24 CFR PART 55: FLOODPLAIN MANAGEMENT & WETLANDS PROTECTION

MARCH 31, 2020

"FLOODS ARE ACTS OF GOD, BUT FLOOD LOSSES ARE LARGELY ACTS OF MAN."

-Gilbert White, Ph.D., Father of Floodplain Management

Dial in number: 1-929-205-6099 | Webinar ID: 730-675-117#

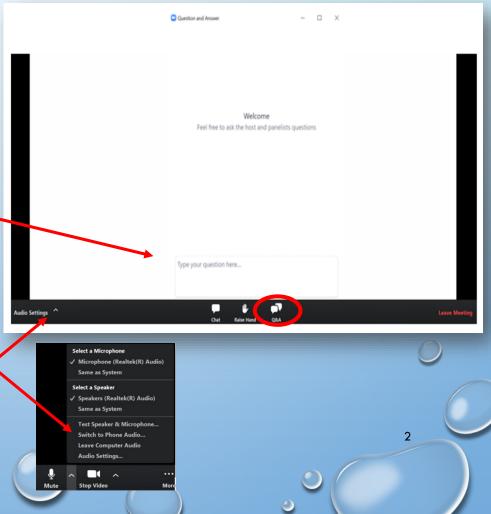
Introduction: Marcel Tchaou, Director, Environmental Planning Division, HUD Office of Environment & Energy

HUD OEE Presenter: Liz Zepeda, Senior Environmental Specialist

TA Provider: Enterprise Community Partners, Inc.

WELCOME

- WEBINAR INFORMATION
 - DIAL IN NUMBER: 1-929-205-6099 | WEBINAR ID: 730-675-117#
- Thank you for joining us!
- The webinar will begin promptly at 1 pm EST.
- All attendees will be muted.
- Please use the Q&A panel on the bottom of your screen to ask questions.
- For **best audio quality**, please listen to the webinar **via phone line** by using the dial-in number provided.
- To switch from computer audio to phone
 audio, follow these steps:



AGENDA

Introduction to Part 55



Floodplain terminology & overview

How to: Map the floodplain

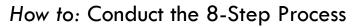


Wetlands terminology & overview

How to: Map the wetland



How to: Determine next steps



- Questions submitted through the Q&A panel will be answered after the webinar has ended
- Discuss questions about specific projects with the local Field or Regional Environmental Officer

HUD'S FLOODPLAIN AND WETLAND REGULATIONS

24 CFR Part 55 "Floodplain Management and Wetland Protection"

- Implements Executive Order 11988 for Floodplain Management
- Implements Executive Order 11990 for Protection of Wetlands
 - Updated in 2013 to include Protection of Wetlands



PURPOSE OF PART 55

To avoid the long- and short- term adverse impacts associated with:

- Occupancy and modification of floodplains
- Destruction or modification of wetlands

Avoid direct or indirect support for floodplain development or new construction in wetlands wherever there is a practicable alternative



FULL COST OF FLOODING



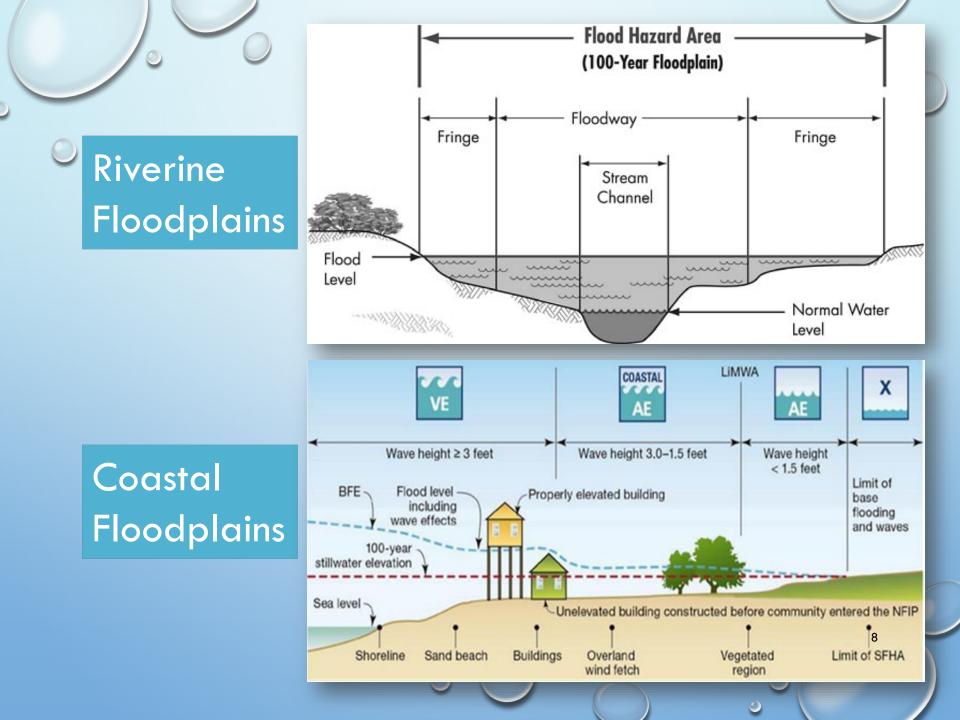
- Direct economic losses: buildings, contents
- Indirect losses: relocation costs, temporary housing, lost wages, health risks
- Low-income Americans are more likely than the middle class to live in floodplains
 - They are also less likely to recover from the loss of their home or job







Reminder: questions submitted through the Q&A panel will be answered after the webinar has ended



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AREA OF MINIMAL FLOOD H/ Zond X

F COLUMBIA 1001

Zone AE

VANU PERV

FLOODWAY

11000000000 cfl.9/27/201

IDENTIFYING FLOODPLAINS

- HUD relies on the Federal Emergency Management Agency (FEMA) to identify floodplains
- FEMA generates Flood Insurance Rate Maps (FIRMs) that map floodplains
- See 24 CFR 55.2 for HUD's definitions

100-YEAR FLOODPLAIN

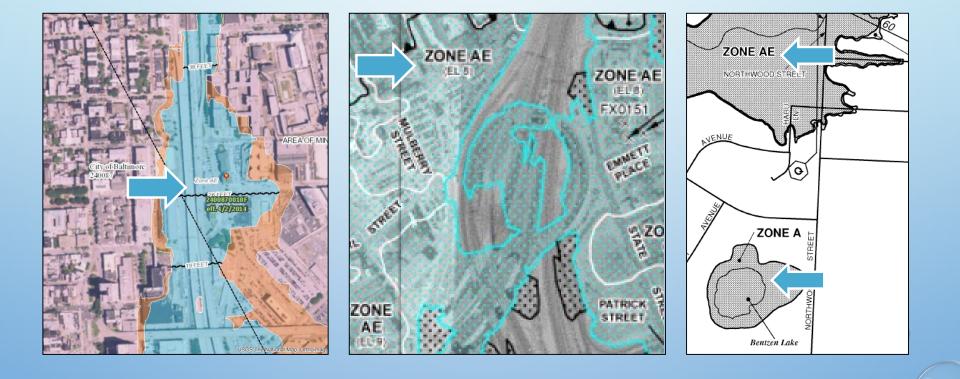
100-year floodplain = an area with at least a one percent chance of inundation from flood in any given year

