



**COMMISSION ON STORM WATER ISSUES
VIA VIDEOCONFERENCE
Tuesday, October 6, 2020
6:30 p.m.**

**IMPORTANT NOTICE REGARDING
PUBLIC ACCESS & PARTICIPATION**

On March 20, 2020, City Manager Gregory Rose declared a State of Emergency for the City of University City due to the COVID-19 Pandemic. Due to the ongoing efforts to limit the spread of the COVID-19 virus, the October 6, 2020 meeting will be conducted via videoconference.

Observe and/or Listen to the Meeting (your options to join the meeting are below):

Webinar via the link below:

<https://us02web.zoom.us/j/87941258159?pwd=MGVrdkptRE9Ua0d6dW5JekFMUFF4UT09>

Password: 989598

Audio Only Call

iPhone one-tap :

US: +13126266799,,87941258159# or +19292056099,,87941258159#

Or Telephone:

US: +1 312 626 6799 or +1 929 205 6099 or +1 301 715 8592 or +1 346 248 7799 or +1 669 900 6833 or +1 253 215 8782 or 888 788 0099 (Toll Free) or 877 853 5247 (Toll Free)

Webinar ID: 879 4125 8159

Citizen Participation and Public Hearing Comments:

Those who wish to provide a comment during the "Citizen Participation" portion as indicated on the agenda; may provide written comments to Sinan Alpaslan ahead of the meeting.

ALL written comments must be received **no later than 12:00 p.m. the day of the meeting**. Comments may be sent via email to: salpaslan@ucitymo.org, or mailed to the City Hall – 6801 Delmar Blvd. – Attention: Sinan Alpaslan. Such comments will be provided to Board/Commission member prior to the meeting. Comments will be made a part of the official record and made accessible to the public online following the meeting.

Please note, when submitting your comments, a **name and address must be provided**. Please also note if your comment is on an agenda or non-agenda item. If a name and address are not provided, the provided comment will not be recorded in the official record.

The City apologizes for any inconvenience the meeting format change may pose to individuals, but it is extremely important that extra measures be taken to protect employees, residents, and elected officials during these challenging times.



A G E N D A

COMMISSION ON STORM WATER ISSUES MEETING

October 6, 2020 at 6:30 p.m.

Via Zoom

1. MEETING CALLED TO ORDER
2. ROLL CALL
3. APPROVAL OF AGENDA
4. APPROVAL OF MINUTES
5. CITIZEN PARTICIPATION

Procedures for submitting comments for Citizen Participation and Public Hearings:

ALL written comments must be received **no later than 12:00 p.m. the day of the meeting.** Comments may be sent via email to: salpaslan@ucitymo.org, or mailed to the City Hall – 6801 Delmar Blvd. – Attention: Sinan Alpaslan. Such comments will be provided to the Commission on Storm Water Issues members prior to the meeting. Comments will be made a part of the official record and made accessible to the public online following the meeting *Please note, when submitting your comments, a **name and address must be provided.** Please also not if your comment is on an agenda or non-agenda item. If a name and address are not provided, the provided comment will not be recorded in the official record.*

6. NEW BUSINESS

- a. Grant funding availability:
 - i. Trash Trap project - Discussion with City of St. Louis Alderwoman Christine Ingrassia and Council Liaison Tim Cusick
- b. Update on stormwater-related complaints received and analyzed by staff:
 - i. 8444 Old Bonhomme Rd. overflow of stormwater from street into property,
 - ii. 1009 Glenside Pl. drainageway causing nuisance flow onto property.

7. OLD BUSINESS

- a. Bylaws – Update and discussion
- b. Flooding Early Warning System – Update
- c. Grant funding availability – Update on BRIC application submitted for Hafner Ct. and Westover Ct. Apartments Flood Mitigation in September and MSD Project Clear Rainscaping Large Grant application in progress
- d. Upper River Des Peres Flood Risk Reduction Study by Army Corps – Update on timeline, discussion and information on Public Scoping meeting held on September 30 (see attachments)

8. MISCELLANEOUS BUSINESS

9. COUNCIL LIAISON COMMENTS

10. ADJOURNMENT

Please call (314) 505-8572 or email salpaslan@ucitymo.org to confirm your attendance.



DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, ST. LOUIS DISTRICT
1222 SPRUCE STREET
ST. LOUIS, MISSOURI 63103-2833

September 1, 2020

Programs and Project Management Division
Project Management Branch

Mr. Gregory Rose
City of University City
City Manager
6801 Delmar Boulevard
University City, MO 63130

Dear Mr. Rose:

This letter is in reference to the River Des Peres (RdP), University City Branch General Reevaluation Report (GRR) schedule. The Water Resources Reform and Development Act (WRRDA) of 2014, Section 1002 allows for greater transparency in the notification and reporting of study milestones. As required by Section 1002, the U.S. Army Corps of Engineers District Engineer shall provide the non-federal sponsor with notification of the study milestone schedule.

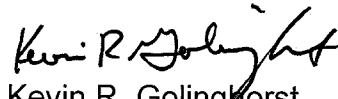
This certified letter provides the current study schedule for the following three (3) key milestones associated with the RdP GRR.

Release of the Draft Report	June 2021
District Submittal of the Final Report	September 2022
Signed Chief's Report	April 2023

Up-to-date study schedules will be posted and available to the public on the St. Louis District website. All schedules and missed deadlines will also be submitted in an annual report to Congress.

If you have any questions concerning this correspondence or would like to discuss further, please contact Ms. Susan Wilson, P.E., Deputy District Engineer for Programs and Project Management at (314) 331-8012.

