenue/Central Wetlands Restoration	Advocate for Funding of the restoration of Bayou Bienvenue at State and Federal Levels.	Flooding, Coastal Flooding, Tropical Cyclones	New	ORS	City Staff Time	CNO General Fund, State and Federal Grants, Philanthropic Grants	ESF 11	3-5 years

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32	Goal 5: To promote, implement, and sustain mitigation measures in Orleans Parish in order to reduce and manage risks to human life, the environment, and property.	Prevention	Financing for State and Local adaptation	Examine financing mechanism from other state and municipalities for funding adaptation.	Flooding, Coastal Flooding, Tropical Cyclones	New	NOHSEP, Economic Development, Finance Authority, Regional Planning Commission	City Staff Time	CNO General Fund, State and Federal Grants, Philanthropic Grants	ESF 11	3-5 years

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34	Goal 5: To promote, implement, and sustain mitigation measures in Orleans Parish in order to reduce and manage risks to human life, the environment, and property.	Prevention	HSDDRS authorized level of protection, MP goal of 500-year protection: assign City team	Utilize City Team to address 500-year flood protection.	Flooding, Coastal Flooding, Tropical Cyclones	New	ORS, Tulane Center for Environmental Law	City Staff Time	CNO General Fund, State and Federal Grants, Philanthropic Grants	ESF 3	1-3 years

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35	Goal 1: Reduce risk and vulnerability to the human environment including cultural resources, homeowners, renters, visitors, and transient populations.	Prevention	Address equity issues within the floodplain management program: provide support for local match requirement	Buildout and implement an equity strategy for the flood plain management program	Floods	New	NOHSEP	City Staff Time	CNO General Fund, State and Federal Grants, Philanthropic Grants	ESF 5	1-3 years

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36	Goal 5: To promote, implement, and sustain mitigation measures in Orleans Parish in order to reduce and manage risks to human life, the environment, and property.	Prevention	Conduct a study to evaluate the potential impacts of a catastrophic rain event	Conduct a study to better understand and evaluate the potential impacts of catastrophic rain events. Incorporate the outcomes of this study into recommendations for regional emergency preparedness planning.	Floods	New	NOHSEP, NOHD, DPW, SWBNO	City Staff Time, Contract Labor	CNO General Fund, State and Federal Grants, Philanthropic Grants	ESF 5	1-2 years

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37	Goal 5: To promote, implement, and sustain mitigation measures in Orleans Parish in order to reduce and manage risks to human life, the environment, and property.	Prevention	Investigate HSDDRS authorization to make case for nonstructural investment	Study how non-structural investments could be implemented from the HSDDRS authorization.	Floods	New	DPW, ORS, Tulane Center for Environmental Law, New Orleans City Council Governmental Affairs Committee	City Staff Time, Contract Labor	CNO General Fund, State and Federal Grants, Philanthropic Grants	ESF 5	1-2 years

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43	Goal 4: Maximize the involvement of individuals, businesses, and groups in risk reduction measures through education/outreach on hazard mitigation appropriate to all groups, particularly vulnerable populations.	Public Education & Awareness	Increase water literacy curriculum development, teacher training, goal of all students receiving 1 hour/year of qualified instruction	Work with Orleans Parish School Board and other charter schools in the Parish to develop a curriculum for water ecology, rain gardens, best management practices for storm water management (catch basin debris collection etc.)	Flooding, Subsidence	New	New Orleans Public School Board, DPW, ORS, Ripple Effect	City Staff Time	Philanthropy, School Board	ESF 15	3 to 5 years

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44	Goal 5: To promote, implement, and sustain mitigation measures in Orleans Parish in order to reduce and manage risks to human life, the environment, and property.	Prevention	Coordinate with USACE on recertification on HSDRRS at 100-year level of protection	Work with USACE to update the HSDRRS risk assessment (conducted in 2013) to obtain NFIP recertification (due in 2023) for 100-year flood protection from FEMA.	Flooding	New	SLFPA-E, SLFPA-W, ORS	City Staff Time	CNO General Fund	ESF 5 and 14	1 to 2 years

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46	Goal 4: Maximize the involvement of individuals, businesses, and groups in risk reduction measures through education/outreach on hazard mitigation appropriate to all groups, particularly vulnerable populations.	Public Education & Awareness	Louisiana Watershed Initiative - City engagement in Region 8 planning and policy	Continue coordination with Regional Planning Commission (RPC) and other parishes in Region 8 to implement the planning and policy development for water shed management in the region. Evaluation of flood risks and identification of projects in the region to minimize the flood risk in accordance with Louisiana Water Initiative launched by the State of Louisiana in 2018 based on the following principles: 1) Using scientific tools and data; 2) Enabling transparent, objective decision-making; 3) Maximizing the natural function of floodplains; 4) Establishing regional, watershed-based management of flood risk.	Flooding	New	CPC, RPC, ORS	City Staff Time	CNO General Fund	ESF 15	On-going (1 year)

