



Eastwick: From Recovery to Resilience

Quarterly Meeting - December 7, 2023

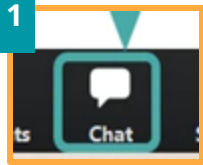


City of
Philadelphia

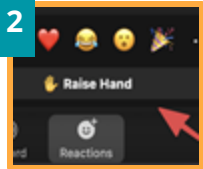
Zoom Functions

Please note:
This meeting will be recorded

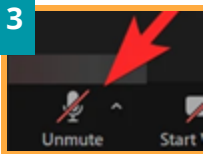
To ask questions:



Use the **chat** function to ask questions at anytime

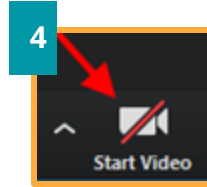


Use the **raise hand** function to ask verbally



Click the **unmute** function to speak when called upon

If you prefer to remain anonymous:



Turn off your camera by clicking the **camera button** at the bottom of the zoom window



Change your name by clicking **participants**, and then clicking **more** next to your name OR clicking the **three dots** next to your name and selecting the 'change name' function from the drop-down menu



Ask questions anonymously by submitting them through the **direct message** option at the bottom of the chat window to "**Questions - chat**".



Agenda

Introduction & Recap

Flood Resilience Strategy and Long Term Measures

Interim Flood Resilience Measures

OPEN FORUM

Community Updates

Announcements and Closing



Who's in the Virtual Room



Eastwick Friends & Neighbors Coalition



PHILADELPHIA PARKS & RECREATION



THE CITY OF PHILADELPHIA
OFFICE OF
SUSTAINABILITY



Poll 1



Recap



Eastwick: From Recovery to Resilience

Eastwick: from Recovery to Resilience is a multi-agency initiative coordinated by the Office of Sustainability and the Office of Transportation, Infrastructure, and Sustainability.

It aims to align City, State and Federal efforts to improve community well-being in Eastwick through actions informed by Eastwick's history, present context and residents' vision for a resilient future.



What Are the Steps
To Reach Our Goal


**Deliver and
Sustain
Transformation
Initiatives**


**Co-Develop
Actions that Build
a Resilient Future**

**Eastwick:
from Recovery
to Resilience**


**Strengthen
Partnership and
Collaboration**



**Create a Shared
Understanding of the
Issues**

Eastwick: from Recovery to Resilience

Interim and Near-term Flood Resilience

Flood Recovery Grant Program



Place-based Messaging System



Community Preparedness



HESCO Flood Barriers

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Flood Ready Homes Guide

THE CITY OF PHILADELPHIA
OFFICE OF SUSTAINABILITY

Long-term Flood Resilience Strategy

Nature-based Solutions



Voluntary Buyout?
Reconstruction?
What else?

Cobbs Creek Levee



Relocation/
Landswap



2023 at a glance...

Created spaces to share and learn, including **an Open House, focus groups**, and organized first (*annual?*) **Eastwick Community Day!**

Followed up on **quality of life issues** raised by residents.

Secured over **\$1.5 million towards flood resilience and community capacity building efforts** and actively applying for more.

Distributed **capacity-building funds** to support collaboration and **Isaias recovery funding** to complete recovery.



Behind the scenes...

Intergovernmental Coordination

City, State, Federal agencies and elected officials meet monthly and quarterly (leadership) to coordinate on:

- Project updates -> **reduce duplication**
- Community engagement -> **reduce engagement fatigue**
- Accelerating **action**

Flood Model Coordination

Flood modeling teams participating in workshops to compare and share model assumptions, extents, and data.



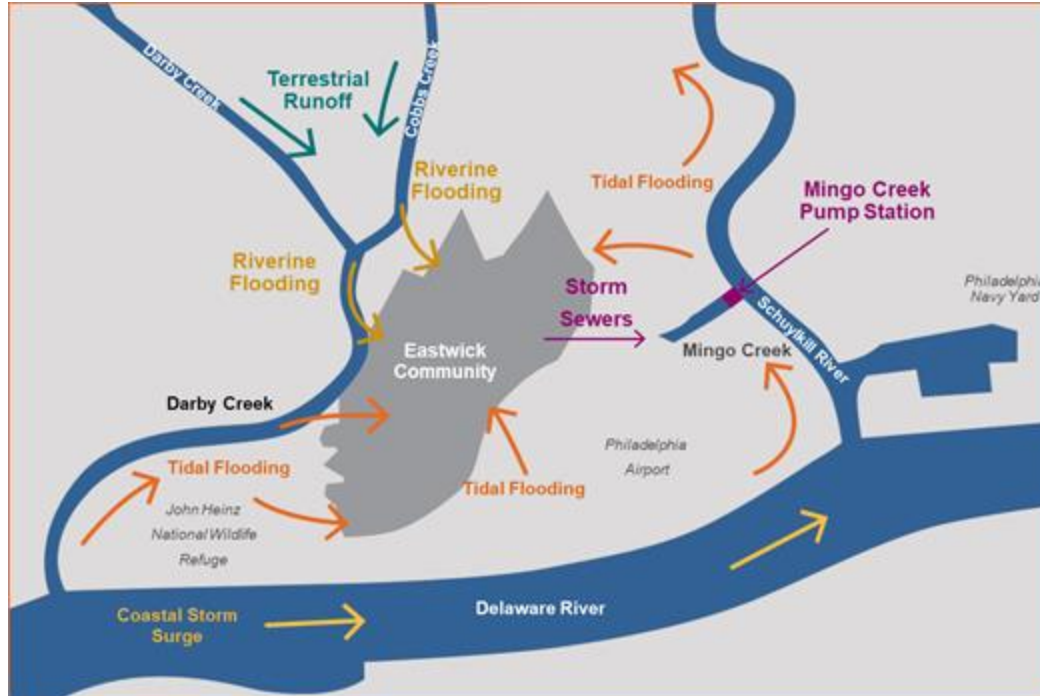
Funding and support secured - \$1.5m to date