Sincerely,



Kevin R. Golinghorst
Colonel, U.S. Army
District Commander

cc:

Mr. Sinan Alpaslan, University City - Director of Public Works

Mr. Jim Cole, MVD Upper District Support Team

Mr. Sharon Sartor, HQUSACE Regional Integration Team

RIVER DES PERES, UNIVERSITY CITY, MO

General Reevaluation Report

Public Scoping

Meeting

30 September 2020

6-7pm



Photo: University City Storm Water Task Force



US Army Corps
of Engineers®

Project website (with FAQs): <https://www.mvs.usace.army.mil/Missions/Programs-Project-Management/River-Des-Peres-University-City-General-Reevaluation-Report/>



Introductions & Agenda	Study Area	Study Process	Possible Solutions	Path Forward	Comments & Questions
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LOCAL SPONSOR:
City of University City, Missouri



AGENCY COORDINATION



Metropolitan St. Louis Sewer District



FEMA



EAST-WEST GATEWAY Council of Governments



SEMA



MISSOURI DEPARTMENT OF NATURAL RESOURCES



River Des Peres Watershed Coalition



Introductions
& Agenda

Study Area

Study Process

Possible
Solutions

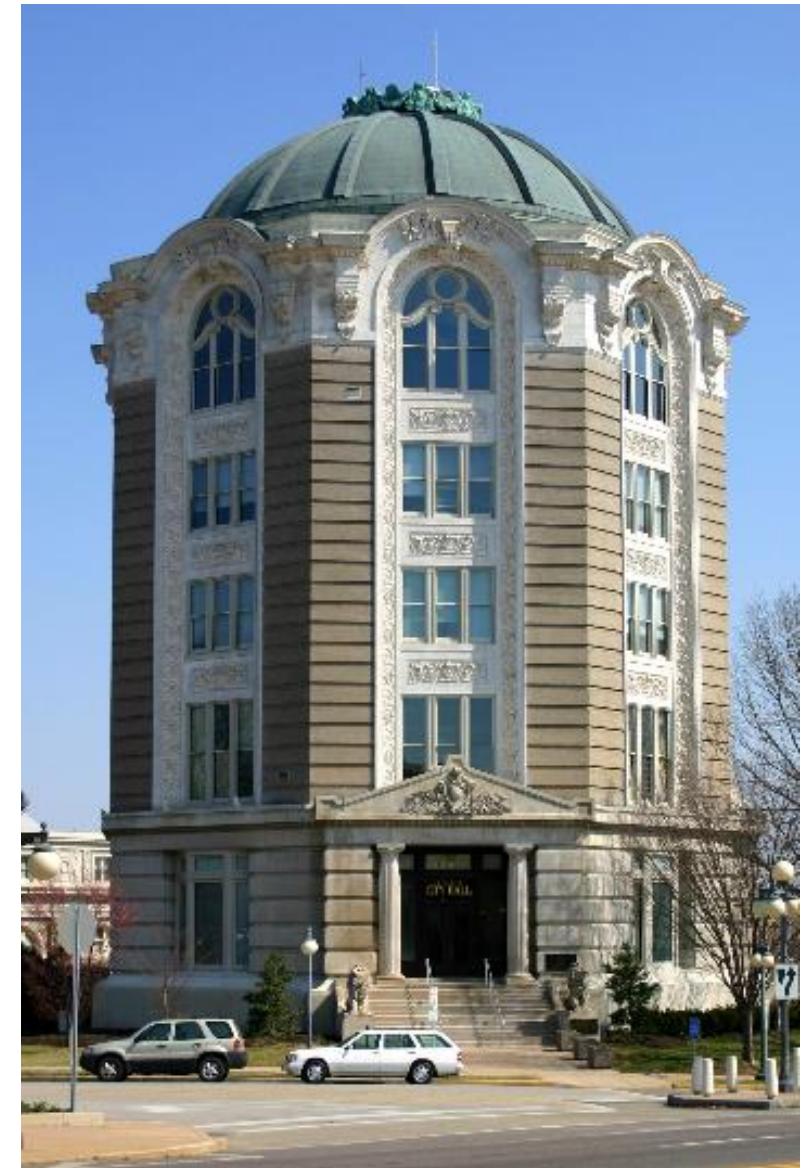
Path Forward

Comments &
Questions



University City

The Non-Federal Sponsor



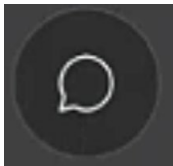


Introductions & Agenda	Study Area	Study Process	Possible Solutions	Path Forward	Comments & Questions
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AGENDA

- Introductions
- Overview of the study & the study area
- The study process: what's been done, our process, & the importance of public input
- Possible solutions
- Path forward
- Comments & questions

At any time during the meeting, you may submit a question or comment in the Chat box.



Chat

To: Everyone

Enter chat message here

Type your comment here



You may also email ucityfloodrisk@usace.army.mil during or after the meeting.



Introductions & Agenda	Study Area	Study Process	Possible Solutions	Path Forward	Comments & Questions
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STUDY AREA LOCATION

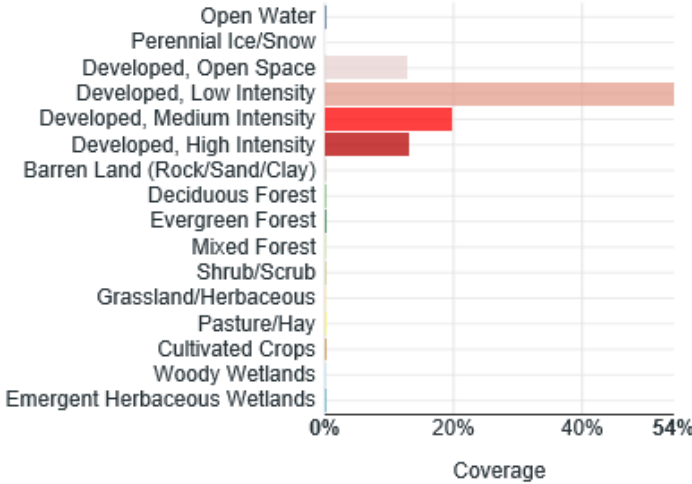


Watershed map – HUC12 (modelmywatershed.org)