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47	Goal 5: To promote, implement, and sustain mitigation measures in Orleans Parish in order to reduce and manage risks to human life, the environment, and property. Goal 2: Reduce risk and vulnerability to the built environment including current and future structures; critical facilities; historic structures; and infrastructure, including communications infrastructure.	Prevention	Cohesive approach to drainage improvements and other flood mitigation via GNO Urban Water Plan Part 2	The Urban Water Plan provides a roadmap for better management of flood and subsidence threats, while creating economic value and enhancing quality of life. This plan seeks to work in tandem and create multiple lines of defense with the region’s levee system and Louisiana’s 2012 Coastal Master Plan. (ref: GNO Urban Water Plan)	Flooding, Subsidence	New	NOHSEP, DPW, S&WBNO, NORA, GNO, Inc., Water Collaborative	City Staff Time	CNO General Fund, HMGP	ESF 5 and 14	1 to 3 years

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57	Goal 5: To promote, implement, and sustain mitigation measures in Orleans Parish in order to reduce and manage risks to human life, the environment, and property.	Prevention	Link cross-parish projects to LWI and DOTD priorities, including Claiborne Ave, N Broad St, and Tulane Ave	Coordinate Orleans Parish mitigation initiatives with neighboring parishes to meet regional goals, including those outlined by the Louisiana Watershed Initiative and the Louisiana Department of Transportation and Development. Cross-jurisdictional project examples focused on major thoroughfares include Claiborne Avenue, Broad Street, and Tulane Avenue.	Floods	New	Regional Planning Commission, NOHSEP, DPW	City Staff Time, Contract Labor	EPA, Health and Human Services, Port of New Orleans	ESF 10 and 8	1 year

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59	Goal 2: Reduce risk and vulnerability to the built environment including current and future structures; critical facilities; historic structures; and infrastructure, including communications infrastructure.	Property Protection	Integrate design solutions into community stormwater behaviors (e.g. designate parking areas in neutral grounds to avoid damage to trees and underground infrastructure	Implement citywide urban design standards intended to guide the community's response to stormwater management. Ensure the design guidelines and solutions consider the location of utilities and green infrastructure to prevent accidental and unintended damage to City facilities.	Floods, High Winds, Severe Thunderstorms, Winter Weather, Active Threats, Infrastructure Failure	New	ORS, DPW	City Staff Time, Contract Labor	Homeland Security, FEMA, Health and Human Services	ESF 2, 4, 6, 8, 10	2-5 years

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61	Goal 5: To promote, implement, and sustain mitigation measures in Orleans Parish in order to reduce and manage risks to human life, the environment, and property.	Prevention	Create a digital database of City infrastructure plans, surveys, and other spatial data to inform project design, stormwater modeling and other uses	Digitize hard copies of historic plans and create a standard operation procedure for new projects. Create a comprehensive citywide digital database of existing City infrastructure plans, utility plans, surveys, GIS, and other spatial data to inform project design, stormwater modeling, and other hazard mitigation initiatives.	Floods	New	DPW, ITI	City Staff Time	CNO General Fund, State and Federal Grants, Philanthropic Grants	ESF 1	1-3 years

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62	Goal 3: Reduce risk and vulnerability to the natural environment including wetland restoration and recognition of New Orleans as a coastal city.	Natural Resource Protection	Former Recovery 1 Landfill maintenance and environmental protection of Bayou Sauvage	Ensure the former Recovery 1 landfill site located adjacent to Bayou Sauvage, a National Wildlife Refuge, is properly and safely maintained over time to prevent contamination of Bayou Sauvage.	Infrastructure Failure	New	Sanitation and DPW	City Staff Time, Contract Labor	CNO General Fund, EPA Grants, other State and Federal Grants	ESF 3 and 11	1-2 years

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65	Goal 5: To promote, implement, and sustain mitigation measures in Orleans Parish in order to reduce and manage risks to human life, the environment, and property.	Prevention	Identify mitigation opportunities related to MS4 permit	Identify hazard mitigation provisions that can be included in the Municipal Separate Storm Sewer Systems (MS4) permitting process in order to promote a comprehensive and innovative urban water management approach throughout Orleans Parish. Focus on identifying actions that address both water quality and flooding.	Flooding	New	ORS, DPW	City Staff Time, Contract Labor	CNO General Fund, State and Federal Grants	ESF 3	1-2 years

Additional Feedback

- I. What Hazard Mitigation Actions have we missed?
- II. If you would like to provide additional feedback, please email hazardmitigation@nola.gov by October 31st
- III. For the 2015 Actions being carried forward for 2020 we will be reaching out to you for targeted feedback, thank you in advance for your help

Upcoming Events & Additional Resources

Upcoming Events

- Public Meeting #3 – November 2020
- Draft HMP out for Public Comment – December 2020

Additional Resources

- Hazard Mitigation Plan Website
 - <https://ready.nola.gov/hazard-mitigation/home/>
- Risk Reduction Survey
 - <https://ready.nola.gov/hazard-mitigation/survey/>
 - SURVEY to 504-608-3230
- Stay Connected
 - Email Updates: https://public.govdelivery.com/accounts/LANOLA/subscriber/new?topic_id=LANOLA_394
 - Text HAZARDPLAN to 468-311
- Submit Questions and Comments about the Hazard Mitigation Plan to, hazardmitigation@nola.gov



THANK YOU

City of New Orleans
Hazard Mitigation Planning, Water Management Working Group
October 22, 2020
3:30pm – 5pm