

Environmental Assessment Determinations and
Compliance Findings for HUD-assisted Projects

24 CFR Part 58

South Cypress Creek Watershed and West Junction
Neighborhood Redevelopment

National Disaster Resiliency Grant

B-13-US-47002

Shelby County Government

July 2019

South Cypress Creek Watershed and West Junction Neighborhood Redevelopment

National Disaster Resiliency Grant

B-13-US-47002

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**U.S. Department of Housing and Urban
Development**

451 Seventh Street, SW
Washington, DC 20410
www.hud.gov

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Environmental Assessment Determinations and Compliance Findings for HUD-assisted Projects 24 CFR Part 58

Project Information

Project Name: South Cypress Creek Watershed and West Junction Neighborhood Redevelopment

Responsible Entity: Shelby County Government

Grant Recipient (if different than Responsible Entity):

State/Local Identifier: TN

Preparer: Shelby County Government

Certifying Officer Name and Title: Lee Harris, Mayor

Grant Recipient (if different than Responsible Entity):

Consultant (if applicable): Powers Hill Design, LLC

Direct Comments to: Division of Planning and Development
Attention: Jim Vazquez, Administrator
Office of Resilience
125 N. Main Street, Room 468
Memphis, TN 38103
(901) 636-7170

Project Location:

The proposed project location is in the South Cypress Creek drainage basin just south of Interstate 55. The stream restoration activities will be adjacent to the existing Cypress Creek, from north of W. Mitchell Road to east of Weaver Road. The Neighborhood Redevelopment will be conducted in the portion of the West Junction Neighborhood south of W. Peebles Road, west of Ford Road, north of W. Mitchell Road and east of Weaver Road.

Description of the Proposed Project [24 CFR 50.12 & 58.32; 40 CFR 1508.25]:

The Proposed Project includes watershed restoration within the South Cypress Creek Basin and redevelopment in the West Junction Neighborhood. The South Cypress Creek Restoration project will be adjacent to the existing Cypress Creek, from north of W. Mitchell Road to east of Weaver Road. The proposed project will expand stormwater capacity by removing obstructions, stabilizing the stream banks, and installing stormwater management facilities. These treatments will provide storage and detention of peak flows to reduce the flood stage and adjacent properties' risk of flooding. In addition to preserving existing wetlands, the proposed project will also expand existing or create new water receiving landscapes, i.e., constructed wetlands, rain gardens, bioswales and/or other natural stormwater Best Management Practices (BMP's), landforms, green open spaces, parks, and multi-purpose recreational trails that connect to the surrounding community. These elements will be designed to reduce the flood risk for the adjacent properties most susceptible to flooding within the project area, while also enhancing both the water quality and habitat of South Cypress Creek and the adjacent riparian buffer and floodplain areas.

The Neighborhood Redevelopment will be conducted in the portion of the West Junction Neighborhood south of W. Peebles Road, west of Ford Road, north of W. Mitchell Road and east of Weaver Road. The Neighborhood Redevelopment activities will include a property acquisition program to purchase existing at-risk properties located below elevation 231.00 within the floodplain in the West Junction neighborhood. The program proposes incentives to encourage residents to relocate within the neighborhood. The properties acquired under the program will have permanent restrictions included in the property deed to preserve the floodplain from future development. The redevelopment effort also includes the development of strategies for community redevelopment projects such as allowing residents the opportunity to expand their existing properties by acquiring adjacent vacant lots as well as reclaiming vacant lots to introduce uses like local food production, community park space, stormwater retention, and expansion of natural areas. An additional goal is to seek to minimize municipal maintenance costs and reestablish vacant and delinquent properties to be tax revenue generating.

Statement of Purpose and Need for the Proposal [40 CFR 1508.9(b)]:

This activity focuses on helping communities address unmet recovery needs from the 2011 flood and preparing the community to weather future storms better than in prior flooding events. Without the proposed project activity in the South Cypress Creek area, a 100-year flood event would be estimated to cause \$2.2 million dollars of property damage and, if trends continue along the same trajectory since the 2011 flooding, that damage will result in additional vacant properties.

Existing Conditions and Trends [24 CFR 58.40(a)]:

Currently the proposed project area is flood prone. The area directly adjacent to South Cypress Creek is wooded, undeveloped land. Surrounding the creek is a mix of residential, commercial and industrial uses. Majority of the homes west of Anderson Road in the West Junction Neighborhood are in the floodplain and will continue to experience flood water inundation if conditions remain the same. Homes on the outskirts of the floodplain are experiencing this same flooding.

Funding Information

| Grant Number | HUD Program | Funding Amount |
|---------------------|------------------------------------|-----------------------|
| B-13-US-470002 | National Disaster Resiliency Grant | \$8,988,097 |
| | | |

Estimated Total HUD Funded Amount: \$ 8,988,097

Estimated Total Project Cost (HUD and non-HUD funds) [24 CFR 58.32(d)]: \$ 10,588,097

Compliance with 24 CFR 50.4, 58.5, and 58.6 Laws and Authorities

Record below the compliance or conformance determinations for each statute, executive order, or regulation. Provide credible, traceable, and supportive source documentation for each authority. Where applicable, complete the necessary reviews or consultations and obtain or note applicable permits of approvals. Clearly note citations, dates/names/titles of contacts, and page references. Attach additional documentation as appropriate.

| Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6 | Are formal compliance steps or mitigation required? | Compliance determinations |
|---|--|---|
| STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 50.4 and 58.6 | | |
| Airport Hazards 24 CFR Part 51 Subpart D | Yes No <input type="checkbox"/> <input checked="" type="checkbox"/> | <i>In Compliance.</i> Supplemental documentation in appendix shows the proposed project is not within 2,500 feet of a civilian airport or 15,000 of a military airport. |
| Coastal Barrier Resources Coastal Barrier Resources Act, as amended by the Coastal Barrier Improvement Act of 1990 [16 USC 3501] | Yes No <input type="checkbox"/> <input checked="" type="checkbox"/> | <i>In Compliance.</i> No coastal zones are in the state, per Nat'l Oceanic & Atmospheric Administration. |
| Flood Insurance Flood Disaster Protection Act of 1973 and National Flood Insurance Reform Act of 1994 [42 USC 4001-4128 and 42 USC 5154a] | Yes No <input type="checkbox"/> <input checked="" type="checkbox"/> | <i>In Compliance.</i> The City is a participating community in the national flood insurance program. Also, the project proposes activities to avoid, alleviate and/or mitigate possible flooding. |

| | | |
|---|---|---|
| Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6 | Are formal compliance steps or mitigation required? | Compliance determinations |
| STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 50.4 & 58.5 | | |
| Clean Air Clean Air Act, as amended, particularly section 176(c) & (d); 40 CFR Parts 6, 51, 93 | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | <i>In Compliance.</i> The project area is within a maintenance area for Ozone. The proposed project will not negatively contribute to the air quality. |
| Coastal Zone Management Coastal Zone Management Act, sections 307(c) & (d) | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | <i>In Compliance.</i> No coastal zones are in the state, per Nat'l Oceanic & Atmospheric Administration. |
| Contamination and Toxic Substances 24 CFR Part 50.3(i) & 58.5(i)(2) | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | <i>In Compliance.</i> The proposed project should not have any impact concerning risk of contamination from toxic substances. |
| Endangered Species Endangered Species Act of 1973, particularly section 7; 50 CFR Part 402 | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | <i>In Compliance.</i> The USFWS does not anticipate adverse impacts to endangered species as a result of this project. |
| Explosive and Flammable Hazards 24 CFR Part 51 Subpart C | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | <i>In Compliance.</i> Neither EPA data nor visual inspection of the site and properties in proximity indicate any presence of risk from explosive / flammable operations. |
| Farmlands Protection Farmland Protection Policy Act of 1981, particularly sections 1504(b) and 1541; 7 CFR Part 658 | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | <i>In Compliance.</i> The proposed project site is urban in nature within the municipal boundaries of the City of Memphis, TN. Therefore, there is no impact on farmland. |
| Floodplain Management Executive Order 11988, particularly section 2(a); 24 CFR Part 55 | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | <i>In Compliance</i> The proposed project site is located within a floodplain, thereby necessitating the program-required "8-Step Process." |

| | | |
|--|--|---|
| Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6 | Are formal compliance steps or mitigation required? | Compliance determinations |
| Historic Preservation National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800 | Yes No <input type="checkbox"/> <input checked="" type="checkbox"/> | <i>In Compliance.</i> Tribal letters sent and Tribal responses received; SHPO response received indicating “no National Register of Historic Places listed or eligible properties affected by this undertaking.” |
| Noise Abatement and Control Noise Control Act of 1972, as amended by the Quiet Communities Act of 1978; 24 CFR Part 51 Subpart B | Yes No <input type="checkbox"/> <input checked="" type="checkbox"/> | <i>In Compliance.</i> The proposed project will not include noise sensitive use. |
| Sole Source Aquifers Safe Drinking Water Act of 1974, as amended, particularly section 1424(e); 40 CFR Part 149 | Yes No <input type="checkbox"/> <input checked="" type="checkbox"/> | <i>In Compliance.</i> There are no sole source aquifers in the area of the proposed project. |
| Wetlands Protection Executive Order 11990, particularly sections 2 and 5 | Yes No <input type="checkbox"/> <input checked="" type="checkbox"/> | <i>In Compliance.</i> The proposed project site is located within wetlands, thereby necessitating the program required “8-Step Process.” |
| Wild and Scenic Rivers Wild and Scenic Rivers Act of 1968, particularly section 7(b) and (c) | Yes No <input type="checkbox"/> <input checked="" type="checkbox"/> | <i>In Compliance.</i> There are no designated scenic rivers in Shelby County, TN. |
| ENVIRONMENTAL JUSTICE | | |
| Environmental Justice Executive Order 12898 | Yes No <input type="checkbox"/> <input checked="" type="checkbox"/> | <i>In Compliance.</i> Consistent with 2010-2014 Census data contained within the appendix, it is (i.e., to qualify the community as predominately low-to moderate-income to be eligible for CDBG Program assistance) documented 97.0% of the population is African American (99% is minority population). Therefore, the proposed project will not result in any civil rights impact on minorities. |