- 5,930 acres watershed area

Land cover distribution

Related Layer: National Land Cover Database [Turn on](#)
 Source: National Land Cover Database (NLCD 2011)





PROJECT AREA

FEMA's National Flood Hazard Layer viewer

Legend

NFHL

Political Jurisdictions



General Structures

-- Flood Structure

X Bridge

— Dam, Weir, Jetty

— Other Structure

Flood Hazard Boundaries

— Limit Lines

— SFHA / Flood Zone Boundary

— Other Boundaries

Flood Hazard Zones

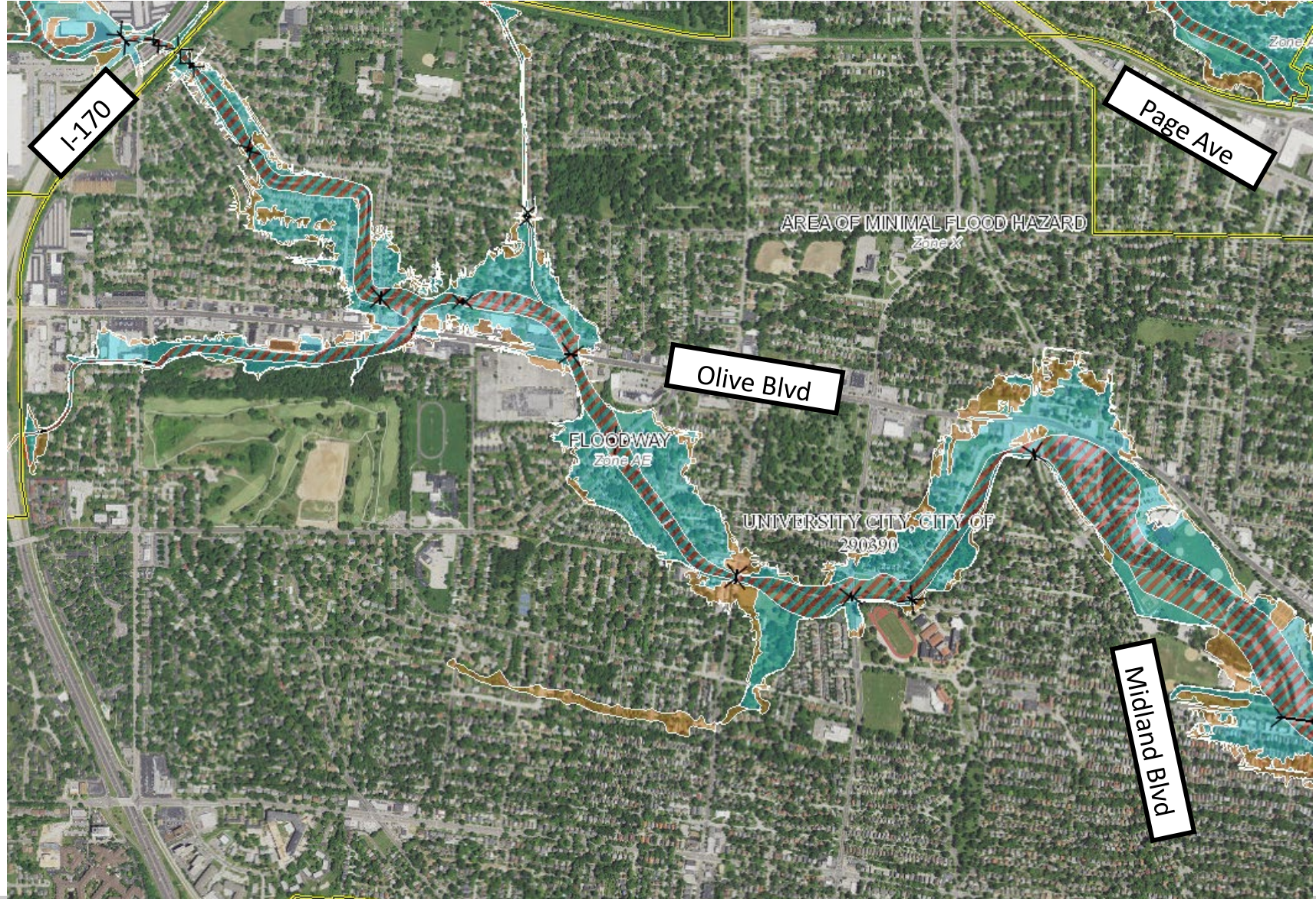
1% Annual Chance Flood Hazard

Regulatory Floodway

Special Floodway

Area of Undetermined Flood Hazard

0.2% Annual Chance Flood Hazard





Introductions & Agenda	Study Area	Study Process	Possible Solutions	Path Forward	Comments & Questions
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STUDY AUTHORITY

Congress provided project authorization in the Water Resources Development Act of 1990. Section 101(a)(17) identified projects with a Report of the Chief of Engineers for water resources development and conservation and other purposes. The authorizations were to be carried out by the Secretary substantially in accordance with the plans, and subject to the conditions, recommended in the respective reports designated in the subsection:

River Des Peres, Missouri. The project for flood control, River Des Peres, Missouri: Report of the Chief of Engineers, dated May 23, 1989, at a total cost of \$21,318,000, with an estimated first Federal cost of \$15,846,000 and an estimated first non-Federal cost of \$5,472,000.



Introductions & Agenda	Study Area	Study Process	Possible Solutions	Path Forward	Comments & Questions
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WHAT HAS ALREADY BEEN DONE?

- 2001 - USACE received Pre-Construction Engineering & Design (PED) funds; Hydrology & Hydraulics (H&H) modeling showed authorized plan transfers flood risk to downstream reach.
- 2004 - General Reevaluation (GRR) initiated.
- 2011 - Sponsor requested study suspension due to lack of funds.
- 2013 - Updated economic analysis of the buyout plan



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STUDY GOAL & OBJECTIVES

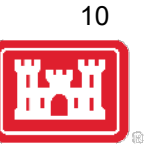
Goal: Reduce life safety risk and economic damages due to flooding of the Upper River Des Peres, and increase recreational opportunities associated with FRM features over the period of analysis.