	Funding Source	Total Amount	Use
Recovery & Preparedness	General Operating Fund	\$200,000	Complete Recovery from Isaias
Community + City Capacity Building	Operations Transformation Fund	\$100,000	Build internal capacity in the City
	William Penn Foundation	\$100,000	Community capacity building
	Justice 40 Capacity Building Fund	\$30,000	Community Empowerment
	EPA Environmental Justice Government-to-Government	\$450,000	Capacity building for Eastwick United
Secure Funding for long-term Flood Resilience	FEMA Technical Assistance	In-kind	Technical Assistance for State and Federal Grants
	ULI Technical Assistance Panel	In-kind	Technical Assistance for Landswap Proposal
	Operations Transformation Fund, William Penn Foundation	\$97,000, \$120,000	Consultant support for preparing federal grant application and modeling needs
	FEMA Flood Mitigation Assistance	\$500,000	Flood Resilience Strategy



Flood Resilience Strategy

Eastwick is vulnerable to multiple sources of flooding



- Riverine flooding from Darby/Cobbs
- Tidal flooding from the Delaware
- Coastal Storm Surge from the Delaware
- Sea Level Rise

Concept diagram of flood sources in Eastwick.
Source: Arcadis

Eastwick: from Recovery to Resilience

Interim and Near-term Flood Resilience

Flood Recovery Grant Program



Place-based Messaging System



Community Preparedness



HESCO Flood Barriers

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Flood Ready Homes Guide

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Long-term Flood Resilience Strategy

Nature-based Solutions



Voluntary Buyout?
Reconstruction?
What else?