Environmental Assessment Factors [24 CFR 58.40; Ref. 40 CFR 1508.8 & 1508.27] Recorded below is the qualitative and quantitative significance of the effects of the proposal on the character, features and resources of the project area. Each factor has been evaluated and documented, as appropriate and in proportion to its relevance to the proposed action. Verifiable source documentation has been provided and described in support of each determination, as appropriate. Credible, traceable and supportive source documentation for each authority has been provided. Where applicable, the necessary reviews or consultations have been completed and applicable permits of approvals have been obtained or noted. Citations, dates/names/titles of contacts, and page references are clear. Additional documentation is attached, as appropriate. **All conditions, attenuation or mitigation measures have been clearly identified.**

Impact Codes: Use an impact code from the following list to make the determination of impact for each factor.

- (1) Minor beneficial impact
- (2) No impact anticipated
- (3) Minor Adverse Impact – May require mitigation
- (4) Significant or potentially significant impact requiring avoidance or modification which may require an Environmental Impact Statement

| Environmental Assessment Factor | Impact Code | Impact Evaluation |
|--|-------------|--|
| LAND DEVELOPMENT | | |
| Conformance with Plans / Compatible Land Use and Zoning / Scale and Urban Design | 1 | The proposed project conforms in accordance with the land use principles as it improves existing conditions and the quality of life for the residents by the creation of parks and greenspace. |
| Soil Suitability/ Slope/ Erosion/ Drainage/ Storm Water Runoff | 1 | The proposed project intends to increase area for stormwater runoff storage to mitigate flooding. |
| Hazards and Nuisances including Site Safety and Noise | 1 | The proposed project will not create hazards or nuisances. The proposed project will not include noise sensitive uses; the improvements will not contribute to additional noise above what already exists. |
| Energy Consumption | 1 | Due to the nature of the project, there are no known impact issues concerned with energy conservation. |

| Environmental Assessment Factor | Impact Code | Impact Evaluation |
|---|-------------|---|
| SOCIOECONOMIC | | |
| Employment and Income Patterns | 2 | The proposed project will not impact employment or income patterns. |
| Demographic Character Changes, Displacement | 1 | The proposed project will relocate residents, on a voluntary basis, inhabiting structures within historic flood elevations. Residents will be encouraged to relocate within the project area. No demographic character changes are therefore anticipated. |

| Environmental Assessment Factor | Impact Code | Impact Evaluation |
|--|-------------|---|
| COMMUNITY FACILITIES AND SERVICES | | |
| Educational and Cultural Facilities | 2 | Due to the nature of the project, there will be no impact concerned with educational and cultural facilities. |
| Commercial Facilities | 2 | Due to the nature of the project, there will be no impact concerned with commercial facilities. |
| Health Care and Social Services | 2 | Due to the nature of the project, there will be no impact concerned with health care and social services. |
| Solid Waste Disposal / Recycling | 2 | Due to the nature of the project, there will be no impact concerned with solid waste disposal and recycling. |
| Waste Water / Sanitary Sewers | 2 | Due to the nature of the project, there will be no impact concerned with waste water and sanitary sewers. |
| Water Supply | 2 | Due to the nature of the project, there will be no impact concerned with water supply. |
| Public Safety - Police, Fire and Emergency Medical | 2 | Due to the nature of the project, there will be no impact concerned with public safety, police, fire and emergency medical services. |
| Parks, Open Space and Recreation | 1 | The proposed project will create more recreational greenspace and open space in blighted and flood prone areas. |
| Transportation and Accessibility | 1 | Due to the nature of the project, there will be no impact concerned with transportation and accessibility. Park improvements, however, will allow for increased resident access to South Cypress Creek. |

| Environmental Assessment Factor | Impact Code | Impact Evaluation |
|--|-------------|---|
| NATURAL FEATURES | | |
| Unique Natural Features, Water Resources | 1 | The proposed project will enhance the natural features and restore the water resources that currently exists. |
| Vegetation, Wildlife | 1 | The proposed project will create new and improved habitats for naturally occurring vegetation and wildlife. |
| Other Factors | | |

Additional Studies Performed:

Cypress Creek Bat Habitat Report- Brophy Heineke & Associates, February 26, 2018

Hydrologic Determination – Brophy-Heineke & Associates, January 2018
Concurrence from TDEQ 4.17.18

Field Inspection (Date and completed by):

USACE & Jennifer Morrison, QHP, December 2017

List of Sources, Agencies and Persons Consulted [40 CFR 1508.9(b)]:

Tennessee Department of Environment and Conservation (TDEC)
U.S. Army Corps of Engineers (USACE)
U. S. Fish and Wildlife Service (USFWS)
State Historic Preservation Office (SHPO) of the TN Historical Commission

List of Permits Obtained:

Hydrologic Determination #QHP1805.004 4.17.2018
Preliminary Jurisdictional Determination 8.29.2018 File No. MVM-2018-300

Public Outreach [24 CFR 50.23 & 58.43]:

Public Meetings were held at Michell High School Cafeteria, 658 W. Mitchell Road on the following dates:

September 28, 2017
December 5, 2017
June 14, 2018
July 26, 2018

Cumulative Impact Analysis [24 CFR 58.32]:

This document evaluated the impact of all proposed activities planned for this project as part of the NEPA process.

Alternatives [24 CFR 58.40(e); 40 CFR 1508.9]

South Cypress Creek:

The proposed project area in the South Cypress Creek Restoration Project is in the floodplain. There are no viable alternatives that can satisfy the grant and project requirements to locate activities outside of the floodplain. The proposed project area for this activity will have a permanent use for flood control, wetland protection, park and open space. There will be permanent restrictions placed on the property to ensure the floodplain and wetland is protected from future development.

Several Alternatives for the South Cypress Creek Restoration were evaluated to satisfy the project requirements and minimize any impacts on the floodplain and wetlands:

- A. Option 1
Building a levee along South Cypress Creek would protect residents and allow the effective floodplain to be revised.
- B. Option 2
Building a berm would provide more protection than existing but could not guarantee residents would be protected from flooding, nor would it change the effective floodplain.
- C. Option 3
By adjusting the creek bed elevation and slightly altering the alignment, flooding risks and negative impacts to the natural environment will be minimized.

Alternative Evaluation Summary:

The South Cypress Creek Design Team carefully evaluated all options based on factors such as constructability, cost, and impacts. Alternative options investigated were centered around a more engineering-heavy approach.

In summary, the Levee and Berm Options were not viable options due to several negative impacts:

1. Construction costs were significantly higher.
2. Increased maintenance of infrastructure and pumping requirements during flood events, etc., including costs to maintain structures.
3. Disruption of hydrology on the landside causing potential localized flooding. Flap gate valves would need to be installed.
4. The construction of the berm or levee still had significant impacts on the adjacent neighborhood.

5. Berm/Levee physically and visually disconnect the adjacent areas from the Creek which has the potential to be a neighborhood amenity.
6. If property owners decided not to sell, the alignment and viability of a berm or levee could be impacted.

A detailed wetland study and report was completed by Brophy-Heineke & Associates to identify existing wetlands and water courses that would be affected by these proposed improvements. The proposed work and associated grading were adjusted to avoid impacts to existing wetlands.

The main reason for selecting the Design Option 3 was because it minimized flooding risks while avoiding wetlands.

West Junction Neighborhood:

A main objective of the West Junction Neighborhood Redevelopment Project is to relocate neighborhood residents most vulnerable to the riverine flooding of South Cypress Creek. These actions are proposed through a voluntary buyout program. The County and Design Team used the 2011 flood elevation plus 1', or elevation 231', to determine which properties would be evaluated, per each structure's finished floor elevation, for the volunteer buyout program. Properties were also considered for buy-out if directly adjacent to the designated 231' elevation. The property acquired through the voluntary buyout program will have permanent restrictions to preserve the floodplain from future development. The property will be dedicated for permanent use of flood control by remaining an open space or being utilized as park land. This activity meets the exceptions at 24 CFR 55.12.c. The lot redevelopment and community redevelopment activities proposed with the West Junction Neighborhood redevelopment project will not be conducted within a floodplain or wetland. Redevelopment will occur on vacant lots within the project's boundaries

No Action Alternative [24 CFR 58.40(e)]:

West Junction neighborhood:

The proposed project area is flood prone. The area directly adjacent to South Cypress is wooded, undeveloped land. Surrounding the creek is a mix of residential, commercial, and industrial uses. Majority of the homes west of Anderson Road in the West Junction Neighborhood are in the floodplain and will continue to experience flood water inundation if conditions remain the same. Homes on the outskirts of the floodplain are experiencing this same flooding. Therefore, the No Action Alternative will continue to have a negative impact on the project area.