Objectives:

- Reduce life safety risk
- Reduce economic damage
- Increase recreational opportunities

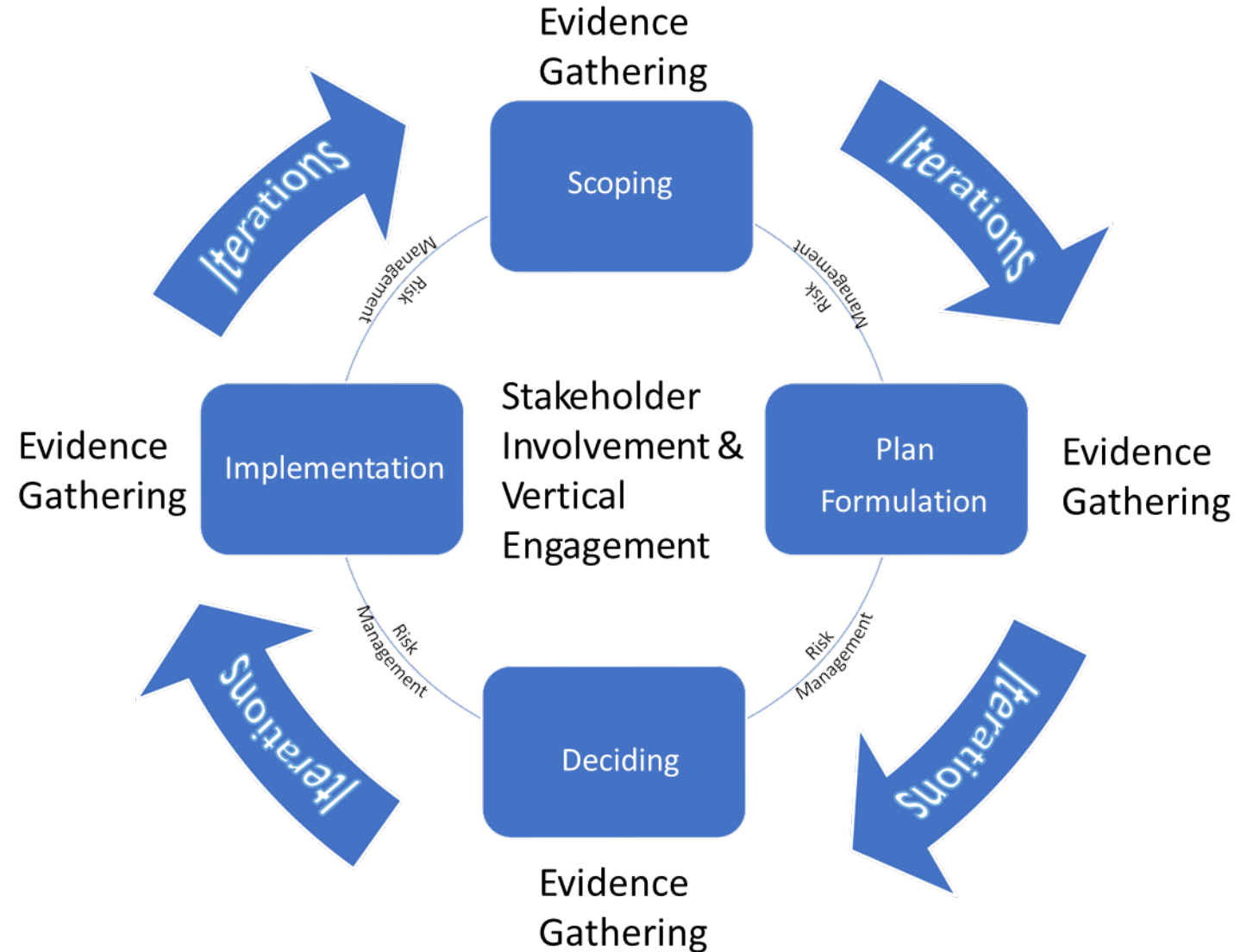


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OUR PROCESS

- Start with what's been previously studied
- Stakeholder involvement - throughout
- Gather evidence - throughout
- Analyses:
 - H&H analysis
 - Structure inventory
 - Life safety
 - Economic analysis
 - Impacts to cultural resources
- Create several alternatives
- Select Plan





THE IMPORTANCE OF PUBLIC INPUT

- As part of the scoping process, we need your input on:

Significant issues/impacts to be addressed in the Environmental Assessment

Potential project features/alternatives

Data sources

Issues that are not significant and need not be addressed

- People living in the affected communities have the best first-hand knowledge of flooding and flood impacts
- We don't know what we don't know



Flooding in University City, 2014



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RECENT FLOODING IN THE STUDY AREA