Cobbs Creek Levee



Relocation/
Landswap



Approach for Flood Resilience Strategy



INTEGRATING EXISTING STUDIES AND CONCEPTS INTO COMPREHENSIVE PLANNING PROCESS



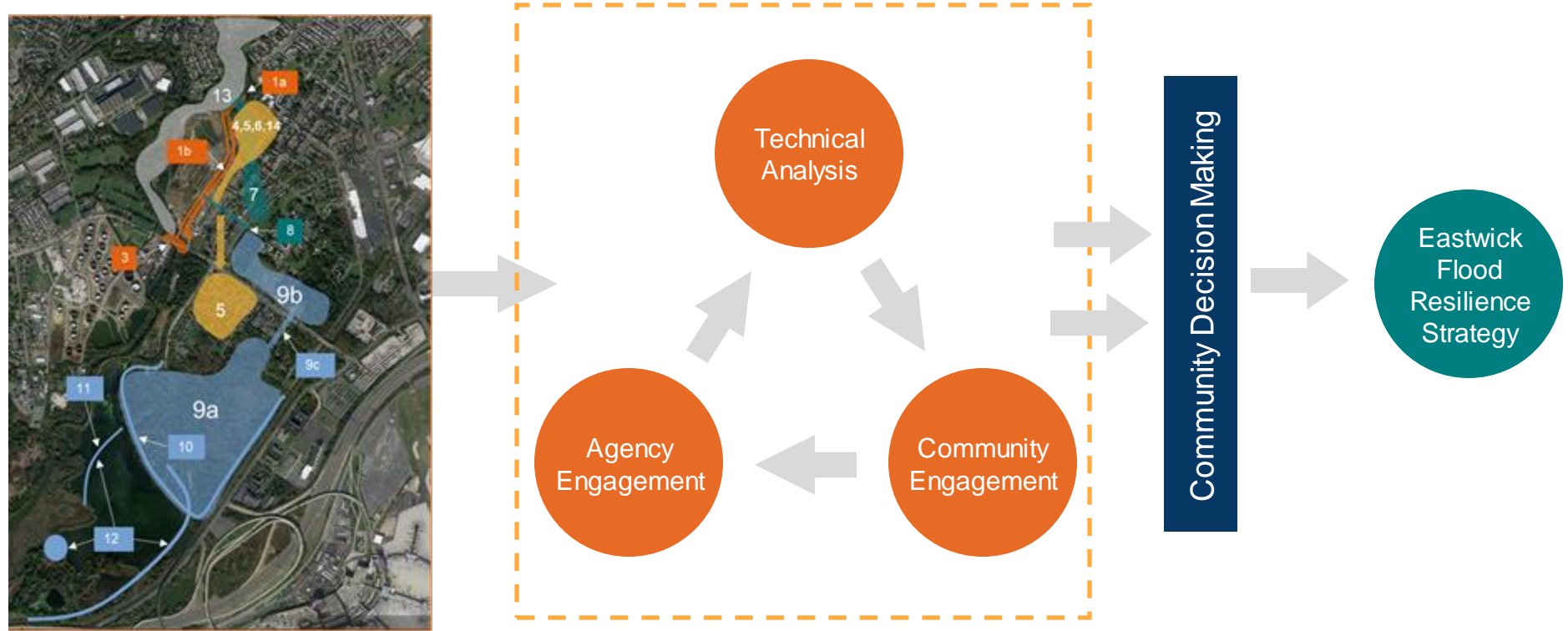
STEVENS
INSTITUTE OF TECHNOLOGY
THE INNOVATION UNIVERSITYSM



FEMA



Approach for Flood Resilience Strategy






Q&A



Army Corps Levee Feasibility Study




US Army Corps of Engineers - Levee Overview

- The US Army Corps of Engineers has proposed a levee as the **Tentatively Selected Plan**.
 - A levee is **an earthen embankment** designed to keep water from flooding a particular area.
 - The levee is designed to **mitigate flooding during the “100-year storm”** (riverine flooding event) from entering Eastwick through the Planet Streets.
 - Public Comment Period has been extended to **January 31, 2024**.
 - Submit comments by email: PDPA-NAP@usace.army.mil
 - Submit comments by mail: U.S. Army Corps of Engineers Planning Division, 1650 Arch Street, Philadelphia, PA 19103
- 




Frequently Asked Questions

- Did the Army Corps look at a variety of options, or did you go straight to the levee?
 - What can residents expect to see when they look out their window?
 - What impact will the levee have on flood insurance?
 - How much do homeowners have to pay for the levee?
- 



FAQ: Did the Army Corps look at a variety of options, or did you go straight to the levee?

US Army Corps of Engineers looked at a suite of measures, including structural flood walls, flood proofing, acquisitions, and elevations. Through a detailed assessment, other measures were not considered in the Tentatively Selected Plan. A flood wall can provide the same level of flood risk management but would require much deeper excavation which could interfere with the clean fill cap on the landfill.





FAQ: What can residents expect to see when they look out their window?


If the levee is built, it would be an open grass mound, about 15 ft tall, 70 ft wide. For reference, the landfill is 85 ft tall. The Rec Center is about 10-15 ft tall. The toe of the levee is anticipated to be at least 15 ft from property lines. A levee would not include a cement wall.





FAQ: What impact will the levee have on flood insurance?


If the levee is built, the FEMA mapped floodplain would change. According to modeling from the Tentatively Selected Plan, with the levee in place **no structures will be added to the Special Flood Hazard Area**, meaning no new households will be required to pick up flood insurance on either side of the creek. Households protected from the levee **may be removed from the Special Flood Hazard Area**, in which case they will no longer be required to carry flood insurance.





FAQ: How much do homeowners have to pay for the levee?

Homeowners will not have to pay for the levee. The costs for design and construction will be shared between the Non-federal Sponsor (which is likely the City of Philadelphia) and the Army Corps of Engineers.