- Also known as 1% annual chance flood
 - These areas have at least a 26% chance of flooding over the life of a 30year mortgage
- The minimum floodplain of concern for most HUD projects
- FEMA designates as Zone A, AE, A1-A30, AO, AH, or A99
- Current FEMA maps are not forward-looking: future effects of population growth and climate change are not taken into consideration

10

Actual risk may increase as maps age





500-YEAR FLOODPLAIN

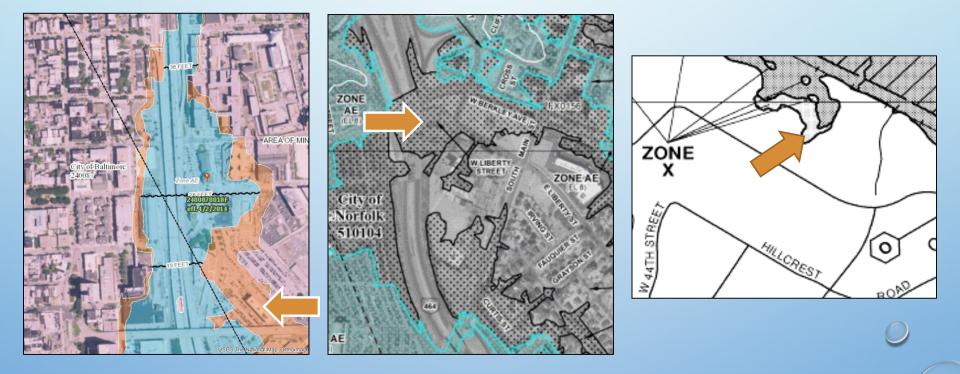
500-year floodplain = an area with at least a .2 percent chance of inundation from flood in any given year

- Also known as .2% annual chance flood
 - These areas have at least a 6% chance of flooding over the life of a 30year mortgage (if maps perform accurately)
- The minimum floodplain of concern for "critical actions"
- FEMA designates as Zone B or X (shaded)





500-YEAR FLOODPLAINS





Floodway = the portion of the floodplain which is effective in carrying flow, where flood hazards are generally greatest, and where water depths and velocities are the highest

- FEMA designates as Zone AE hatched
- No HUD assistance may be approved for use in a floodway, except in very limited circumstances









COASTAL HIGH HAZARD AREAS

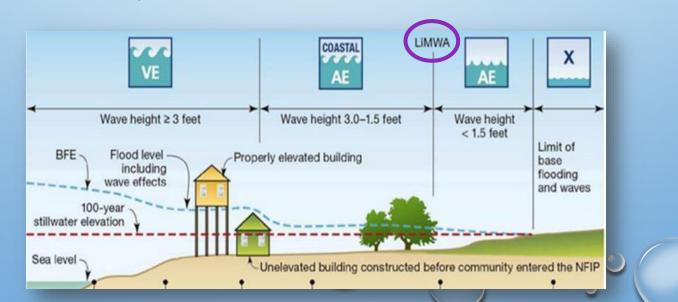
Coastal High Hazard Area = the area subject to high velocity waters, including – but not limited to – hurricane wave wash and tsunamis

- FEMA designates as Zone V
- Also known as "V Zones"
- No HUD assistance may be used for new construction or critical actions in Coastal High Hazard Areas



LIMIT OF MODERATE WAVE ACTION

- Limit of Moderate Wave Action (LiMWA): A line that has been added to recent FIRMs in coastal areas to give more information on flood risks
 - The line indicates areas that are outside of the V Zone but which may be affected by breaking waves higher than 1.5 feet
- Part 55 treats areas within the LiMWA as A Zones/100-Year Floodplain



17

• However, HUD/REs are encouraged to treat these areas the same as a V Zone

COASTAL HIGH HAZARD AREAS



SUNNY DAY FLOODING

- High tide flooding & nuisance flooding: flooding caused by high tides or regular rain unrelated to a strong storm
- Regular impacts include flooded roads and parking lots, disruptions to local businesses and transportation, deteriorating infrastructure, and saltwater spilled to farmlands
- Part 55 does not have any requirements related specifically to these types of floods



CRITICAL ACTIONS



Critical action (§ 55.2(b)(3)) - any activity for which even a slight chance of flooding would be too great, because such flooding might result in loss of life, injury to persons, or damage to property

Critical actions include projects that:

- Produce, use or store highly volatile, flammable, explosive, toxic or waterreactive materials
- Provide essential and irreplaceable records or utility/emergency services
 - e.g. utility lines, fire and police stations, roadways providing sole egress
- Are likely to contain occupants who may not be sufficiently mobile to avoid loss of life or injury during flood or storm events
 - e.g. hospitals, nursing homes
 - Housing for independent living for the elderly is <u>not</u> considered a critical action

FUNCTIONALLY DEPENDENT USE

Functionally dependent use $(\S55.2(b)(6))$ - a land use that must necessarily be conducted in close proximity to water

- Dams, marinas, port facilities, water-front parks, and many types of bridges
- Floodplain function restoration activities



SUBSTANTIAL IMPROVEMENT





22

Substantial Improvement

(§ 55.2(b)(10))

OR

Repairs/rehab/reconstruction where the cost of improvements ≥ 50% of market value of structure either:

- Before improvements started, or
- Before damage occurred (if structure has been damaged)

Repairs/rehab/reconstruction that results in > 20% increase in dwelling units or customers/ employees on site

NOT SUBSTANTIAL IMPROVEMENT



Substantial improvement does *not* include:

- Improvements done entirely to comply with state/local health or safety code that are solely necessary to assure safe living conditions
- Alterations to structures listed on the national register of historical places or on a state inventory of historic places

OVERVIEW OF PART 55 FLOODPLAIN REQUIREMENTS



Reminder: questions submitted through the Q&A panel will be answered after the webinar has ended

PART 55 HIGHLIGHTS

- Prohibits nearly all HUD assistance in floodways and most construction in coastal high hazard areas
- Requires an 8-step decisionmaking process for:
 - Most projects in a 100-year floodplain
 - Critical actions in the 100- or 500-year floodplain
 - Functionally dependent uses in a floodway or coastal high hazard area
- Provisions to modify or skip the 8-step process for some activities

24 CFR 55.21



§55.21 Notification of Floodplain Hazards

 Any current or prospective tenants and private parties participating in the transaction must be informed of the hazards before the transaction is executed

26

 HUD/RE is responsible for providing notice

HUD ASSISTANCE IN 100-YEAR FLOODPLAIN

All actions are allowed in the 100-year floodplain if 8-Step Process is completed and no practicable alternatives are found