2008



2011

2013

2014

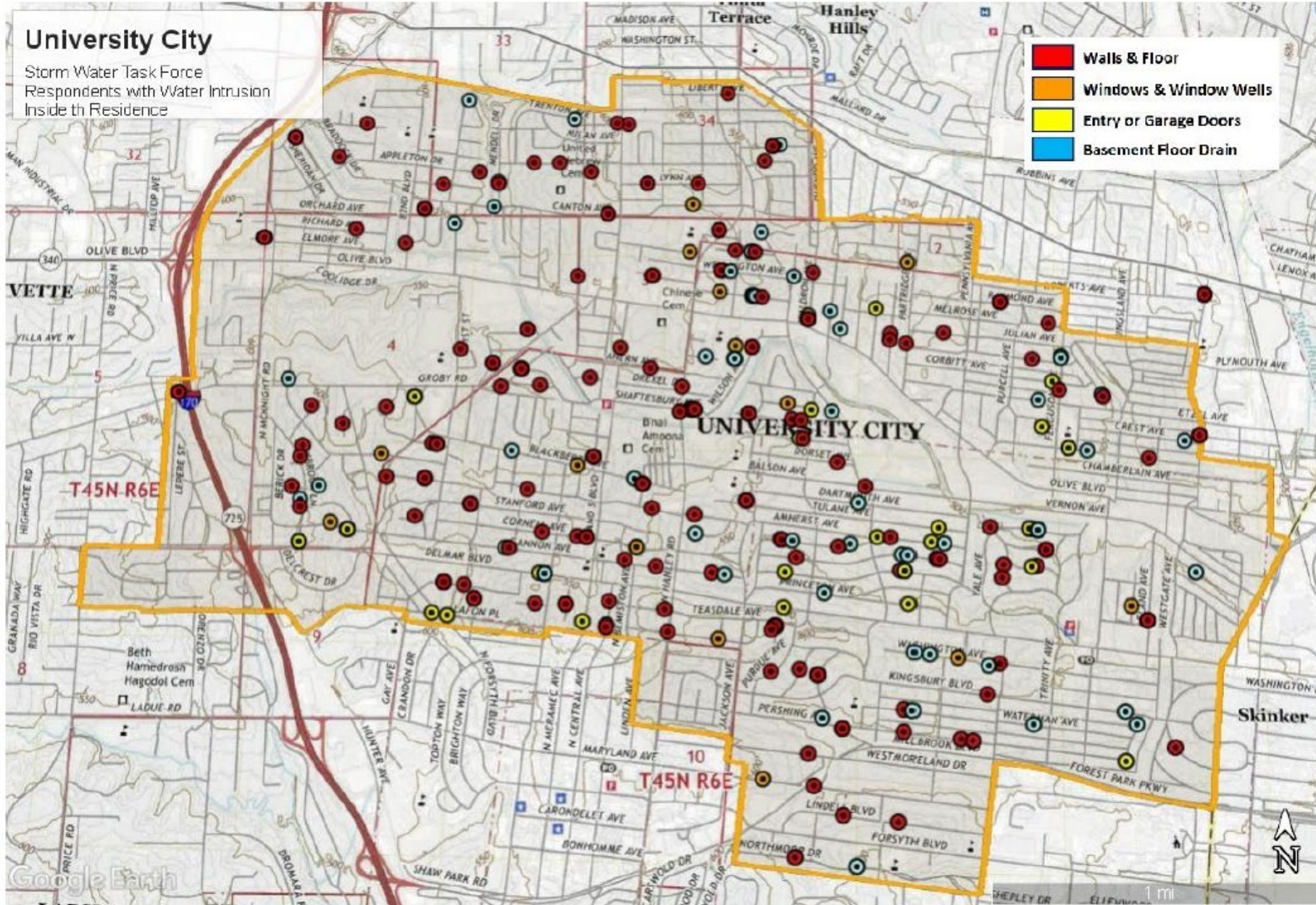
2019

2020





STORM WATER TASK FORCE SURVEY (2018)



From 2019 Storm Water Task Force Report

Respondents with water intrusion inside the residence

Task Force members followed up on the survey with 20 site visits



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EXISTING CONDITIONS: POPULATION & STRUCTURES

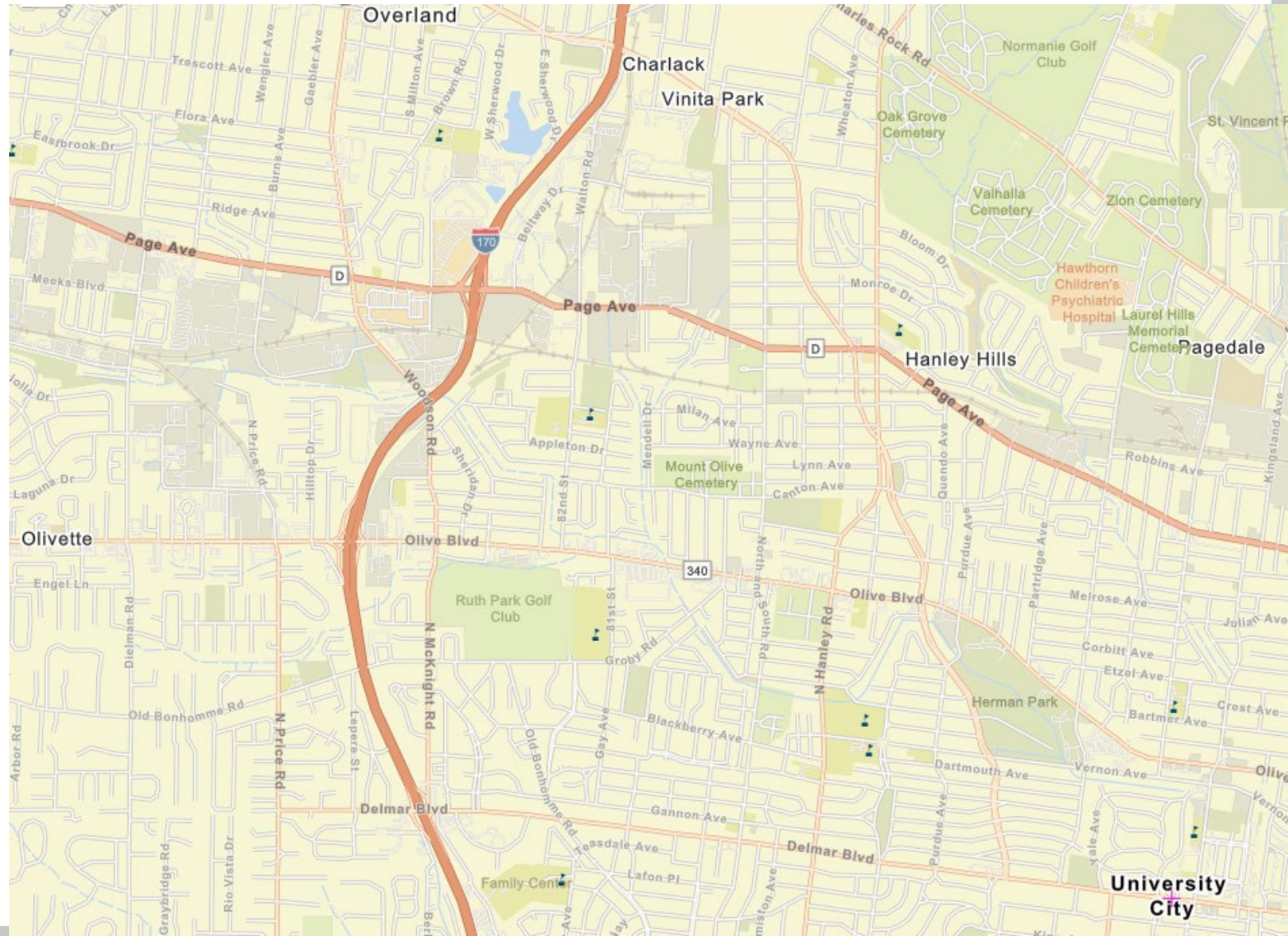
Seven municipalities in the watershed:
University City, Wellston, Pagedale, Hanley Hills, Vinita Park, Overland, Olivette