Summary of Findings and Conclusions:

Based on the evaluation of the above factors related to this project, it will have no negative impacts on the quality of the human environment.

Mitigation Measures and Conditions [40 CFR 1505.2(c)]

Summarize below all mitigation measures adopted by the Responsible Entity to reduce, avoid, or eliminate adverse environmental impacts and to avoid non-compliance or non-conformance with the above-listed authorities and factors. These measures/conditions must be incorporated into project contracts, development agreements, and other relevant documents. The staff responsible for implementing and monitoring mitigation measures should be clearly identified in the mitigation plan.

| Law, Authority, or Factor | Mitigation Measure |
|---------------------------|--------------------|
| | |
| | |
| | |
| | |

Determination:

☒ **Finding of No Significant Impact** [24 CFR 58.40(g)(1); 40 CFR 1508.27]
The project will not result in a significant impact on the quality of the human environment.

☐ **Finding of Significant Impact** [24 CFR 58.40(g)(2); 40 CFR 1508.27]
The project may significantly affect the quality of the human environment.

Preparer Signature: Steven Hill Date: 7/24/19

Name/Title/Organization: Steven Hill, P.E., Principal

Powers Hill Design, LLC

Certifying Officer Signature: Lee Harris Date: 8/20/19

Name/Title: Lee Harris / County Mayor

This original, signed document and related supporting material must be retained on file by the Responsible Entity in an Environmental Review Record (ERR) for the activity/project (ref: 24 CFR Part 58.38) and in accordance with recordkeeping requirements for the HUD program(s).

Attachment 1 – Project Maps

South Cypress Creek Watershed and West Junction
Neighborhood Redevelopment



Notes

1. Coordinate System: NAD 1983 StatePlane Tennessee FIPS 4100 Feet
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2013.
3. Orthoimagery © First Base Solutions, 20xx.

Project Limits

CCRS

Stream

----- Wet-Weather Conveyance



Project Location

Shelby County, TN

Client/Project

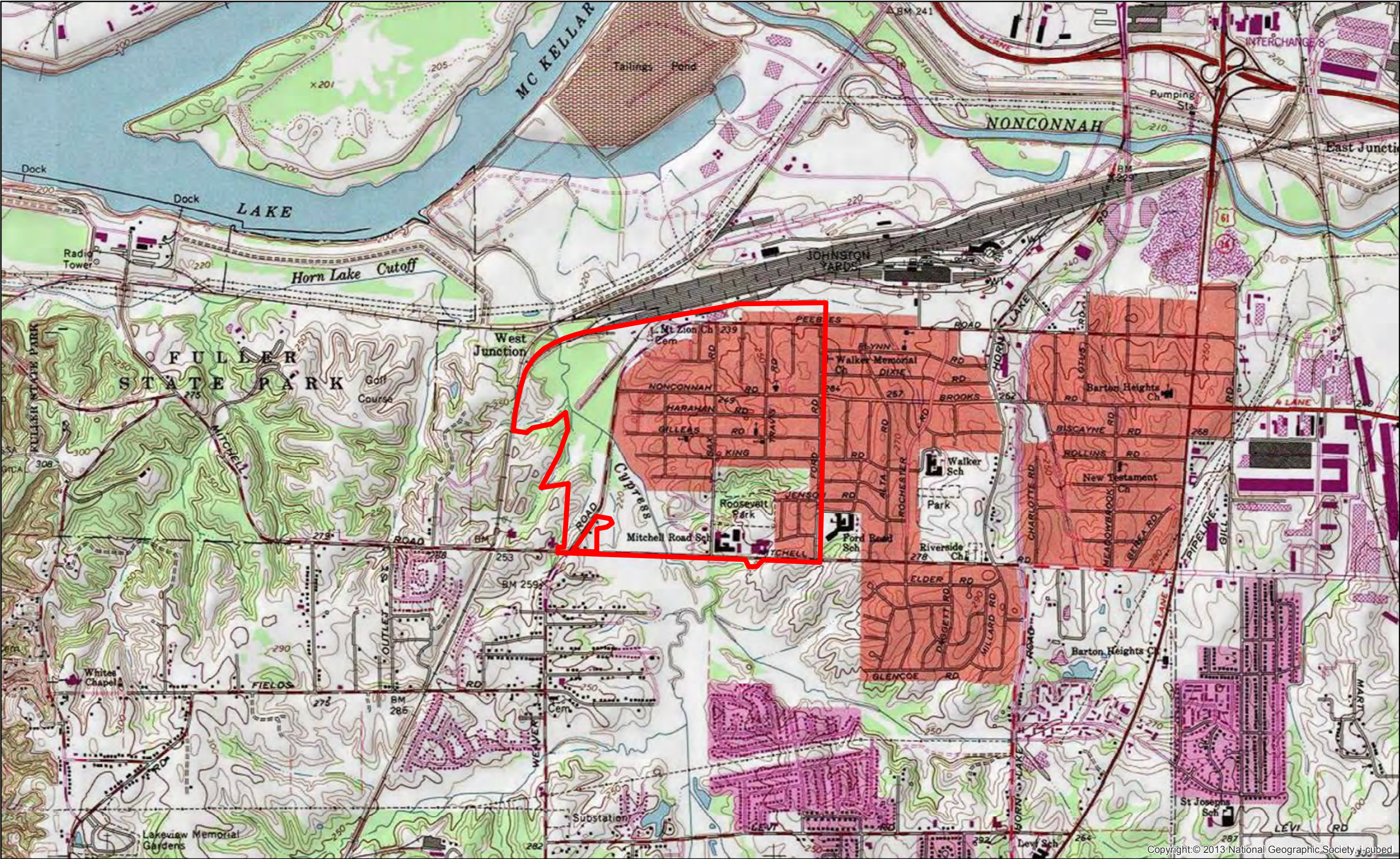
Sasaki Associates
Cypress Creek
Shelby County HUD

Figure No.