Nature-based Solutions



Nature-Based Solutions

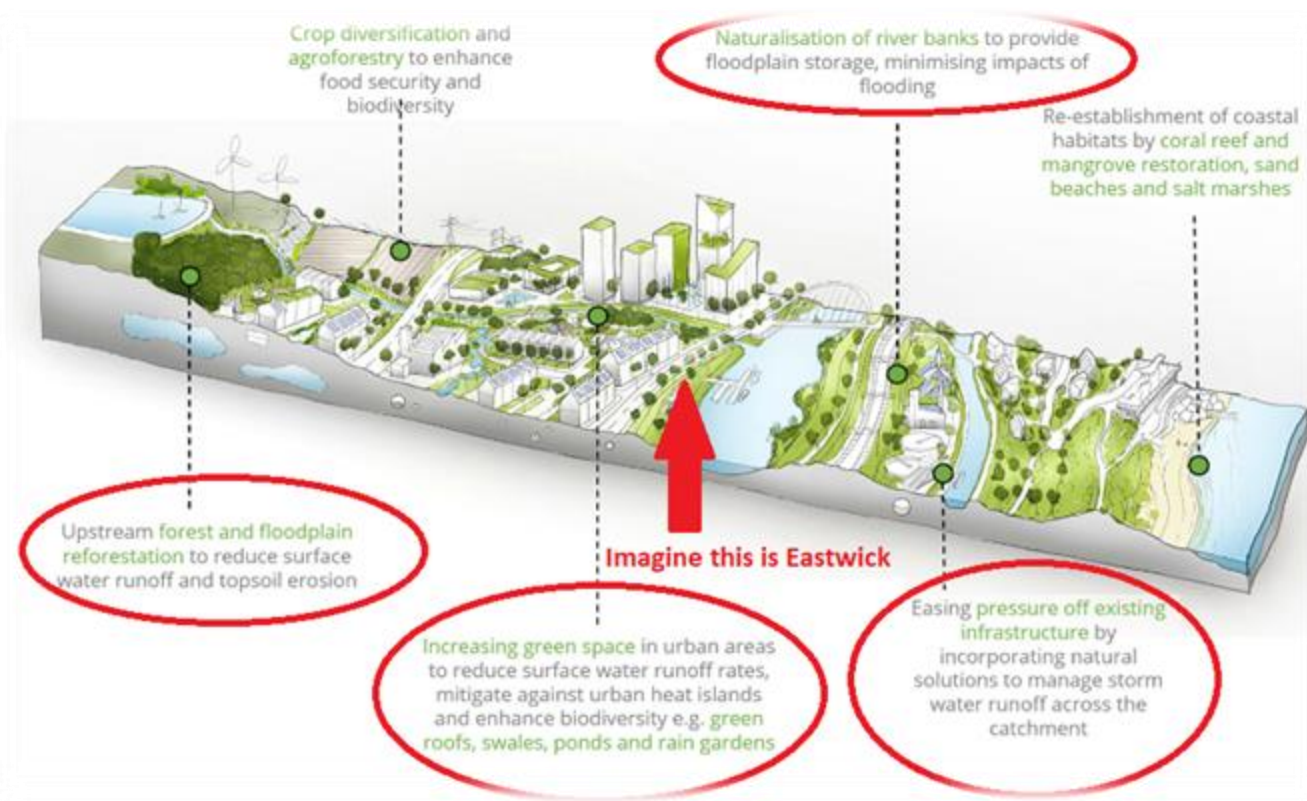
...AS ANOTHER TREATMENT FOR FLOODING RELIEF – 12-7-2023

Lamar_Gore@fws.gov , Refuge Manager



U.S. Fish & Wildlife Service

*John Heinz National Wildlife Refuge at Tinicum
America's First Urban Refuge*



Depending on the landscape, there can be very different types of Nature-Based Solutions that can be applied to