Approximately 10% population decline in University City in past 20 years

Minority population of University City is 52% (state average is 20%)

In the 100-year floodplain in the authorized project area are ~1,100 structures, of which ~1,000 are residential

Four critical infrastructure locations in the 500-year floodplain (3 schools & a fire department/EMS)





EXISTING CONDITIONS: CULTURAL RESOURCES

Cultural: Two areas of concern within the 10-year floodplain in the project area in the SHPO database: University Heights Subdivision Number 1, and University City Education District.



Photo: St. Louis Post Dispatch

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FLOOD RISK REDUCTION MEASURES

Structural

- Detention
- Channel modifications
- Bridge modifications

Non-Structural

- Floodproofing (wet)
- Elevating structures in-place
- Buyouts or permanent relocations
- Flood forecasting/warning system
- Risk communication/education
- Ordinances/regulations

Nature-Based

- Green infrastructure
- Floodplain restoration
- Channel restoration
- Watershed restoration/conservation





CHANNEL MODIFICATION (STRUCTURAL)



River Des Peres behind Wilson Avenue, 2009



Photo: St Louis Post Dispatch



DETENTION / RETENTION (STRUCTURAL)



Image: FOTH



LEVEES/FLOODWALLS (STRUCTURAL)



Photo: USACE



Photo: USACE

FLOODPROOFING (NON-STRUCTURAL)

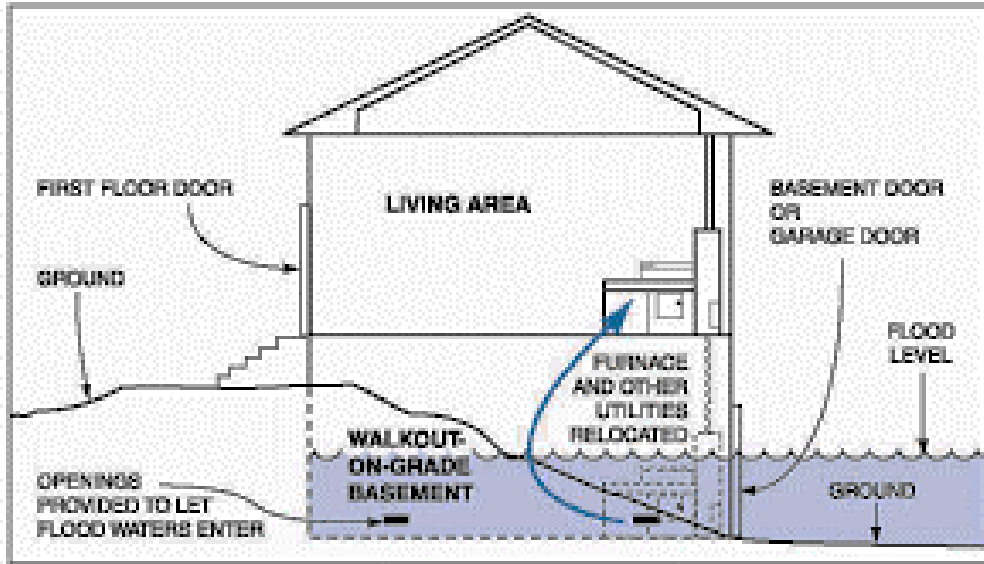
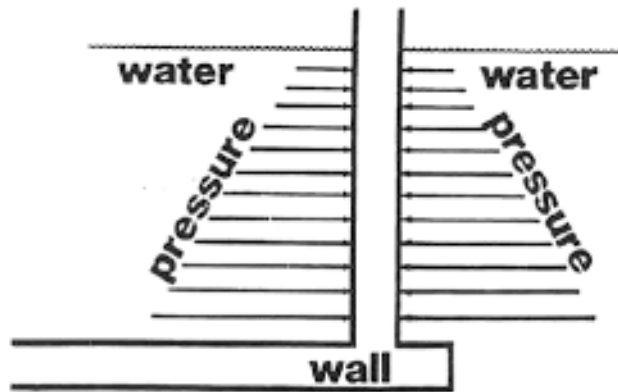


Image: FEMA



WET FLOODPROOFING

- Intentionally flooded
- non-damageable activities

Image: FEMA



Image: USACE



ELEVATION (NON-STRUCTURAL)



Images: USACE



STRUCTURE RELOCATION (NON-STRUCTURAL)