1
Title
PROJECT LIMITS

CONCEPTUAL

South Cypress Creek Restoration and Neighborhood Redevelopment Project



Southwest Memphis Quad Map
1:24000

SOUTH CYPRESS CREEK DESIGN CONCEPT

JUNE 12, 2018

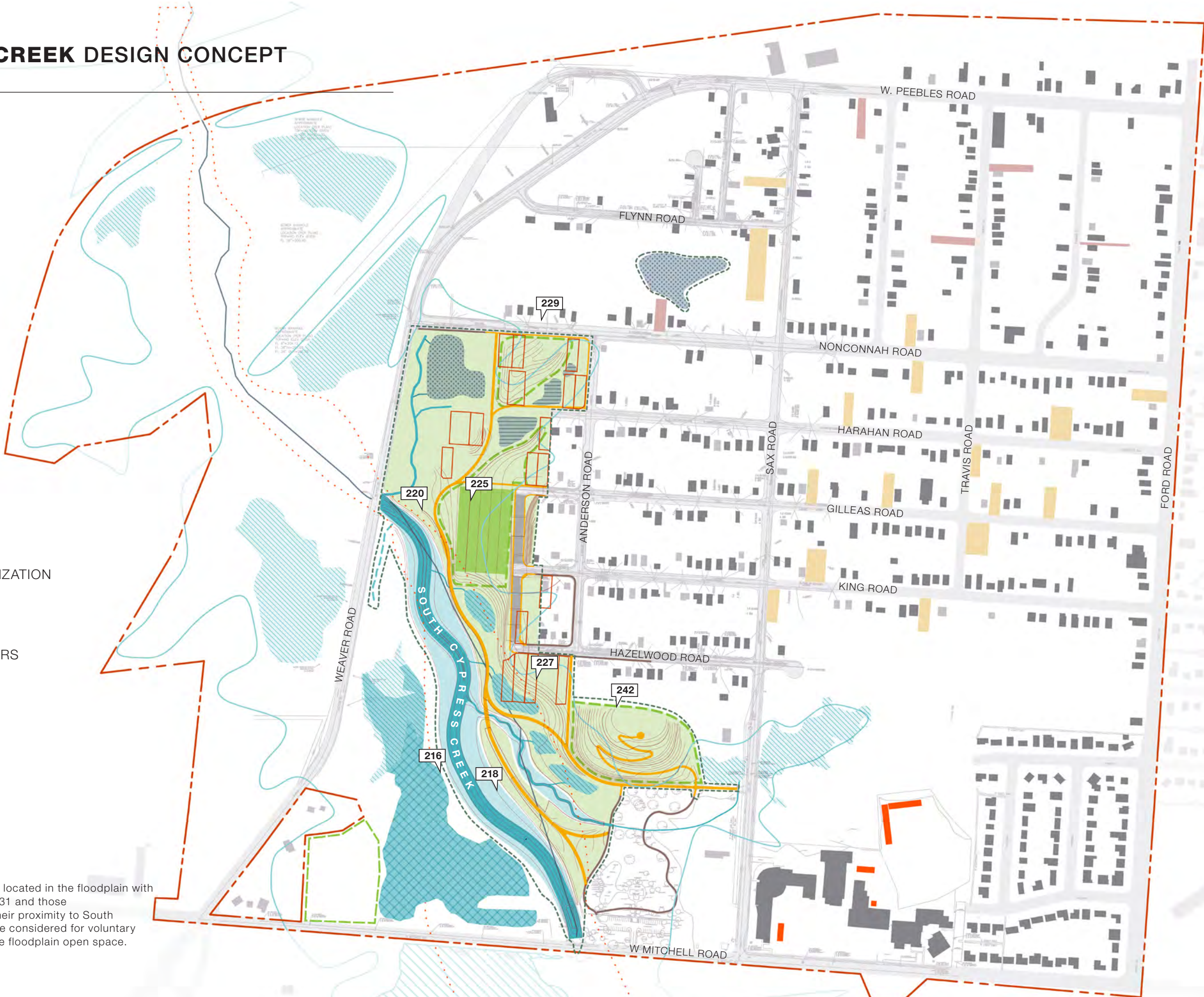
EXISTING

- CREEK ALIGNMENT
- 100YR FLOODPLAIN
- FLOODWAY
- WETLAND
- ROAD
- WALK
- OCCUPIED STRUCTURE
- VACANT STRUCTURE

PROPOSED

- CREEK RESTORATION
- BANKFULL BENCH
- WETLAND CREATION
- WETLAND RESTORATION
- BMP
- RAINGARDEN
- REHABILITATION/ STABILIZATION
- LIMITS OF GRADING
- PARK AREA
- MAJOR/ MINOR CONTOURS
- SPOIL AREA
- FIELD
- WALK
- ROAD
- HOUSING INFILL LOT
- SIDE LOT
- FOOD LOT
- PROPERTIES AT RISK

Properties at risk include homes located in the floodplain with finish floor elevations below EL231 and those identified as vulnerable due to their proximity to South Cypress Creek. Properties will be considered for voluntary buyout and incorporation into the floodplain open space.



Appendix A – Airport Hazards

South Cypress Creek Watershed and West Junction
Neighborhood Redevelopment



U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
WASHINGTON, DC 20410-1000

This Worksheet was designed to be used by those “Partners” (including Public Housing Authorities, consultants, contractors, and nonprofits) who assist Responsible Entities and HUD in preparing environmental reviews, but legally cannot take full responsibilities for these reviews themselves. Responsible Entities and HUD should use the RE/HUD version of the Worksheet.

Airport Hazards (CEST and EA) – PARTNER

hudexchange.info/environmental-review/airport-hazards

- 1. To ensure compatible land use development, you must determine your site’s proximity to civil and military airports. Is your project within 15,000 feet of a military airport or 2,500 feet of a civilian airport?**

☒ No → *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide a map showing that the site is not within the applicable distances to a military or civilian airport.*

☐ Yes → *Continue to Question 2.*

- 2. Is your project located within a Runway Potential Zone/Clear Zone (RPZ/CZ) or Accident Potential Zone (APZ)?**

☐ Yes, project is in an APZ → *Continue to Question 3.*

☐ Yes, project is an RPZ/CZ → *Project cannot proceed at this location.*

☐ No, project is not within an APZ or RPZ/CZ

→ *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Continue to the Worksheet Summary below. Provide a map showing that the site is not within either zone.*

- 3. Is the project in conformance with DOD guidelines for APZ?**

☐ Yes, project is consistent with DOD guidelines without further action.

→ *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide any documentation supporting this determination.*

☐ No, the project cannot be brought into conformance with DOD guidelines and has not been approved. → *Project cannot proceed at this location.*

If mitigation measures have been or will be taken, explain in detail the proposed measures that must be implemented to mitigate for the impact or effect, including the timeline for implementation.

[Click here to enter text.](#)

→ Work with the RE/HUD to develop mitigation measures. Continue to the Worksheet Summary below. Provide any documentation supporting this determination.

Worksheet Summary

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

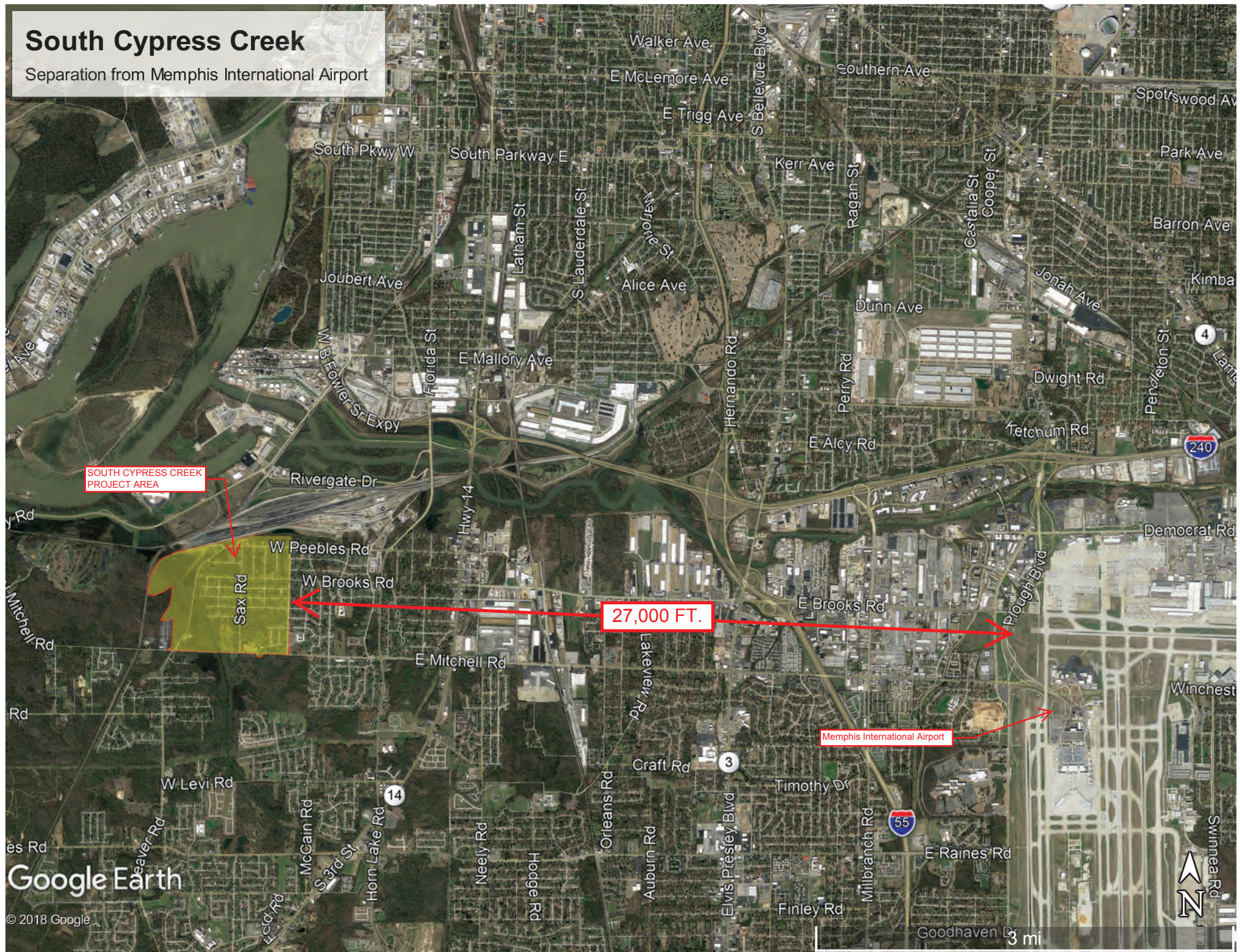
- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

Include all documentation supporting your findings in your submission to HUD.

The Proposed Project limits are approximately 27,000 feet from Memphis International Airport and 47,000 feet from Dewitt-Spain Airport. See attached maps for locations.