HUD ASSISTANCE IN 500-YEAR FLOODPLAIN

- Non-critical actions are allowed in the 500-year floodplain without the 8step process
- Critical actions are allowed in the 500-year floodplain if:
 - 8-step process is completed; and
 - New construction is designed and built at or above the 100year floodplain (§55.20(e)(3)); and
 - Mitigation includes special provisions in §55.20(e)(3)



HUD ASSISTANCE IN FLOODWAY

HUD assistance is prohibited in a floodway for all projects except:

- Functionally dependent uses (8-Step Process required)
- Floodplain function restoration activities
- Projects exempt from part 55 under 55.12(c)

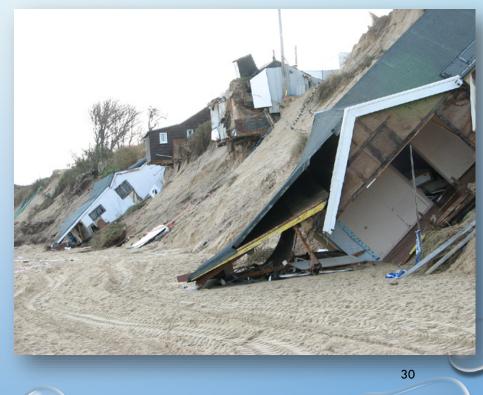


HUD ASSISTANCE IN COASTAL HIGH HAZARD AREA

Critical actions are prohibited

Non-critical actions allowed if the project is:

- Existing structure or reconstruction
 following damage from a disaster, and
- 8-step process is completed, and
- Project is designed for location in a coastal high hazard area
 - See 55.2(c)(3) for construction standards



APPLICABILITY – §55.11(C)

	Type of proposed action			
Type of proposed action (new reviewable action or an amendment) ¹	Floodways	Coastal high hazard areas	Wetlands or 100-year floodplain outside coastal high hazard area and floodways	Nonwetlands area outside of the 100-year and within the 500-year floodplain
Critical Actions as defined in §55.12(b)(2)	Critical actions not allowed.	Critical actions not allowed.	Allowed if the proposed critical action is processed under §55.20. ²	Allowed if the proposed critical action is processed under §55.20. ²
Noncritical actions not excluded under §55.12(b) or (c)	Allowed only if the proposed non-critical action is a functionally dependent use and processed under §55.20. ²	Allowed only if the proposed noncritical action is processed under §55.20 ² and is (1) a functionally dependent use, (2) existing construction (including improvements), or (3) reconstruction following destruction caused by a disaster. If the action is not a functionally dependent use, the action must be designed for location in a Coastal High Hazard Area under §55.1(c)(3)	Allowed if proposed noncritical action is processed under §55.20. ²	Any noncritical action is allowed without processing under this part.

HOW TO: MAP THE FLOODPLAIN



Reminder: questions submitted through the Q&A panel will be answered after the webinar has ended

MAPPING THE FLOODPLAIN

Flood Insurance Rate Map (FIRM) : official map used to determine flood insurance requirements and rates

- Flood Insurance Study (FIS): background analysis and more precise elevation information
- Letters of Map Revision (LOMR): official revision to the effective FIRM

If FEMA has provided interim flood hazard data (e.g. advisory base flood elevations, preliminary maps, or pending maps), Part 55 requires the use of the map with the highest standards

• See 55.2(b)(1) (the definition of coastal high hazard area) for best available information requirements

33

Make sure to check for latest maps!

UNMAPPED AREAS

If project area is **unmapped** by FEMA, utilize "best available information"

- FEMA community status book <u>https://msc.fema.gov/</u>
- U.S. Corps of Engineers
- Community flood administrators
- U.S. Geological Survey maps
- Soils maps (e.g., alluvial soils) USDA natural resources
- Conservation service
- State departments of water resources

- County public works
- Local flood control or levee districts
- Contract survey or study by licensed consulting engineer
- Supplement above with aerial photos, topographic maps, site visit
- Preliminary FIRMs must be used except where it can be demonstrated that they are insufficiently detailed

FLOODPLAIN DESIGNATIONS



The flood map for the selected area is number 3604970378F, effective on 09/05/2007 (?)





Changes to this FIRM Revisions (0) Amendments (16) Revalidations (1)

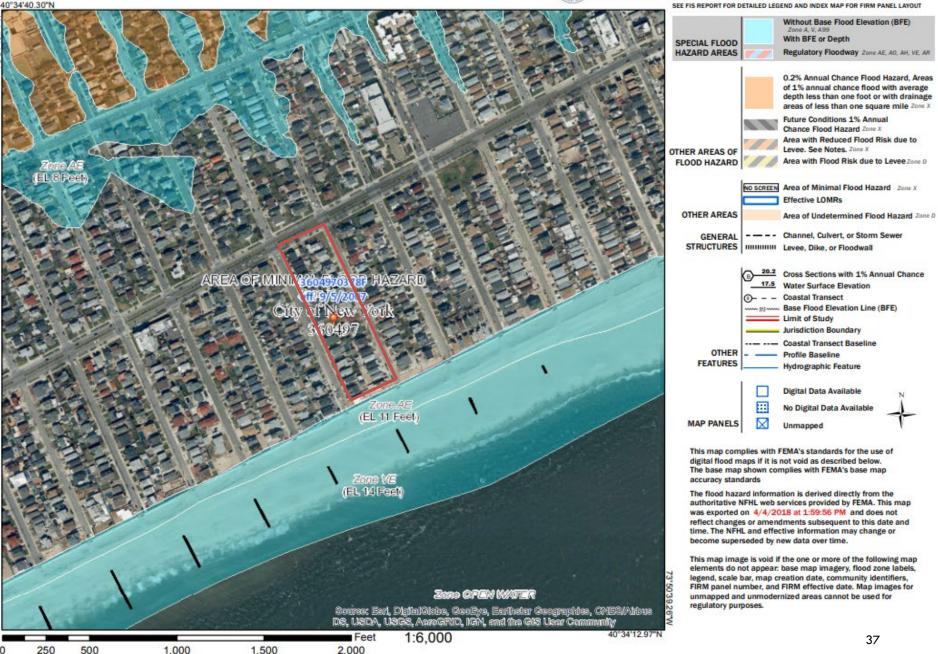
You can choose a new flood map or move the location pin by selecting a different location on the locator map below or by entering a new location in the search field above. NOTE: Please be sure to enable popups for this site.



National Flood Hazard Layer FIRMette



Legend



The flood map for the selected area is number 3604970378F, effective on 09/05/2007 (?)



You can choose a new flood map or move the location pin by selecting a different location on the locator map below or by entering a new location in the search field above. NOTE: Please be sure to enable popups for this site.



Search Results for NEW YORK, CITY OF

Click subscribe to receive email notifications when products are updated.

Please Note: Searching All Products by county displays all products for all communities within the county. You can refine your search results by specifying your specific jurisdiction location using the drop-down menus above.