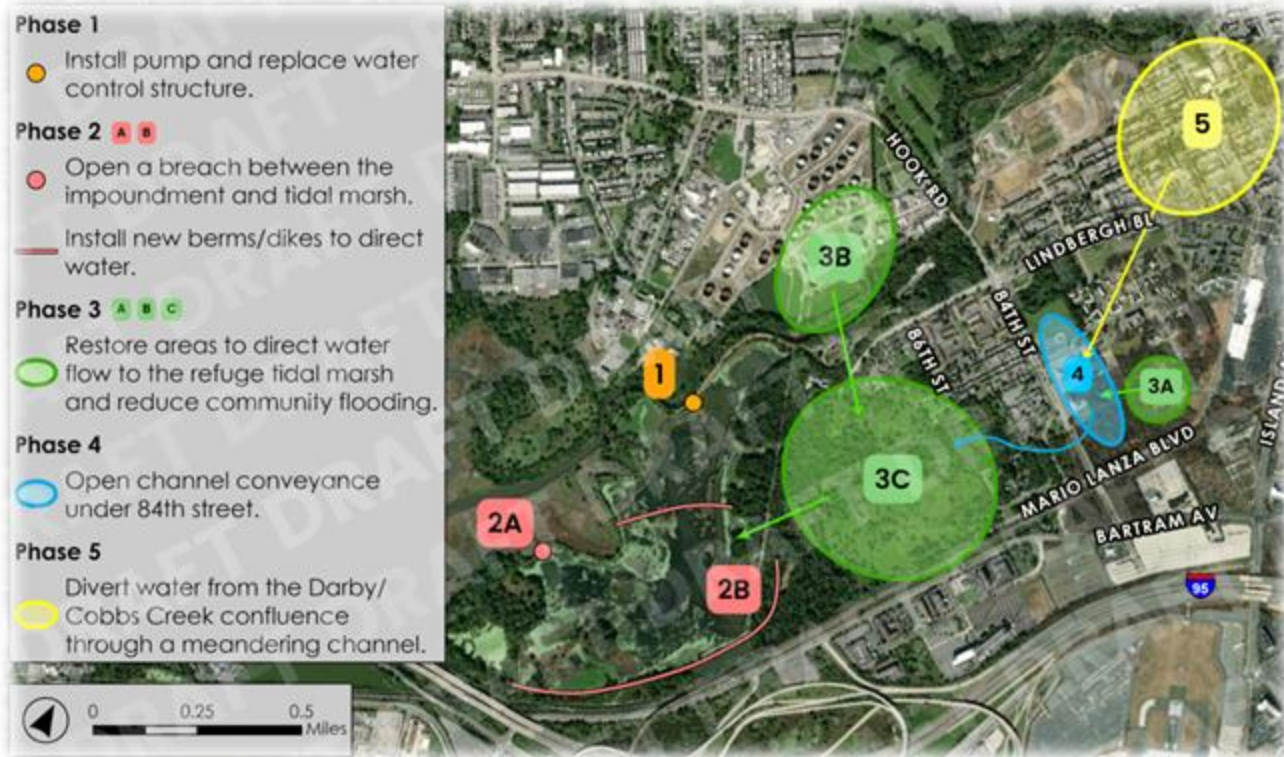
U.S. Fish & Wildlife Service

and help improve the health of our communities.

*John Heinz National Wildlife Refuge at Tinicum
America's First Urban Refuge*

BEGINNING TO ADDRESS THE CHALLENGES

MORE RESILIENT HABITAT FOR PEOPLE AND WILDLIFE



U.S. Fish & Wildlife Service

*John Heinz National Wildlife Refuge at Tinicum
America's First Urban Refuge*



U.S. Fish & Wildlife Service

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America's First Urban Refuge*





Q&A



Interim Flood Resilience Measures

Flood Ready Homes Guide



A Resident's Guide to a Flood Ready Home

Take Action Today to Reduce the Impact of Flooding to Your Home and Belongings in Eastwick

If you are a resident of Eastwick, this guide is for you. Developed by the Philadelphia Office of Sustainability, this guide is created to help provide you with information on how to protect your home from flooding now.

Step 3: Match Flood Ready Home Strategies to Your Home

The three Flood Ready Home Strategies described in this guide have been tailored specifically for Eastwick. The three strategies listed here are described in more detail on the following pages:



Strategy 1: Minimize the damage when flooding enters your home.



Strategy 2: If your structure allows it, reduce damage by keeping the water out.

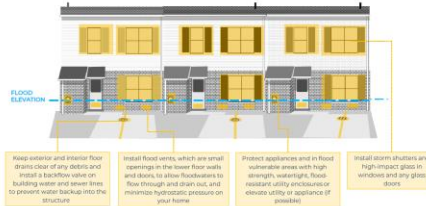


Strategy 3: Follow FEMA best practices to reduce your risk and insurance premiums.

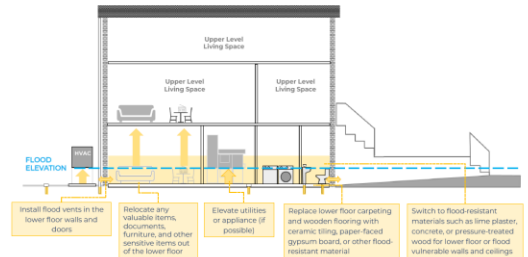


Strategy #1: Minimize the Damage When Flooding Enters Your Home

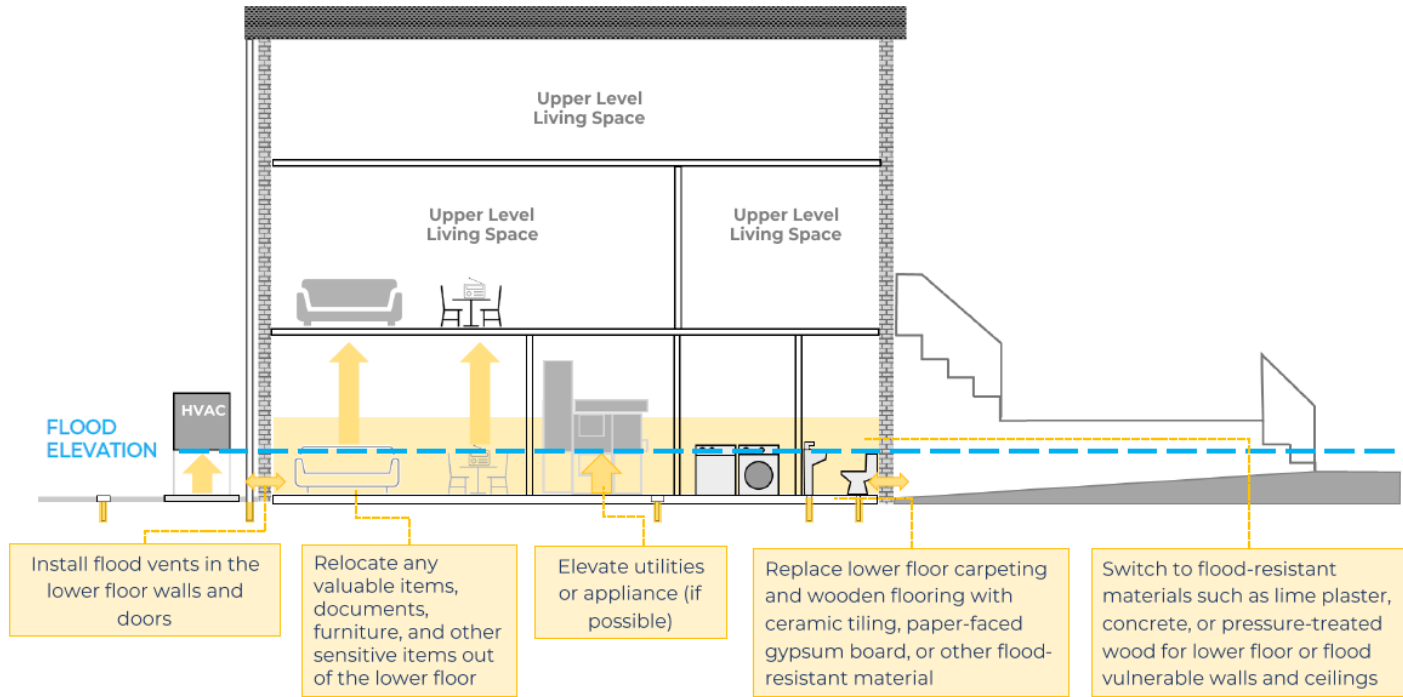
Strategy #1 Diagram (Exterior): Illustrated on Home Type B but also applicable to Home Types A and C