RELOCATION

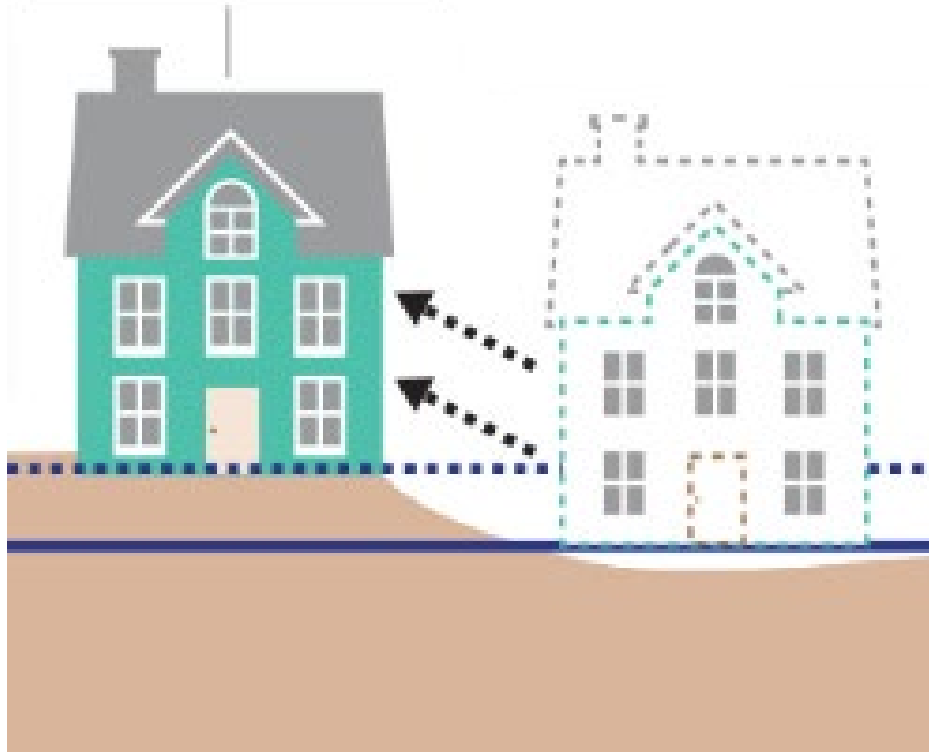


Image: USACE



Photo: realtor.com



ACQUISITION/BUYOUTS (NON-STRUCTURAL)



Images: USACE



FLOOD WARNING SYSTEM (NON-STRUCTURAL)



Photo: Radio NB






NATURAL AND NATURE-BASED



Image: USACE (ERDC – Engineering With Nature initiative)



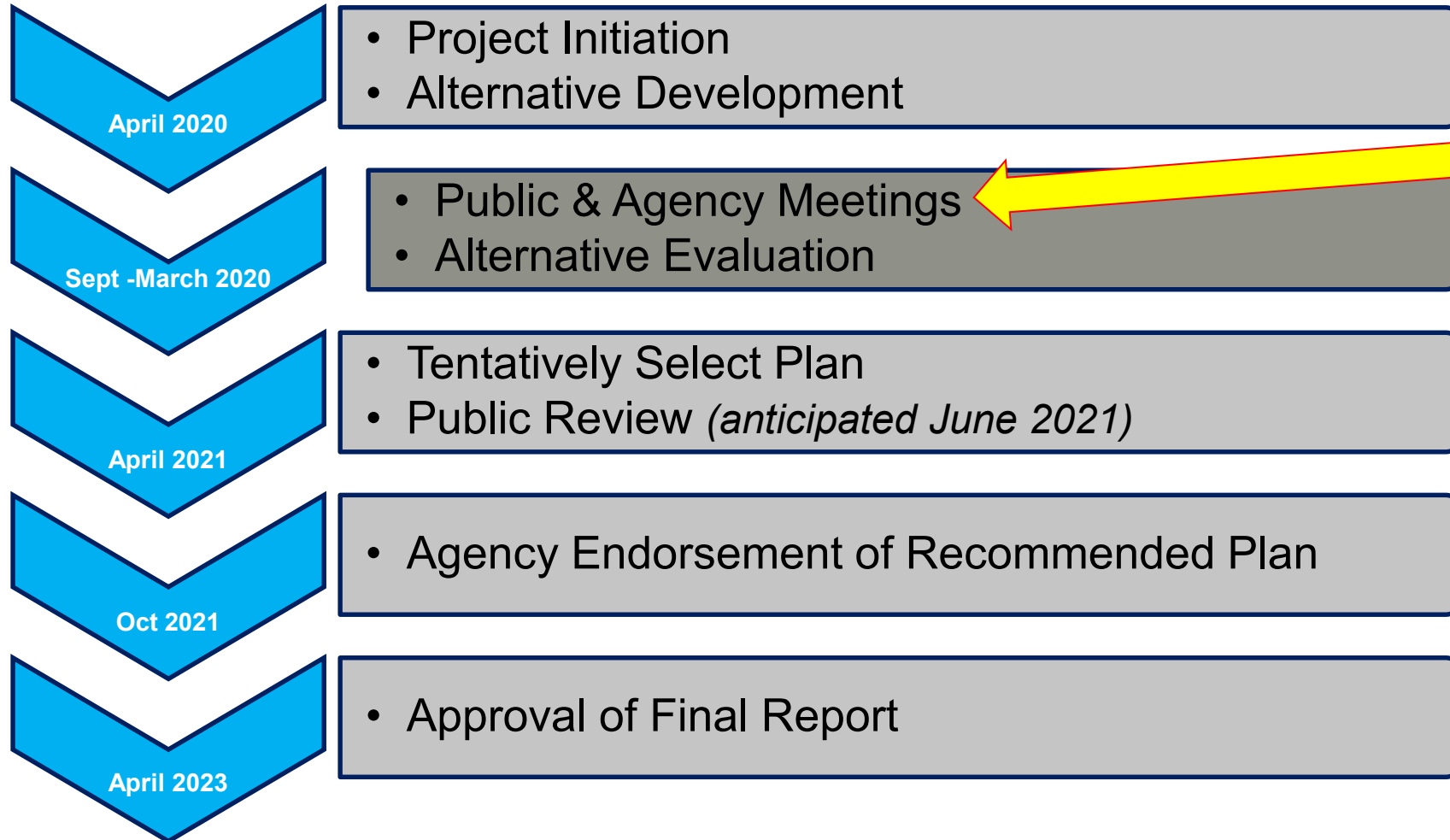
-  ALIGNMENT A
-  ALIGNMENT B
-  NEIGHBORHOOD CONNECTIONS





Introductions & Agenda	Study Area	Study Process	Possible Solutions	Path Forward	Comments & Questions
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OVERALL STUDY TIMELINE