🕹 DL ALL

- 闫 Effective Products (562) 😯
- 📂 Preliminary Products (122) 😯
 - Preliminary FIRM Panels (120)

Please note: Searches often result in many map files listed under a given section. You can determine the Product ID for the individual map panel needed by looking at the Map Index file. The index map files have "IND" within the Product ID and appear at the start of the list. These index files show an overview of a jurisdiction and how it is subdivided into map panels with the Product ID for each panel shown.

Show 100 • entries

Showing 1 to 100 of 120 entries				Previ	ous	1	2	Next	
Product ID	¢	Issue Date	¢	Size	¢	Dow	nload		
360497IND0B		12/05/2013		1 MB		- DL			
3604970016G		12/05/2013		2 MB		⇔ DL			
3604970018G		12/05/2013		4 MB		⇔ DL			
3604970019G		12/05/2013		4 MB		₽ DL			
3604970036G		12/05/2013		1 MB		⇔ DL			
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3604970069G		12/05/2013		3 MB		⇔ DL			
3604970077G		12/05/2013		2 MB		4DI			



MAP REPOSITORIES (Maps available for reference only, not for distribution.)

NEW YORK, CITY OF: New York City Department of City Planning Waterfront Division 22 Reads Street New York, New York 10007

BRONX COUNTY: New York City Department of Buildings, Bronx Borough Office 1932 Arthur Avenue, Sth Floor Bronx, New York 19457

KINGS COUNTY: New York City Department of Buildings, Brooklyn Borough Office 210 Jonalemon Street, Bhr Floor Brooklyn, New York 11201

NEW YORK COUNTY: New York City Department of Buildings, Manhattan Borough Office 200 Binadway, 3rd Floor New York, New York 10007

OUEENS COUNTY: New York City Department of Buildings, Queens Biorough Office 120-65 Queen Bouleward, 1st Floor Kew Gardens, New York 11424

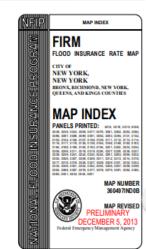
RICHMOND COUNTY: New York City Department of Buildings, States Initiand Borough Office 10 Richmond Tematics Borough Hall, 2nd Floor States Initiand, New York 10201

NOTE TO USERS

FEMA maintains information about map features, such as strete locations and names, in or near designated tooch hazard areas. Requests to revise flood information in or near designated flood hazard areas may be provided to FEMA during the community review period, at the final Consultation Coordination Officer's meeting, or during the statutory 90-day appeal period. Approved requests for changes will be shown on the final printed FIRM.

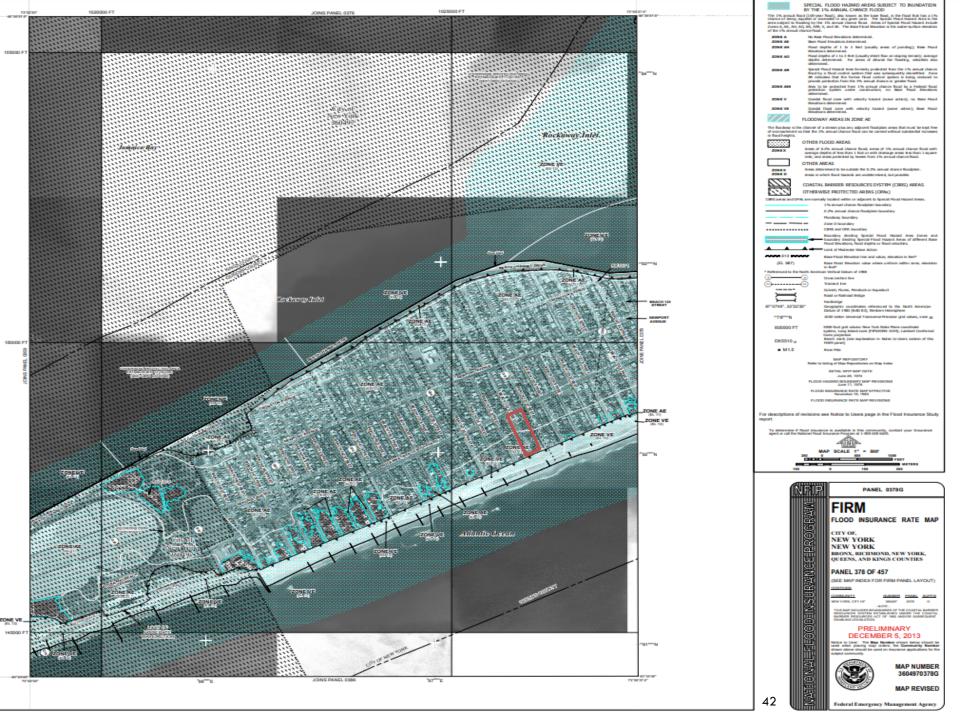
> - NOTE-Designated coastal barriers are located on panels 219, 230, 230, 240, 244, 254, 356, 357, 358, 359, 342, 366, 367, 376, 377, 378, 379, 301, and 382.



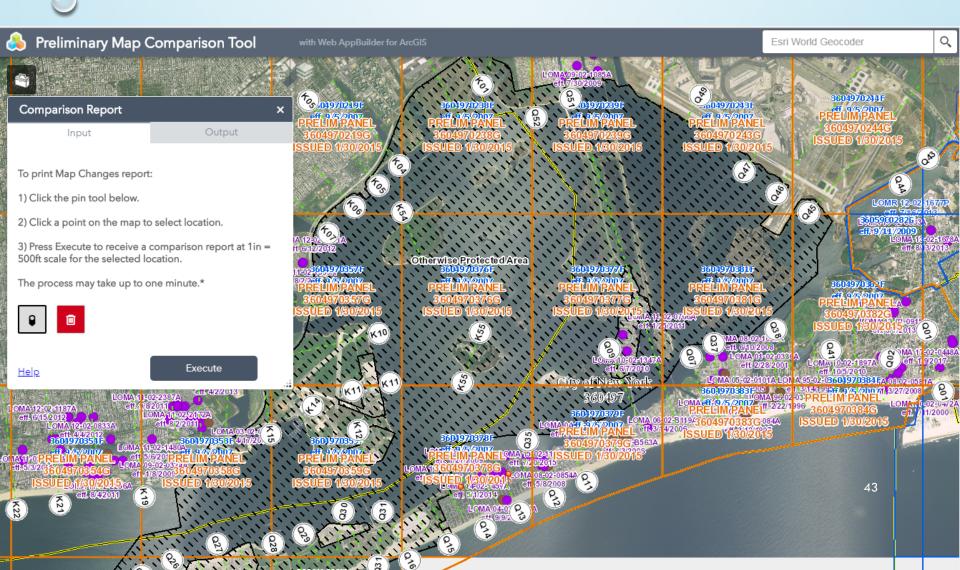


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3604970403G	12/05/2013	1 MB	₽ DL
3604970432G	12/05/2013	1 MB	(DL)