Strategy #1 Diagram (Interior): Illustrated on Home Type A but also applicable to Home Types B and C



Strategy #1 Diagram (Interior): Illustrated on Home Type A but also applicable to Home Types B and C



Interim Flood Barriers

- An interim solution using HESCO Floodline barriers
- Functions similarly to a levee
 - Provides some level of protection, but not as much as a levee
 - Would remain in place for 5-10 years
- **FEMA** providing technical assistance in developing funding applications
- **EPA** providing flood modeling
- Coordination and support from **USACE, Heinz,** and others



HESCO barrier potential alignments



Two Height Options

- 4 feet
- 8 feet (pyramid)

Current alignment (subject to change)

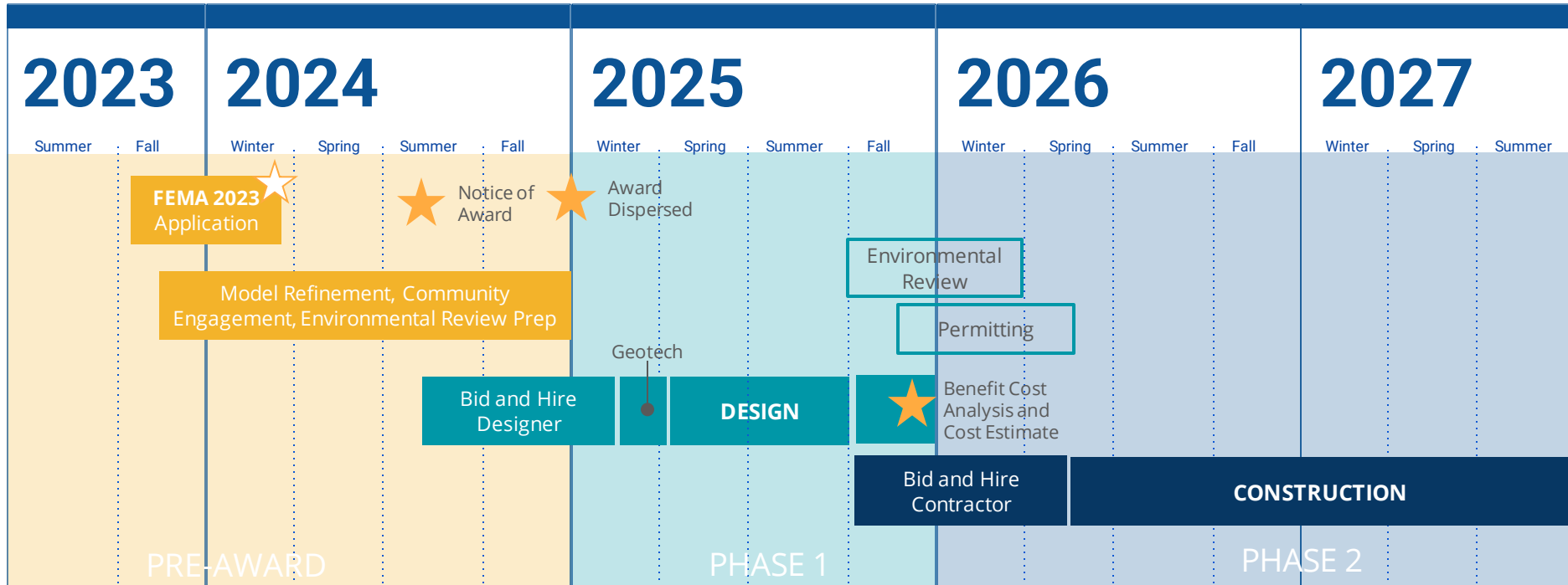


Next Steps

- OOS is submitting FEMA funding application for **phased design and construction.**
- Current timeline suggests **implementation *will likely* take 3-4 years.**
- OOS will continue community and stakeholder engagement



Tentative Timeline Under Federal Funding





OEM Place-based Messaging System

Eastwick Place Based Messaging System

□ Background:

- OEM received a grant in 2022 to enhance the current alert and warning system.
- Translated emergency messages into ten additional languages.
- Place based messaging system in Eastwick.
- New flood gauges and cameras in Eastwick.