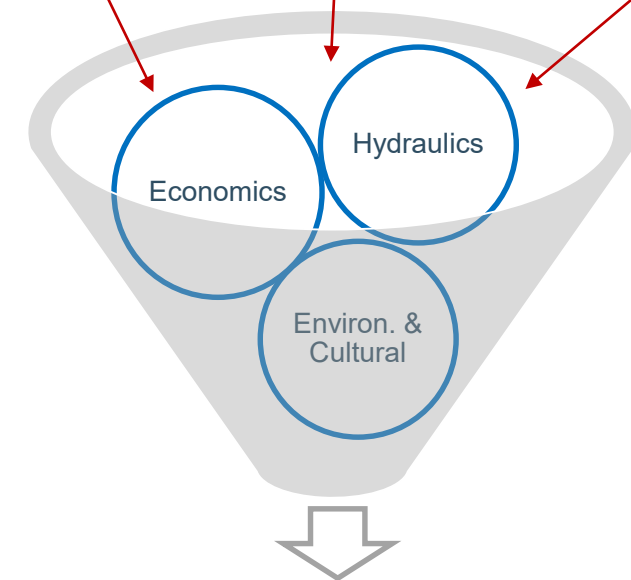
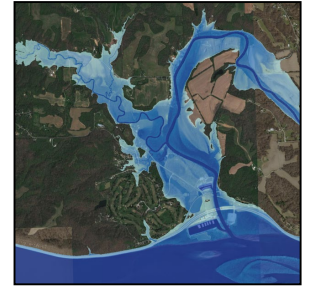
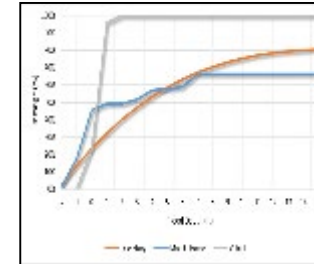


WE ARE HERE! ←

Introductions & Agenda	Study Area	Study Process	Possible Solutions	Path Forward	Comments & Questions
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PATH FORWARD

- H&H
 - Inundation mapping using HEC-RAS
- Economics
 - Structure inventory updates, HEC-FDA
 - LifeSim
 - Economic benefit quantification
 - Environmental Justice
- Environmental
 - Prepare NEPA document, publish draft Environmental Assessment
 - Determine quantity and cost of mitigation
- Cultural



Tentatively Selected Plan



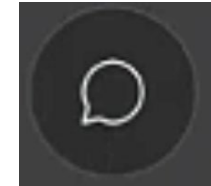
Introductions & Agenda	Study Area	Study Process	Possible Solutions	Path Forward	Comments & Questions
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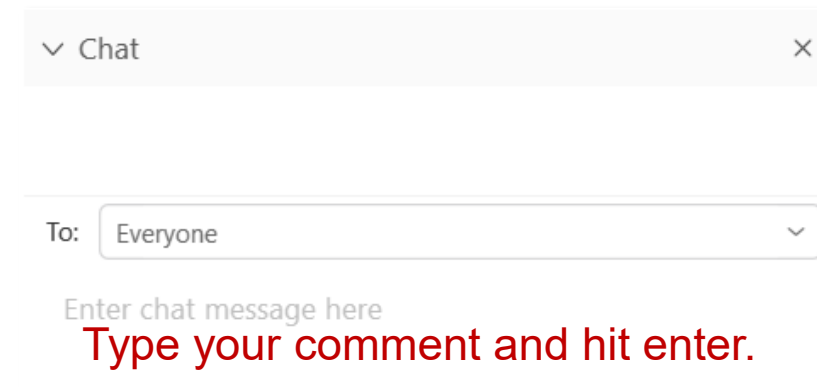
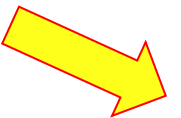
WHAT INFORMATION ARE WE LOOKING FOR FROM YOU?

1. How many flood events have impacted you? What flood event caused the most damage in your neighborhood? How quickly did the flooding happen?
2. How has flooding impacted you and your neighborhood? Eg harm to people, roads closed, businesses closed. How long did cleanup/recovery take? Were you displaced from your home? Was water in your basement only, or in your living space? Did the flooding come from the creek, or from a sewer backup?
3. Do you have **photos** of the flooding you'd like to share? Eg flooding, flood cleanup, water level line on a building.
4. Are there solutions (risk reduction measures) that you would like the planning team to evaluate to address the problems?
5. Are there studies, reports, or data that you know of that could help the study?
6. Anything else you would like the planning team to know!

Click the Chat button to open the Chat box



The box will open on the bottom right of your screen. It looks like this:





Introductions & Agenda	Study Area	Study Process	Possible Solutions	Path Forward	Comments & Questions
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COMMENTS & QUESTIONS

We will now take comments and questions via audio AND in the chat box.
PRESS *6 TO TAKE YOURSELF OFF MUTE (and check your phone isn't muted).

Comments or information can also be provided to:

ucityfloodrisk@usace.army.mil

Or by mail to:

U.S. Army Corps of Engineers, St. Louis District
C/O Mr. Matthew Jones
1222 Spruce Street
St. Louis, MO 63103

Project website: <https://www.mvs.usace.army.mil/Missions/Programs-Project-Management/River-Des-Peres-University-City-General-Reevaluation-Report/>



Thank You for Coming!