PRELIMINARY MAP COMPARISON TOOL



Comparison of Flood Hazard

Effective & Preliminary Flood Risks



Effe et:		Preliminary			
Effective Zone AE (EL 8 Feet) B6049700 Gfit 9/5/2 AREA OF MINIMAL F Zone A	TOOD HAZARD	PRELIMIE SECASION ISSUED 1/3	ANEL 578G 50/2015		
Effecti	(EL 14 Feet)	Preliminary			
POI Longitude/Latitude	-73.8494, 40.5749	POI Longitude/Latitude	-73.8494, 40.5749		
Effective FIRM Panel	3604970378F	Preliminary FIRM Panel	3604970378G		
Effective Date	9/5/2007	Preliminary Issue Date	1/30/2015		
Flood Zone	x	Flood Zone	AE		
Static BFE*	Not Available	Estimated Static BFE*	10.0 Feet		
Flood Depth	Not Available	Estimated Flood Depth	Not Available		
Vertical Datum	Not Available	Vertical Datum	NAVD88		
Risk Level Flood Hazard Zone	d V Zones. Properties in these flood zones	event. Structures below the estimated water surface el have a 1% chance of flooding each year. This rep			

Moderate Flood Risk Shaded Zone X. Properties in the moderate flood risk areas also have a chance of flooding from storm events that have a less than 1% chance of occuring each year. Moderate flood risk indicates an area that may be provided flood risk reduction due to a flood control system or an area that is prone to flooding during a 0.2% annual chance storm event. These areas may have been indicated as areas of shallow flooding by your community.

WHAT ABOUT FLOOD INSURANCE?

Floodplain Management in Part 55

- Implements EO 11988
- HUD's framework to avoid floodplain impacts
- Does not apply to exempt or CENST projects
- Compliance required if best available information, including preliminary maps, indicate project is in a floodplain

Flood Insurance

- The National Flood Insurance Program (NFIP) implements the Flood Disaster Protection Act
- HUD-assisted projects must comply with requirements set by FEMA, the state, and the locality
- Applies to all levels of review
- Compliance required if a structure is in the floodplain on the current effective FIRM

IF PROJECT IS IN A FLOODPLAIN...

If project is in a special flood hazard area, there are three options:

- **Reject** project site avoid the flood hazard
- Apply to FEMA for letter of map amendment or map revision (LOMA or LOMR) – remove the project from the flood hazard
- Continue the 8-Step Process hard look at alternative sites, minimize flood hazards, restore beneficial values of the floodplain

OVERVIEW OF WETLAND PROTECTION



Reminder: questions submitted through the Q&A panel will be answered after the webinar has ended

WETLANDS LAWS

Wetlands are primarily protected by **two** authorities that discourage activities in wetlands ...

- Executive Order 11990, "Protection of Wetlands" (1977): "avoid to the extent possible the long- and short-term adverse impacts associated with the destruction or modification of wetlands and to avoid direct or indirect support of new construction in wetlands wherever there is a practicable alternative..."
- Section 404 of Clean Water Act (1977): Dredging or filling wetlands ("Waters of the US") requires a section 404 permit from the Army Corps of Engineers

EXECUTIVE ORDER 11990



Purpose: avoid to the extent possible

- Long and short-term adverse impacts associated with destruction or modification of wetlands
- Avoid support for new construction in wetlands when there is a practicable alternative



Requires federal agencies to take action to:

- Minimize destruction, loss or degradation of wetlands
- Preserve and enhance natural and beneficial values of wetlands



8-step process is required for new construction in wetlands

NEW CONSTRUCTION (§ 55.2(b)(8))



New construction includes:

- Draining
- Dredging
- Channelizing
- Filling
- Diking
- Impounding
- Related activities
- Construction of any structures or facilities

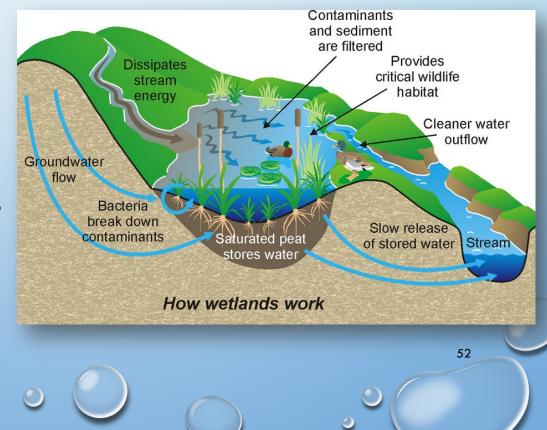
HUD'S WETLANDS DEFINITION

Those areas that are inundated by surface or ground water with a frequency sufficient to support, and under normal circumstances does or would support, a prevalence of vegetative or aquatic life that requires saturated or seasonally saturated soil conditions for growth and reproduction. Wetlands generally include swamps, marshes, bogs, and similar areas such as sloughs, potholes, wet meadows, river overflows, mud flats, and natural ponds. This definition includes those wetland areas separated from their natural supply of water as a result of activities such as the construction of structural flood protection methods or solid-fill road beds and activities such as mineral extraction and navigation improvements. This definition includes both wetlands subject to and those not subject to Section 404 of the Clean Water Act as well as constructed wetlands.

(24 CFR 55.2(b)(11))

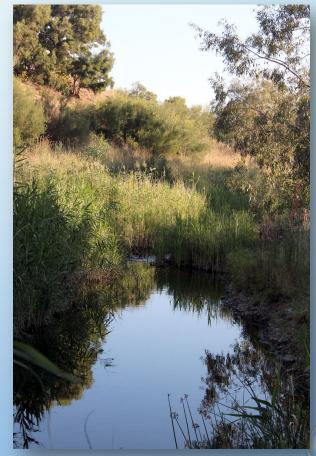
HOW WETLANDS WORK

- Wetlands may not be wet year-round and, in fact, some of the most important wetlands are seasonally dry
- Often found with or in floodplains
- Wetlands serve many purposes:
 - Act as filters, removing pollutants, including metals, from waters
 - Habitat for great variety of plant and animal species, some endangered, that have evolved to live in the wetland's unique conditions
 - Aquifer recharging
 - Shoreline erosion control
 - Recreation and aesthetics



REQUIREMENTS SUMMARY

- If the project is determined to impact a wetland:
 - Complete the 8-Step Decisionmaking Process
 - Consult with the US Fish and Wildlife Service
 - Consult with the US Army Corps of Engineers (USACE) to determine if a CWA 404 permit is necessary
- New construction in wetlands must be avoided unless:
 - No practicable alternative
 - Action includes all practicable measures to minimize harm to wetlands









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MAPPING THE WETLAND

- National Wetlands Inventory (NWI): primary screening tool, managed by US Fish and Wildlife Service
- Use NWI to determine if the project is in proximity to wetlands
 - Digital wetlands mapper: <u>http://www.fws.gov/wetlands/data/mapper.Html</u>
 - Wetlands code interpreter: <u>http://www.fws.gov/wetlands/data/wetland</u>
 <u>-codes.Html</u>