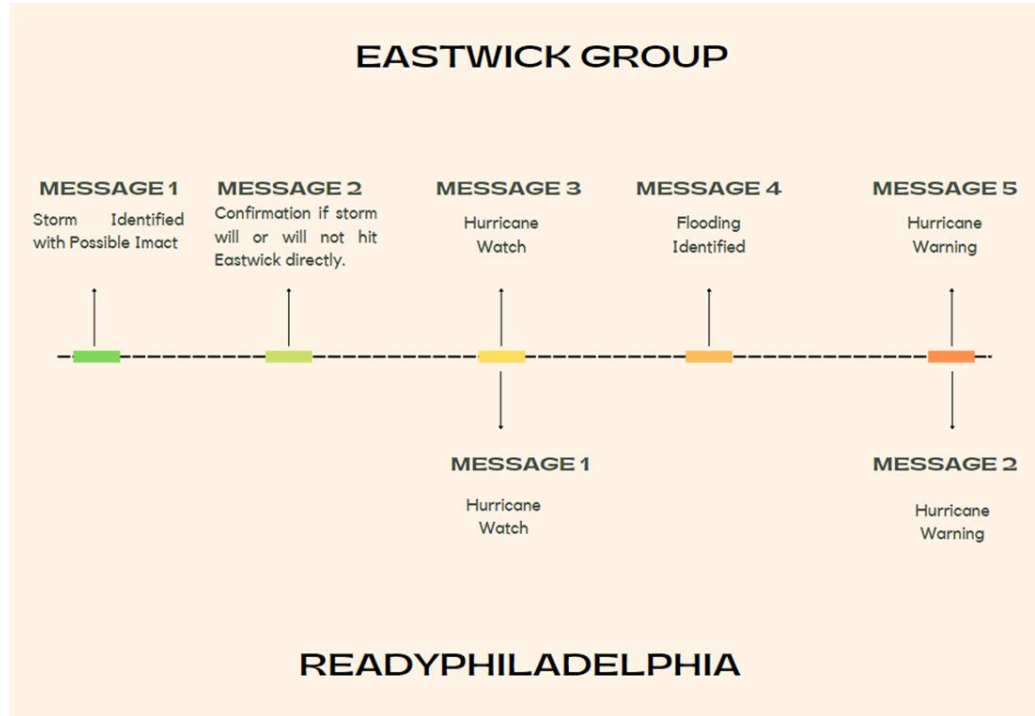
□ Current Status:

- Completed community outreach in June 2023
- Emergency alert templates written
- Planning community focus group for January 2024



***Draft**

Message Delivery



***Draft**

Message Titles

Storm Identified with Possible Impact

Check in on Family, Friends or Neighbors

Storm Update: Will Impact Eastwick

Severe Weather Expected
Rain Expected

Storm Update: Change in Path

Extended Rain Forecasted

Flood Watch

Damage Assessment

Flood Warning

Documenting Post Storm Damage

Flooding Identified in {Area}

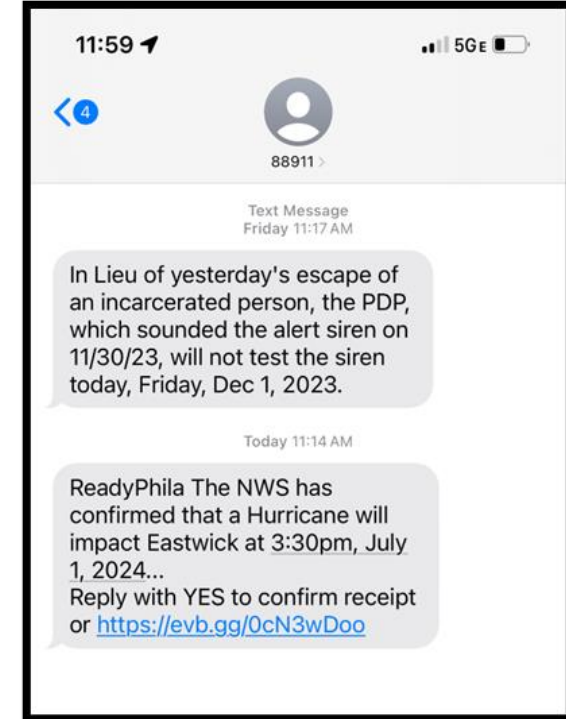
Reception Center

Prepare for Evacuation

Multi-Agency Resource Center

Evacuation Notice for {Location}

Emergency Shelter at {Location}



*Draft

Message Text



The National Weather Service has confirmed that a Severe Thunderstorm will impact Eastwick tomorrow, starting at 10am. The storm is expected to bring high winds, rain, and potential flooding. Residents who live in an area that has experienced past flooding is advised to:

- Stay alert by monitoring local news and emergency alerts
- Check in on family members, friends, or neighbors who may need assistance and make sure they are aware of the impending storm and its impacts.
- Make a plan to evacuate, if necessary. Know where you would go and how you would get there.
- Elevating belongings in yard, basement, or other commonly flooded areas
- Moving cars to higher ground
- Having a supply of food, water, and medicine
- Locate copies of critical documents and store in a safe, dry place
- Prepare as though you will lose power (locate flashlights, charge electronics)

For additional updates and weather information, visit <http://www.weather.gov/phi>

For all current NWS Watches, Warnings, or Advisories, visit <http://goo.gl/xfexUk>

For further information on emergency preparedness and updates, visit <http://www.phila.gov/ready> and Twitter [@Phillaem](https://twitter.com/Phillaem)



Eastwick Community Focus Group

What: The Office of Emergency Management (OEM) and the Office of Sustainability (OoS) will host a focus group for Eastwick residents to read and provide feedback on the Eastwick place-based messaging system templates.

When: January 2024, date and time TBD

Where: TBD

Who: Eastwick Residents

If you are interested in attending or would like to be notified when there is more information available please fill out the interest survey provided by OoS.



Sign up for ReadyPhiladelphia

Ready Philadelphia is an easy way to stay informed before, during, and after severe weather, an emergency, or special-event.

Text **READYPHILA** to **888-777**

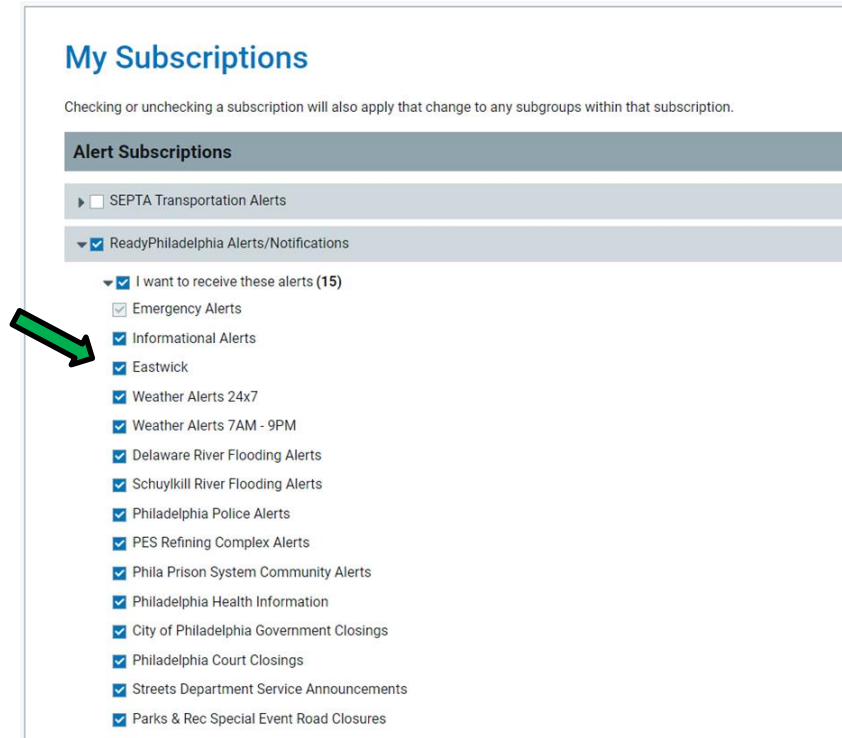
Or Scan the **QR code** to customize your free text or email alerts



PHILA.GOV/READY

ReadyPhiladelphia: Eastwick

- Opt in Eastwick group
- Update an existing application
- OEM can add existing ReadyPhiladelphia subscribers
- Existing subscribers can email warn@phila.gov to be added to the Eastwick group.



My Subscriptions

Checking or unchecking a subscription will also apply that change to any subgroups within that subscription.

Alert Subscriptions

- SEPTA Transportation Alerts
- ReadyPhiladelphia Alerts/Notifications
 - I want to receive these alerts (15)
 - Emergency Alerts
 - Informational Alerts
 - Eastwick
 - Weather Alerts 24x7
 - Weather Alerts 7AM - 9PM
 - Delaware River Flooding Alerts
 - Schuylkill River Flooding Alerts
 - Philadelphia Police Alerts
 - PES Refining Complex Alerts
 - Phila Prison System Community Alerts
 - Philadelphia Health Information
 - City of Philadelphia Government Closings
 - Philadelphia Court Closings
 - Streets Department Service Announcements
 - Parks & Rec Special Event Road Closures

Next Steps

- Eastwick community focus group January 2024
- Purchase and installation of cameras and river gauges to identify flooding





Q&A



Open Forum



Community Updates



Poll 2



Happy Holidays!





City of
Philadelphia