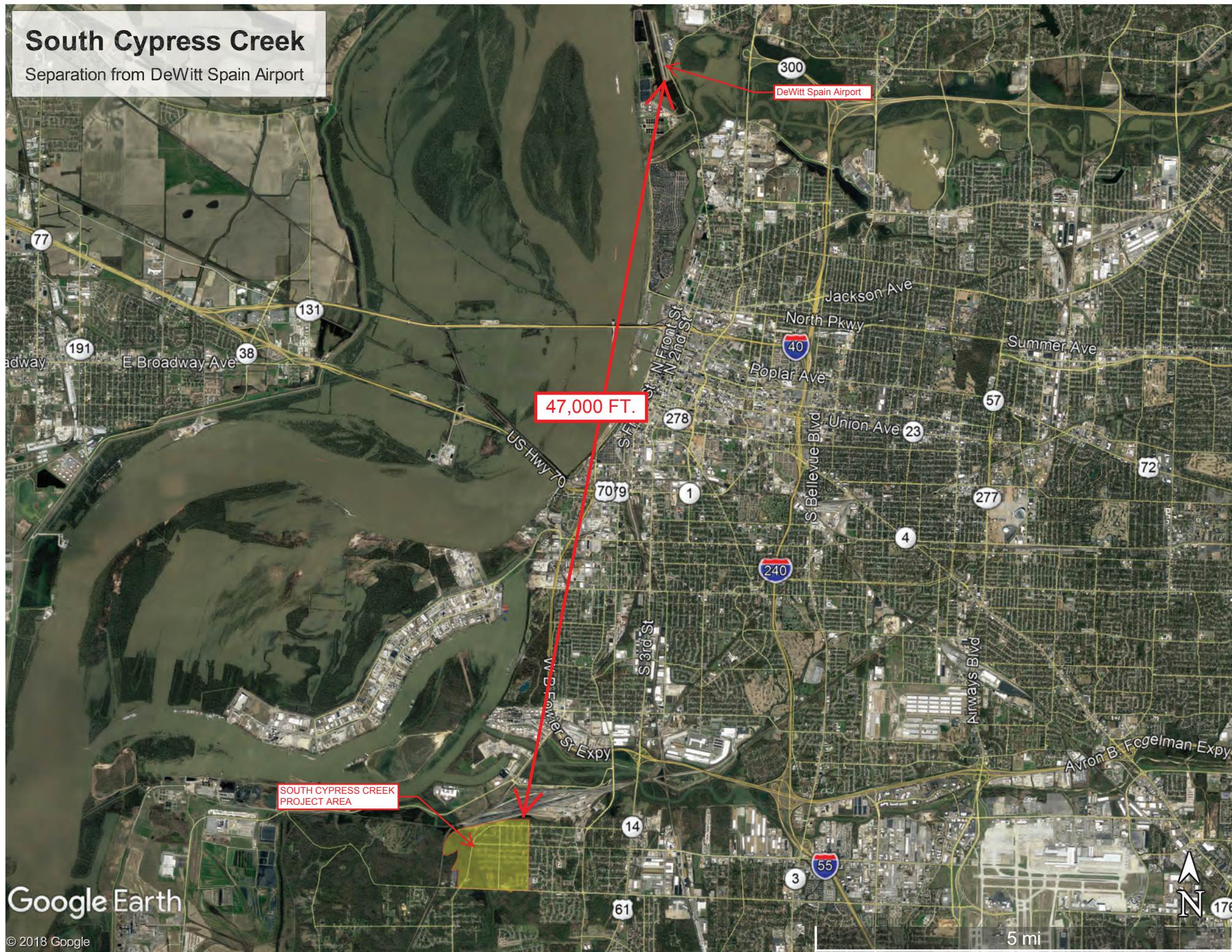
South Cypress Creek

Separation from Memphis International Airport



South Cypress Creek

Separation from DeWitt Spain Airport



Appendix B – Coastal Barrier Resources

South Cypress Creek Watershed and West Junction
Neighborhood Redevelopment



U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
WASHINGTON, DC 20410-1000

This Worksheet was designed to be used by those “Partners” (including Public Housing Authorities, consultants, contractors, and nonprofits) who assist Responsible Entities and HUD in preparing environmental reviews, but legally cannot take full responsibilities for these reviews themselves. Responsible Entities and HUD should use the RE/HUD version of the Worksheet.

Coastal Barrier Resources (CEST and EA) – PARTNER

Projects located in the following states must complete this form.

| | | | | | |
|-------------|-----------|---------------|----------------|----------------|----------------|
| Alabama | Georgia | Massachusetts | New Jersey | Puerto Rico | Virgin Islands |
| Connecticut | Louisiana | Michigan | New York | Rhode Island | Virginia |
| Delaware | Maine | Minnesota | North Carolina | South Carolina | Wisconsin |
| Florida | Maryland | Mississippi | Ohio | Texas | |

1. Is the project located in a CBRS Unit?

- ☒ No → *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide a map showing that the site is not within a CBRS Unit.*
- ☐ Yes → *Continue to 2.*

Federal assistance for most activities may not be used at this location. You must either choose an alternate site or cancel the project. In very rare cases, federal monies can be spent within CBRS units for certain exempted activities (e.g., a nature trail), after consultation with the Fish and Wildlife Service (FWS) (see [16 USC 3505](#) for exceptions to limitations on expenditures).

2. Indicate your recommended course of action for the RE/HUD

- ☐ Consultation with the FWS
- ☐ Cancel the project

Worksheet Summary

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

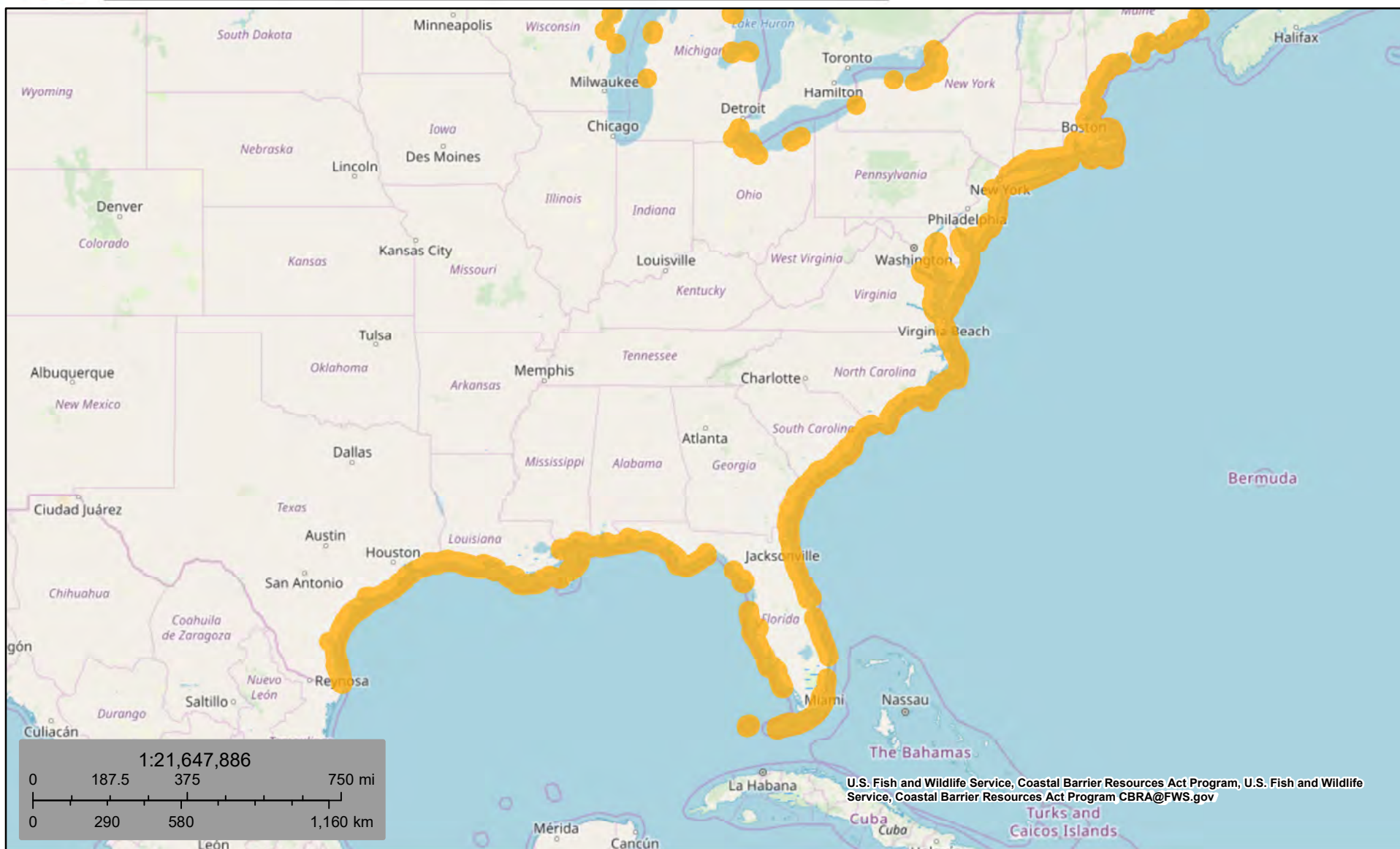
Include all documentation supporting your findings in your submission to HUD.

Click here to enter text.



U.S. Fish and Wildlife Service Coastal Barrier Resources System

South Cypress Creek



July 17, 2019

CBRS Units

This map is for general reference only. The Coastal Barrier Resources System (CBRS) boundaries depicted on this map are representations of the controlling CBRS boundaries, which are shown on the official maps. All CBRS related data should be used in accordance with the layer metadata found on the CBRS Mapper website.

The CBRS Buffer Zone represents the area immediately adjacent to the CBRS boundary where users are advised to contact the Service for an official determination as to whether the property or project site is located "in" or "out" of the CBRS.

CBRS Units normally extend seaward out to the 20- or 30-foot bathymetric contour (depending on the location of the unit). The true seaward extent of the units is not shown in the CBRS mapper.

Appendix C – Flood Insurance

South Cypress Creek Watershed and West Junction
Neighborhood Redevelopment



U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
WASHINGTON, DC 20410-1000

This Worksheet was designed to be used by those “Partners” (including Public Housing Authorities, consultants, contractors, and nonprofits) who assist Responsible Entities and HUD in preparing environmental reviews, but legally cannot take full responsibilities for these reviews themselves. Responsible Entities and HUD should use the RE/HUD version of the Worksheet.

Flood Insurance (CEST and EA) – PARTNER

hudexchange.info/environmental-review/flood-insurance

1. Does this project involve mortgage insurance, refinance, acquisition, repairs, rehabilitation, or construction of a structure, mobile home, or insurable personal property?

☐ No. This project does not require flood insurance or is excepted from flood insurance.

→ Continue to the Worksheet Summary.