GO TO USFWS WETLAND MAPPER

resignificante			Wildlife Service					
X		Nation	al Wetlands Inv	entory				
	Google Custom:		im Search	Search			Ecological Services	
ES Home Abo	oat Us	s Species	Wildlife and Habitat Conservation	Development and Energy	FWS Regions	Library	Newsroom	
NWI Monu		Wetlands M	lapper					
NWI Home			apper is designed to deliver easy-to resource information to produce cur					
QUICK Links	in partian and deepwater habitats. The Watland Mapper fulfills the U.S. Fish and Wildlife Service's strategic plan for the development							
Wetlands Data	D	promote the und	lerstanding and conservation of weti search and decision making.					
Status and Trends	D	The wetlands dis	splayed on the Wetlands Mapper sh a the limits of proprietary jurisdiction	ow wetland type and exten of any Federal, State, or ic	t using a biological (definition	of wetlands. There is no	
Wetlands Layer	D		attempt to define the limits of proprietary jurisdiction of any Federal, State, or local government, or to establish the geographical scope of the regulatory programs of government agencies.					
Other Topics	D	Read th	Read the Disclaimer, Data Limitations, Exclusions and Precautions, and the Wetlands Geodatabase User Caution.					
National Wetlands		Refer	to the following links for documentat	tion and instructions:				
About Us	D	Wetlands Mapper Documentation and Instructions Manual (PDF) VIDEO: How to find and use the U.S Fish and Wildlife Service's Wetlands Mapper						
Help and Contac	cts	Open a	any Mapper by clicking on the map icon:	s below (best viewed by maxi	mizing your browser v	vindow):		
2		3 Open a	Wetlands Mapper		Pro	ojects Ma	apper	
Frequently Asked Questions	1		NWI data desktop/mobile vie data last modified May 1, 2				ata additions apping projects.	
Contact Us					C.	12		
Search Documents an Websile	and	https:/	/www.fws.gov	<u>/wetlands</u>	<u>/data//</u>	Maj	pper.html ⁵⁶	



5

National Wetlands Inventory surface waters and wetlands

BA	SEMAP
MAP	LAYER
8 Wetlands	(
) Riparian	(
) Riparian Mapping Areas	(
7 Data Source	(
O Source Type	
O Image Scale	
O Image Year	
) Areas of Interest	
) FWS Managed Lands	(

Historic Wetland Data



O ABOUT

🗢 GET DATA

🚔 PRINT

X

Q FIND LOCATION



U.S. Fish and Wildlife Service National Wetlands Inventory

Wetland Example



December 11, 2017

Wetlands

Estuarine and Marine Wetland

- Estuarine and Marine Deepwater
- Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

Lake Other Riverine This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

IF NWI INDICATES A WETLAND

- HUD/RE is responsible for determining determination whether project will impact a wetland (See 55.2(b)(11)
- Consult with US Fish and Wildlife Service to determine location, boundaries, scale, and classification
- If US FWS is not available to resolve NWI ambiguity or controversy, determination must be made by a wetlands professional
- Other information sources may used in conjunction with NWI maps:
 - USDA-NRCS National Soil Survey (NSS)
 - USGS topographic maps
 - State and local information concerning the location, boundaries, scale and classification of wetlands in the area



WETLANDS DELINEATION STUDY

- Must be performed by an appropriate wetlands professional
- Establishes wetlands boundaries



HOW TO: DETERMINE IF THE 8-STEP IS REQUIRED



Reminder: questions submitted through the Q&A panel will be answered after the webinar has ended

EXCEPTIONS TO PART 55

§55.12(a)	§55.12(b)	§55.12(c)	§55.28			
 Activities that may complete the Modified 5-Step Process instead of the full 8- Step 	 Activities that are not required to complete the 8-Step Process 	• Activities that are not required to comply with Part 55	 Non- floodplain wetlands activities that may complete the Modified 3-Step Process 			
Always check the reas for specific requirements						

Always check the regs for specific requirements

PART 55 DOES NOT APPLY TO...

§55.12(c) – Part 55 does not apply to the following types of actions:

- Projects that are exempt under Part 58 or categorically excluded not subject to the related laws and authorities (CENST) under Part 50 or 58
- Minor amendments to previously approved actions without additional impacts to floodplains or wetlands
- Activities that restore and permanently preserve floodplains and wetlands (requires clearing the property of all existing structures and improvements)
- Housing vouchers and rental subsidies that are not project-based (i.e., do not involve site-specific subsidies)

63

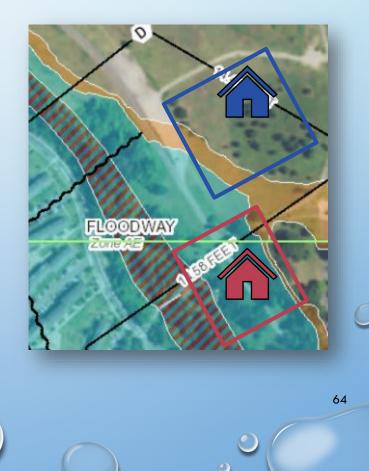
- Removal of barriers that restrict the mobility of and accessibility to elderly and persons with disabilities
- Projects involving ships and other waterborne vessels

Always check the regs for specific requirements

PART 55 DOES NOT APPLY TO... [CONT.]

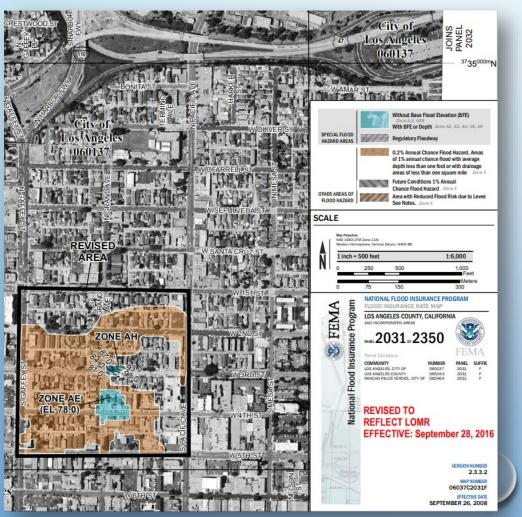
§55.12(c)(7): Part 55 does not apply to a site in which an **incidental portion** is situated in an adjacent floodplain or wetland, **but only if**:

- Proposed activities do not occupy or modify the floodplain;
- Provisions are made for site drainage that would not have an adverse effect on any wetland; and
- A permanent covenant or comparable restriction is placed on the property's continued use to preserve the floodplain or wetland.



PART 55 DOES NOT APPLY TO... [CONT.]

•



Any non-wetland site for which FEMA has issued:

- A final Letter of Map Amendment (LOMA) or final Letter of Map Revision (LOMR) that removes the property from a FEMA-designated floodplain, or
- A conditional LOMA or conditional LOMR if the project approval is subject to the requirements and conditions of the conditional LOMA or conditional LOMR

8-STEP PROCESS DOES NOT APPLY TO...

Under §55.12(b), certain activities must comply with Part 55 but are not required to complete any part of the 8-Step Process:

- **Purchase or refinance** of existing single-family housing (under certain circumstances, e.g. property is not a floodway or V Zone)
- **Minor repairs or improvements** of single-family housing that do <u>not</u> meet the thresholds for "substantial improvement."
- **Disposition** of individual HUD-acquired single-family housing
- Leasing an existing structure located within the floodplain (under certain circumstances, e.g. property is not a floodway or V Zone and the entire structure is fully ensured under NFIP)

Always check the regs for specific requirements

MODIFIED 5-STEP PROCESS APPLIES TO...

Under §55.12(a), certain activities may skip Steps 2 (early notice), 3 (alternatives) and 7 (final notice)

- 5-Step Process applies to...
 - **Disposition** of housing (under certain circumstances)
 - **Purchase or refinance** of existing multifamily housing, hospitals, & nursing homes (under certain circumstances)
 - **Rehab** of existing multifamily housing, hospitals, nursing homes, and nonresidential structures (under certain circumstances, including that the project may not include *substantial improvement*)

Always check the regs for specific requirements

MODIFIED 3-STEP PROCESS APPLIES TO...

- Under §55.28, wetlands projects can skip directly to Step 6 if:
 - The project is **outside** of the 100-year floodplain (or 500-year for critical actions),
 - The USACE (or state/tribe under Section 404(h) of Clean Water Act) issues the proposed project an individual Section 404 permit and HUD/RE adopts the terms and conditions of that permit, and
 - All wetlands adversely affected by the action are covered by the permit
- Exception does **not** apply to general or nationwide permits
- Where applicable, only 3 steps are required: Reevaluation (Step 6), Final Notice (Step 7), and Implementation (Step 8)







Reminder: questions submitted through the Q&A panel will be answered after the webinar has ended



The decision making process outlined in 55.20 provides framework for:

- Taking a "hard" look at alternative sites
- Minimizing flood hazards and impacts to wetlands
- Restoring beneficial values of the floodplain and wetlands



RESPONSIBILITIES

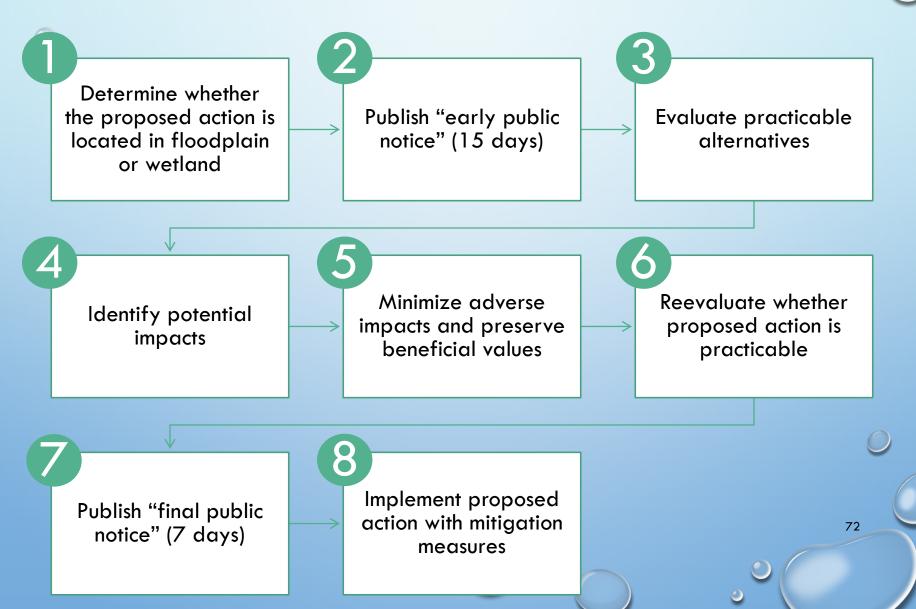
HUD/RE responsibility

- Completes the 8-step process
- Ultimately responsible for compliance with Part 55
- Monitor approved projects and ensure that required mitigation is implemented

Applicant/grantee/recipient responsibility (55.3(d))

- Supply HUD/RE with all available, relevant information necessary to comply with Part 55
- Cover the costs of notice publication
- Implement mitigation measures required by HUD/RE or choose an alternate site

8-STEP PROCESS (§ 55.20)



STEP 1: MAP FLOODPLAINS AND WETLANDS

Floodplain Identification

- Rely on FEMA maps
- Interim/preliminary FEMA data must be used unless they are less protective than the current map
- If FEMA information is unavailable or insufficiently detailed, use "best available information"

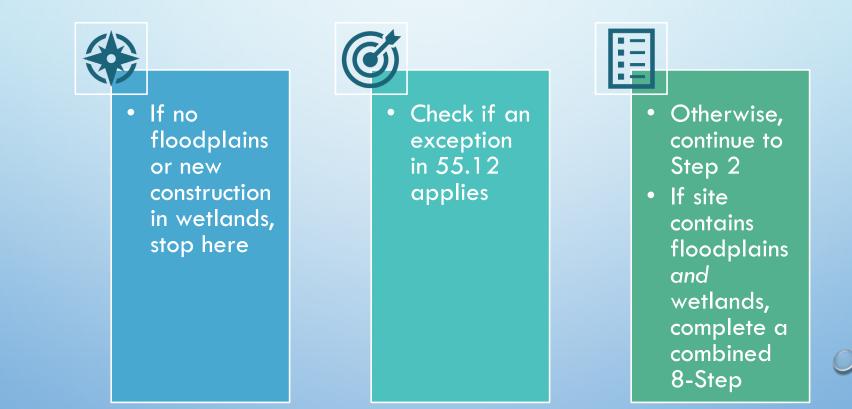
Wetlands Identification

- Use National Wetlands Inventory (NWI) maps from FWS as a preliminary screening tool
- If there is reason to question NWI maps, attempt to consult with FWS, refer to secondary sources
- Wetlands delineation may be necessary

73

* Always mark the site on all maps *

STEP 1: WHAT'S NEXT?



STEP 2: EARLY PUBLIC NOTICE

Notify public of proposal at earliest possible time in local printed news medium

- Also send to agencies and individuals with interest in the proposed action
- 15-day minimum comment period
- Must include:
 - Project name, location, and description
 - Total number of acres in floodplain/wetland
 - Functions and values of floodplain/wetland that may be adversely impacted
- HUD approving official or RE certifying officer and office hours
- Phone number and website (if any) for further information

STEP 3: ALTERNATIVES

Identify and evaluate practicable alternatives to locating project in floodplain or wetland

- Alternative sites (outside floodplain/wetland but within same geographic area)
- Alternative methods that achieve the same project objective/purpose
- "No project" alternative (rejecting project in floodplain/wetland)
 Practicable = measured by general concept of site feasibility considering natural, social, economic, and legal factors.