☒ Yes → Continue to Question 2.

2. Provide a FEMA/FIRM map showing the site.

The Federal Emergency Management Agency (FEMA) designates floodplains. The FEMA Map Service Center provides this information in the form of FEMA Flood Insurance Rate Maps (FIRMs).

Is the structure, part of the structure, or insurable property located in a FEMA-designated Special Flood Hazard Area?

☐ No → Continue to the Worksheet Summary.

☒ Yes → Continue to Question 3.

3. Is the community participating in the National Flood Insurance Program or has less than one year passed since FEMA notification of Special Flood Hazards?

☒ Yes, the community is participating in the National Flood Insurance Program.

Flood insurance is required. Provide a copy of the flood insurance policy declaration or a paid receipt for the current annual flood insurance premium and a copy of the application for flood insurance.

→ Continue to the Worksheet Summary.

☐ Yes, less than one year has passed since FEMA notification of Special Flood Hazards. If less than one year has passed since notification of Special Flood Hazards, no flood Insurance is required.

→ Continue to the Worksheet Summary.

☐ No. The community is not participating, or its participation has been suspended. Federal assistance may not be used at this location. Cancel the project at this location.

Worksheet Summary

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

Include all documentation supporting your findings in your submission to HUD.

The project involves the voluntary selling of properties located in the floodplain by individual property owners, followed by the demolition of any insurable structures on the properties. No insurable property will remain, so no insurance premiums will be paid.

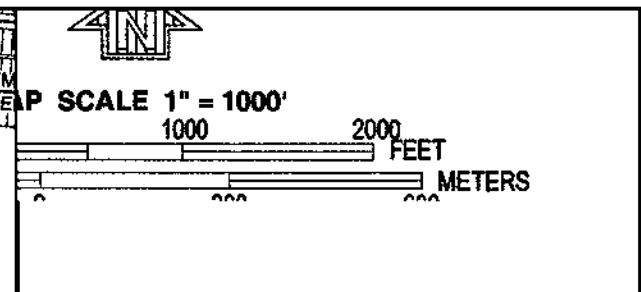
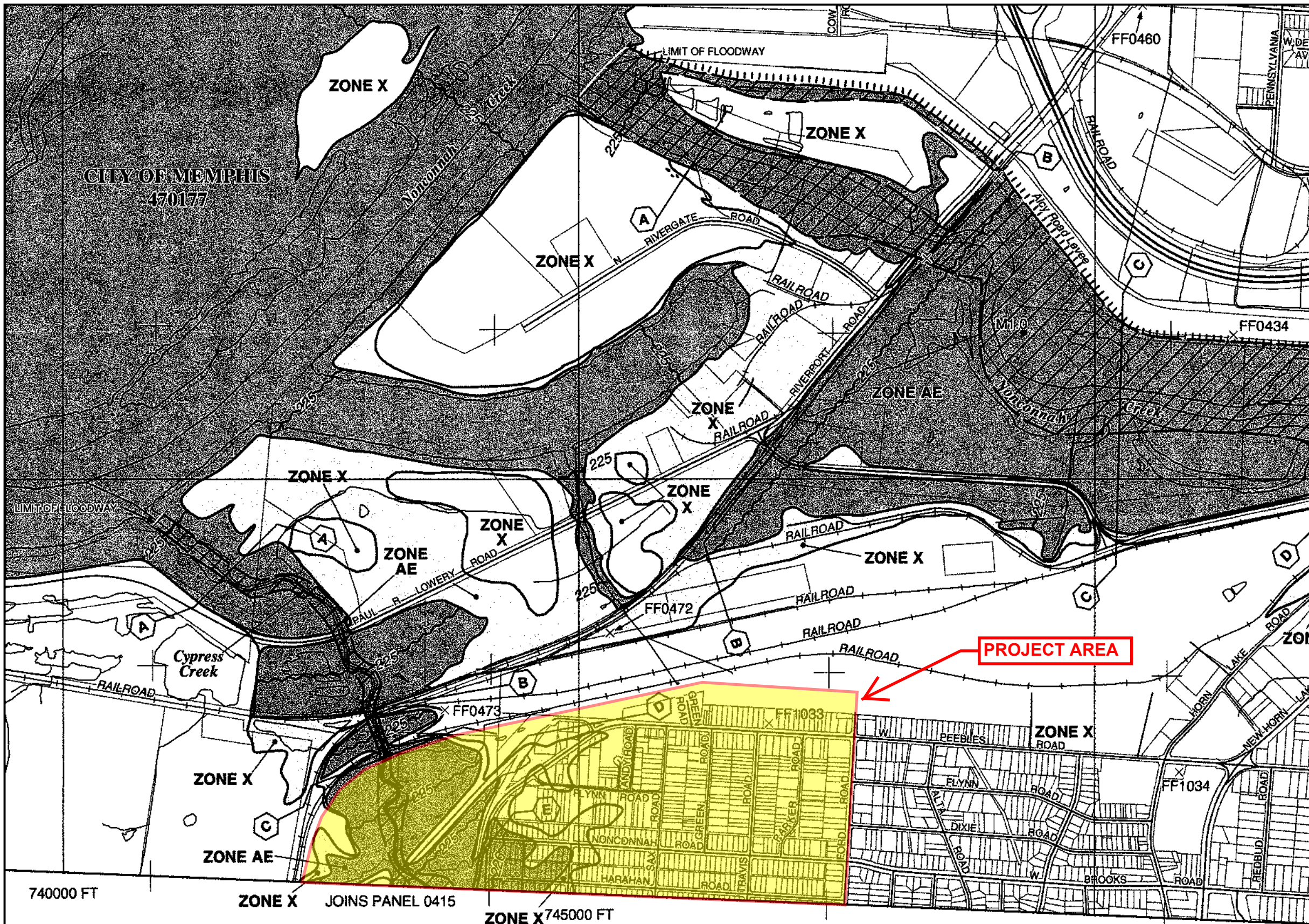
Federal Emergency Management Agency