STEP 4: IMPACTS

Identify potential direct and indirect impacts

- Consider impacts to:
 - Lives and property
 - Floodplains and wetlands
- Three types of impact:
 - Positive & negative
 - Concentrated & dispersed
 - Short- and long-term



77

 Does project encourage future development in floodplains or wetlands?

STEP 4: IMPACTS TO CONSIDER

Floodplain Impacts

Focus on:

- 1. Adverse impacts to lives and property, and
- 2. Natural and beneficial floodplain values, including
 - Water resources: natural flood moderation, water quality maintenance, groundwater recharge
 - Living resources: flora, fauna
 - Cultural resources: archaeological, historic, recreational
 - Agriculture, aquaculture, forestry

Wetland Impacts

Consider the project's potential effect on the survival and quality of the wetland:

- How impacts to water supply/quality, pollution, flood/storm hazards, and sediment/erosion will affect public health, safety, welfare
- Impacts to existing natural systems, e.g. species and habitat diversity/ stability, hydrologic function, food resources
- Extra cost to minimize impacts
- Impacts to recreational, scientific, cultural resources

STEP 5: MITIGATION

Minimize, restore, preserve

- Minimize "reduce harm to smallest possible degree" (rigorous, demanding standard beyond mitigate or alleviate)
- Restore re-establish environment in which the natural & beneficial floodplain/wetland values can operate
- Preserve prevent modification to natural floodplain/wetland or maintain as closely as possible to its natural state



STEP 5: MITIGATION OPTIONS

For floodplains and wetlands:

- Minimizing fill, using permeable surfaces
- Landscape enhancements to maintain/restore natural hydrology/drainage
- Using native plant species, minimizing tree/plant cutting
- Stormwater capture & reuse
- Green/vegetative roofs with drainage provisions
- Conservation easements
- Scale back size of project/construction area

For floodplains: elevating or floodproofing structures (including freeboard)

80

For wetlands: compensatory mitigation

ELEVATION

- The National Flood Insurance Program (NFIP) requires all new construction and substantial improvement projects to elevate to base flood elevation (BFE)
 - Non-residential structures generally may floodproof instead of elevating
- Part 55 does not have elevation requirements for non-critical actions
 - HUD-assisted projects must comply with NFIP rules and local elevation rules



FREEBOARD

- Freeboard = a margin of safety added to BFE
 - 1 foot of freeboard translates to elevating
 1 foot above BFE
- Some HUD programs, including CDBG-Disaster Recovery and FHA Multifamily, have freeboard requirements not in Part 55
- Benefits:
 - Significant savings on flood insurance premiums
 - Safer homes with less damage during floods



MITIGATION FOR CRITICAL ACTIONS

55.20(e)(3) includes certain *required* mitigation measures for critical actions in the 100-year or 500-year floodplain:

New construction must be designed and built at or above the 100-year floodplain

- Prepare an early warning system
- Implement an emergency evacuation/relocation plan
- Identify evacuation routes
- Mark past or estimated flood levels on all structures

COMPENSATORY MITIGATION

Compensatory Mitigation = restoration, establishment, enhancement, and/or preservation of resources to offset unavoidable adverse impacts

- Recommended for unavoidable adverse impacts to more than one acre of wetland
- Not a substitute for avoiding and minimizing impacts to the maximum extent practicable

Options include: permittee-responsible mitigation, mitigation banking, in-lieu fee mitigation, use of preservation easements or protective covenants or other forms of mitigation promoted by state or federal agencies



STEP 6: REEVALUATION

Reevaluate proposal and alternatives

- Is project still feasible considering...
 - Exposure to flood risks (Step 4)
 - Potential adverse impacts to floodplain/wetland and loss of natural functions and values (Step 4)
 - Minimization measures and opportunities to restore & preserve floodplain/wetland values (Step 5)
- In light of Steps 4 & 5, do alternatives rejected in Step 3 appear feasible?
 - Best practice: Prepare table to compare adverse impacts of alternatives
- If neither proposed project nor alternatives are acceptable, the alternative is no action

STEP 6: REEVALUATION

Consider potential impacts caused or avoided inside and outside floodplain/wetland

 Discussion should include potential impacts to human life, real property, and functions/values of floodplain/wetland

Discuss economic costs in this step

 Floodplains: discussion should include costs of flood insurance (costs and savings), elevation/floodproofing, replacement of services/functions that may be lost due to flooding

86

• Wetlands: discussion should include cost of filling wetland, mitigation

STEP 7: FINAL NOTICE

Public explanation

- If no practicable alternative, inform the public
 - Publish in newspaper with same procedures as Step 2
 - 7-day minimum comment period
- Notice must include:
 - 1. Reasons why project must be located in floodplain/wetland
 - 2. List of alternatives considered in Step 3
 - 3. All mitigation measures to be taken and actions to restore and preserve natural and beneficial values



STEP 8: IMPLEMENTATION

Implement project

- HUD/RE and recipient have a continuing obligation to ensure that mitigation measures described in Final Notice are implemented
- Documentation (§55.27) must show:
 - Actual sites were identified for consideration as practicable alternatives outside of floodplain/wetland
 - Reason for non-selection of above sites as practicable alternatives
 - Minimization measures have been applied to the project design





WRAPPING UP: PART 55 HIGHLIGHTS

- Prohibits nearly all HUD assistance in floodways and most construction in coastal high hazard areas
- Requires an 8-step decision making process to demonstrate that there are no practicable alternatives for:
 - Most projects in a 100-year floodplain
 - Critical actions in the 100- or 500-year floodplain
 - Functionally dependent uses in a floodway or coastal high hazard area
 - New construction impacting a wetland
- Provisions to modify or skip the 8-step process for some activities

ONLINE RESOURCES

See the HUD Exchange for more:

https://www.hudexchange.info/programs/environmentalreview/floodplain-management/ and https://www.hudexchange.info/programs/environmentalreview/wetlands-protection/

- Resources include:
 - Overview of requirements
 - Links to external resources and mapping tools
 - Model 8-Step processes, covenants, and public notices



QUESTIONS

SUBMIT QUESTIONS USING THE Q&A PANEL AND THEY WILL BE ANSWERED AFTER THE WEBINAR HAS ENDED



FOR MORE QUESTIONS?

For questions about specific projects, work with the local Field or Regional Environmental Officer

Visit:

https://www.hudexchange.info/programs/en vironmental-review/hud-environmental-staffcontacts/

92

Questions submitted through the Q&A panel will be answered after the webinar has ended

UPCOMING WEBINARS

- Noise Training for FHA Partners (April 29, 2020)
- Floodplain Training for FHA Partners (May 12, 2020)
- Section 106 (May TBD 2020)
- Section 106 Historic Preservation Training for FHA Partners (July 23, 2020)