Community Status Book Report

TENNESSEE

Communities Participating in the National Flood Program

| CID | Community Name | County | Init FHBM Identified | Init FIRM Identified | Curr Eff Map Date | Reg-Emer Date | Tribal |
|--|---|-------------------|-------------------------|-------------------------|----------------------|------------------|--------|
| 470334# | LAKE COUNTY * | LAKE COUNTY | | 03/16/81 | 06/04/10 | 03/16/81 | No |
| 470402# | LAKELAND, CITY OF | SHELBY COUNTY | | 12/02/94 | 02/06/13 | 06/20/02 | No |
| 470413# | LAKESITE, CITY OF | HAMILTON COUNTY | | 11/07/02 | 02/03/16 | 11/24/10 | No |
| 470333# | LAUDERDALE COUNTY* | LAUDERDALE COUNTY | 09/16/77 | 09/30/87 | 09/28/07 | 09/30/87 | No |
| 470167# | LAVERGNE, CITY OF | RUTHERFORD COUNTY | 06/28/74 | 06/15/84 | 10/16/08 | 06/15/84 | No |
| 470354B | LAWRENCE COUNTY * | LAWRENCE COUNTY | 11/25/77 | 12/16/88 | 11/18/16 | 12/10/98 | No |
| 475437# | LAWRENCEBURG, CITY OF | LAWRENCE COUNTY | 05/25/73 | 05/25/73 | 01/02/09 | 05/25/73 | No |
| 470208# | LEBANON, CITY OF | WILSON COUNTY | 04/12/74 | 01/06/83 | 05/18/09 | 01/06/83 | No |
| 475438# | LENOIR CITY, CITY OF | LOUDON COUNTY | | 07/21/72 | 05/16/07 | 07/21/72 | No |
| 470103# | LEWIS COUNTY * | LEWIS COUNTY | 02/09/79 | 06/01/05 | 01/20/10(M) | 06/01/05 | No |
| 470121# | LEWISBURG, CITY OF | MARSHALL COUNTY | 03/01/74 | 08/01/80 | 09/28/07 | 02/17/88 | No |
| 470089# | LEXINGTON, CITY OF | HENDERSON COUNTY | 06/14/74 | 10/08/76 | 04/16/08 | 09/02/88 | No |
| 470044# | LIBERTY, CITY OF | DEKALB COUNTY | 08/09/74 | 04/19/10 | 04/19/10(M) | 09/04/86 | No |
| 470104B | LINCOLN COUNTY* | LINCOLN COUNTY | 10/28/77 | 10/01/92 | 11/18/16 | 10/01/92 | No |
| 470145# | LINDEN, TOWN OF | PERRY COUNTY | 06/14/74 | 08/05/86 | 09/29/10(M) | 08/05/86 | No |
| 470143# | LIVINGSTON, CITY OF | OVERTON COUNTY | 05/24/74 | 06/03/86 | 05/18/09(M) | 06/03/86 | No |
| 470146# | LOBELVILLE, CITY OF | PERRY COUNTY | 01/13/78 | 09/29/10 | 09/29/10(M) | 08/07/12 | No |
| 470075# | LOOKOUT MOUNTAIN, TOWN OF | HAMILTON COUNTY | 05/14/76 | 09/01/86 | 02/03/16 | 06/05/03 | No |
| 470306# | LORETTO, CITY OF | LAWRENCE COUNTY | 07/02/76 | 12/16/88 | 01/02/09 | 11/17/10 | No |
| 470107# | LOUDON COUNTY* | LOUDON COUNTY | | 08/15/78 | 05/16/07 | 08/15/78 | No |
| 470110# | LOUDON, CITY OF | LOUDON COUNTY | 02/01/74 | 04/03/78 | 05/16/07 | 04/03/78 | No |
| 470405# | LOUISVILLE, TOWN OF | BLOUNT COUNTY | | 09/19/07 | 09/19/07 | 09/19/07 | No |
| 470209# | LUTTRELL, CITY OF | UNION COUNTY | 09/03/76 | 09/01/89 | 09/25/09 | 09/01/89 | No |
| 470138# | LYNCHBURG-MOORE COUNTY, METROPOLITAN GOVERNMENT OF | MOORE COUNTY | 03/08/74 | 09/29/86 | 09/29/10 | 09/29/86 | No |
| 470065# | LYNNVILLE, CITY OF | GILES COUNTY | 06/14/74 | 07/01/00 | 09/28/07(M) | 07/01/00 | No |
| 470371# | MACON COUNTY * | MACON COUNTY | 10/27/78 | 09/04/85 | 10/19/10 | 09/04/85 | No |
| 470112# | MADISON COUNTY * | MADISON COUNTY | 01/17/75 | 07/05/83 | 08/03/09 | 07/05/83 | No |
| 470307# | MADISONVILLE, TOWN OF | MONROE COUNTY | 12/10/76 | 02/03/10 | 02/03/10 | 02/03/10 | No |
| Community will be converted to the Regular Phase on the FIRM effective date, 02/03/2010. | | | | | | | |
| 470035# | MANCHESTER, CITY OF | COFFEE COUNTY | 05/24/74 | 10/17/78 | 08/04/08 | 10/17/78 | No |
| 470114# | MARION COUNTY * | MARION COUNTY | 10/28/77 | 05/15/80 | 01/06/12 | 05/15/80 | No |
| 470119# | MARSHALL COUNTY* | MARSHALL COUNTY | 02/02/79 | 02/17/88 | 09/28/07 | 02/17/88 | No |
| 470202# | MARTIN, CITY OF | WEAKLEY COUNTY | 03/01/74 | 09/15/89 | 11/05/08 | 09/15/89 | No |
| 475439# | MARYVILLE, CITY OF | BLOUNT COUNTY | | 12/07/71 | 09/19/07 | 12/07/71 | No |
| 470191# | MASON, CITY OF | TIPTON COUNTY | 10/01/76 | 05/15/86 | 12/19/06(M) | 05/15/86 | No |
| 470123# | MAURY COUNTY* | MAURY COUNTY | 12/02/77 | 11/03/89 | 05/04/09 | 11/03/89 | No |
| 470210# | MAYNARDVILLE, CITY OF | UNION COUNTY | 05/17/74 | 06/03/86 | 09/25/09 | 06/03/86 | No |
| 470308# | MCEWEN, CITY OF | HUMPHREYS COUNTY | 07/02/76 | 05/01/94 | 09/25/09(M) | 05/01/94 | No |
| 470023# | MCKENZIE, TOWN OF | CARROLL COUNTY | 09/06/74 | 09/04/85 | 03/18/08(M) | 09/04/85 | No |
| 470427# | MCLEMORESVILLE, TOWN OF | CARROLL COUNTY | | 03/18/08 | 03/18/08(M) | 07/11/12 | No |
| 470126# | MCMINN COUNTY* | MCMINN COUNTY | 07/01/77 | 09/04/91 | 05/04/09 | 07/11/12 | No |
| 470195# | MCMINNVILLE, CITY OF | WARREN COUNTY | 03/29/74 | 09/26/08 | 09/26/08 | 12/01/77 | No |
| 470127# | MCNAIRY COUNTY* | MCNAIRY COUNTY | 10/21/77 | 07/01/88 | 12/02/08 | 07/01/88 | No |
| 470251# | MEDINA, CITY OF | GIBSON COUNTY | 01/03/75 | 11/05/08 | 11/05/08(M) | 11/06/08 | No |
| 470403# | MEDON, TOWN OF | MADISON COUNTY | | 01/21/98 | 08/03/09 | 11/01/07 | No |
| 470133# | MEIGS COUNTY* | MEIGS COUNTY | 12/02/77 | 11/16/90 | 09/17/10 | 07/15/10 | No |
| 470177# | MEMPHIS, CITY OF | SHELBY COUNTY | 08/23/74 | 12/01/82 | 02/06/13 | 12/01/82 | No |
| 470040B | METRO GOVERNMENT OF NASHVILLE-DAVIDSON COUNTY The City of Nashville-Davidson County includes the City of Lakewood (CID | DAVIDSON COUNTY | 12/27/74 | 06/15/82 | 04/05/17 | 06/15/82 | No |



PANEL 0405F

FIRM
FLOOD INSURANCE RATE MAP
SHELBY COUNTY,
TENNESSEE
AND INCORPORATED AREAS

PANEL 405 OF 635
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

| COMMUNITY | NUMBER | PANEL | SUFFIX |
|------------------|--------|-------|--------|
| MEMPHIS, CITY OF | 470177 | 0405 | F |

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.

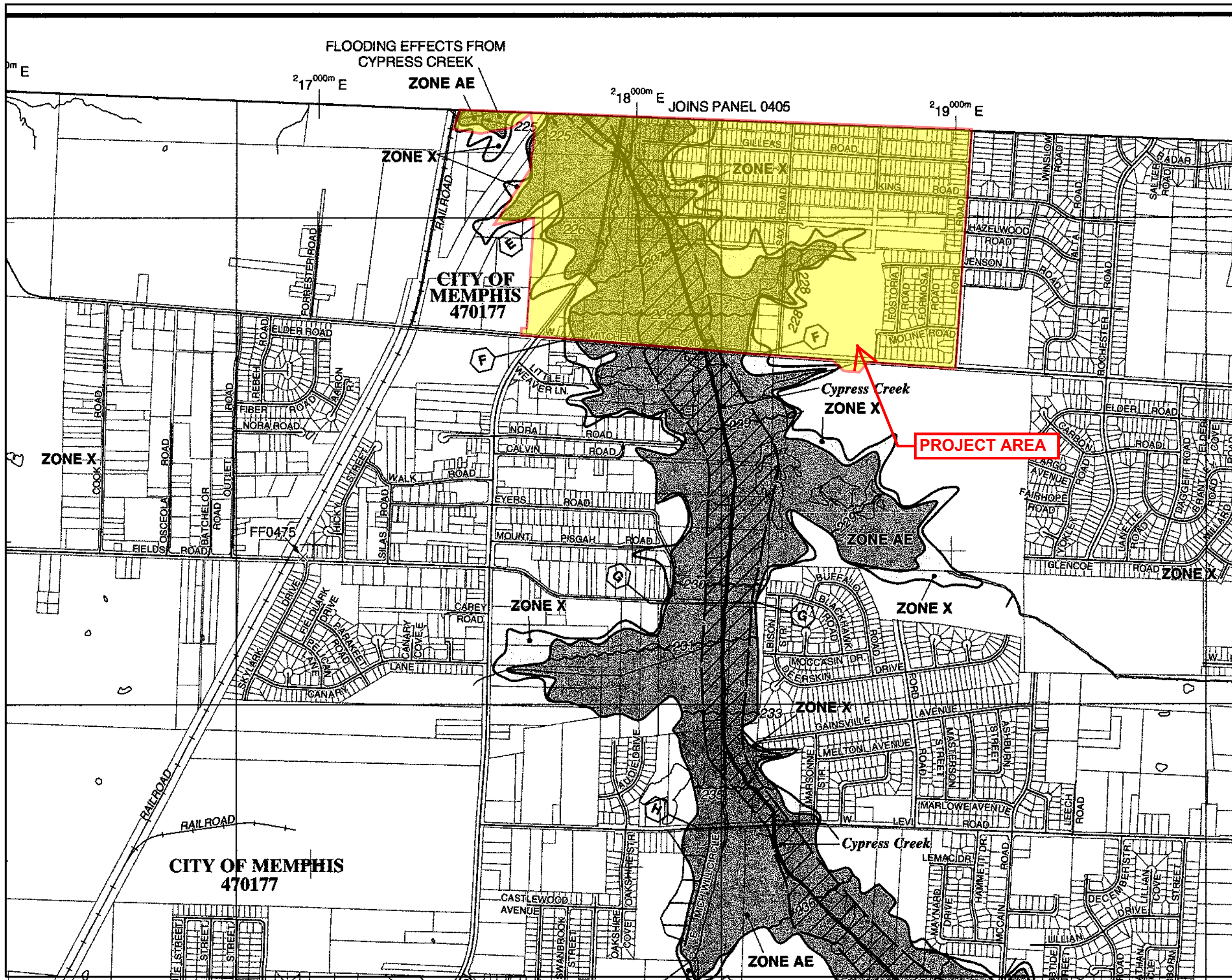



MAP NUMBER
47157C0405F

MAP REVISED
SEPTEMBER 28, 2007

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov





MAP SCALE 1" = 1000'

1000 2000 FEET

500 1000 METERS

FIRM

FLOOD INSURANCE RATE MAP

SHELBY COUNTY, TENNESSEE


AND INCORPORATED AREAS

PANEL 415 OF 635
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

| COMMUNITY | NUMBER | PANEL | SUFFIX |
|------------------|--------|-------|--------|
| MEMPHIS, CITY OF | 470177 | 0415 | F |

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.



MAP NUMBER
47157C0415F

MAP REVISED
SEPTEMBER 28, 2007

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov

Appendix D – Air Quality

South Cypress Creek Watershed and West Junction Neighborhood Redevelopment



U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
WASHINGTON, DC 20410-1000

This Worksheet was designed to be used by those “Partners” (including Public Housing Authorities, consultants, contractors, and nonprofits) who assist Responsible Entities and HUD in preparing environmental reviews, but legally cannot take full responsibilities for these reviews themselves. Responsible Entities and HUD should use the RE/HUD version of the Worksheet.

Air Quality (CEST and EA) – PARTNER

hudexchange.info/environmental-review/air-quality

- 1. Does your project include new construction or conversion of land use facilitating the development of public, commercial, or industrial facilities OR five or more dwelling units?**

☐ Yes → *Continue to Question 2.*

☒ No → *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Provide any documents used to make your determination.*

- 2. Is your project’s air quality management district or county in non-attainment or maintenance status for any criteria pollutants?**

Follow the link below to determine compliance status of project county or air quality management district:

epa.gov/oaqps001/greenbk/

☐ No, project’s county or air quality management district is in attainment status for all criteria pollutants

→ *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide any documents used to make your determination.*

☒ Yes, project’s management district or county is in non-attainment or maintenance status for one or more criteria pollutants. → *Continue to Question 3.*

- 3. Determine the estimated emissions levels of your project for each of those criteria pollutants that are in non-attainment or maintenance status on your project area. Will your project exceed any of the *de minimis* or *threshold* emissions levels of non-attainment and maintenance level pollutants or exceed the screening levels established by the state or air quality management district?**

☒ No, the project will not exceed *de minimis* or threshold emissions levels or screening levels

→ *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Explain how you determined that the project would not exceed de minimis or threshold emissions.*

The nature of the project should not affect air quality.

☐ Yes, the project exceeds *de minimis* emissions levels or screening levels.

→ Continue to Question 4. Explain how you determined that the project would not exceed *de minimis* or threshold emissions in the Worksheet Summary.

- 4. For the project to be brought into compliance with this section, all adverse impacts must be mitigated. Explain in detail the exact measures that must be implemented to mitigate for the impact or effect, including the timeline for implementation.**

[Click here to enter text.](#)

Worksheet Summary

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

Include all documentation supporting your findings in your submission to HUD.

The US EPA's Green Book was referenced to determine whether the proposed project area is located within areas of concerns for the criteria pollutants.

The EPA Green Book provides detailed information about area National Ambient Air Quality Standards (NAAQS) designations, classifications and nonattainment status. Information is current as of the Green Book posted date and is available in reports, maps and data downloads

epa.gov/airquality/greenbook/anayo_tn.html

Appendix E – Coastal Zone Management

South Cypress Creek Watershed and West Junction Neighborhood Redevelopment



U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
WASHINGTON, DC 20410-1000

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Coastal Zone Management Act (CEST and EA) – PARTNER

onecpd.info/environmental-review/coastal-zone-management Projects

located in the following states must complete this form.

| | | | | | |
|-------------------|----------|---------------|-----------------------------|----------------|----------------|
| Alabama | Florida | Louisiana | Mississippi | Ohio | Texas |
| Alaska | Georgia | Maine | New Hampshire | Oregon | Virgin Islands |
| American Samoa | Guam | Maryland | New Jersey | Pennsylvania | Virginia |
| California | Hawaii | Massachusetts | New York | Puerto Rico | Washington |
| Connecticut | Illinois | Michigan | North Carolina | Rhode Island | Wisconsin |
| Delaware | Indiana | Minnesota | Northern Mariana Islands | South Carolina | |

1. Is the project located in, or does it affect, a Coastal Zone as defined in your state Coastal Management Plan?

☐ Yes → Continue to Question 2.

☒ No → If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide a map showing that the site is not within a Coastal Zone.

2. Does this project include activities that are subject to state review?

☐ Yes → Continue to Question 3.

☐ No → If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide documentation used to make your determination.

3. Has this project been determined to be consistent with the State Coastal Management Program?

☐ Yes, with mitigation. → The RE/HUD must work with the State Coastal Management Program to develop mitigation measures to mitigate the impact or effect of the project.

☐ Yes, without mitigation. → If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide documentation used to make your determination.

☐ No → Project cannot proceed at this location.

Worksheet Summary

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

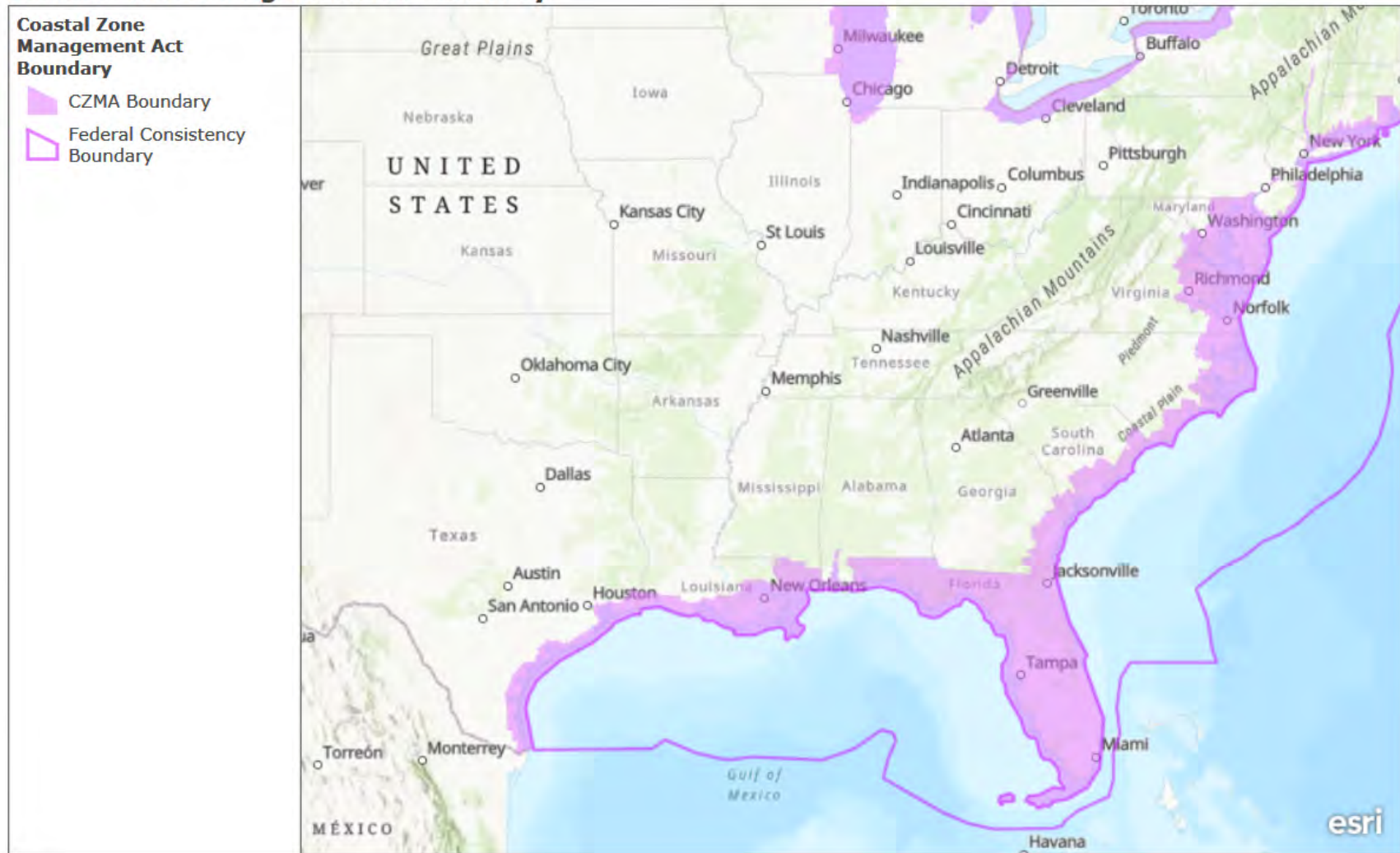
- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

Include all documentation supporting your findings in your submission to HUD.

No coastal zone management programs are in the state of Tennessee per Nat'l Oceanic & Atmospheric Administration, Office of Ocean and Coastal Resource Management.

coast.noaa.gov/czm/mystate/

Coastal Zone Management Act Boundary



This service layer represents the Coastal Zone Management Act Boundary for the United States and US Territories as of December 2013.

Esri, USGS | Esri, HERE, Garmin, FAO, NOAA, USGS, EPA | NOAA Office for Coastal Management

Appendix F – Contamination and Toxic Substances

South Cypress Creek Watershed and West Junction Neighborhood Redevelopment

Contamination and Toxic Substances (Single Family Properties) – PARTNER

This Worksheet was designed to be used by those “Partners” (including Public Housing Authorities, consultants, contractors, and nonprofits) who assist Responsible Entities and HUD in preparing environmental reviews, but legally cannot take full responsibilities for these reviews themselves. Responsible Entities and HUD should use the RE/HUD version of the Worksheet.

| General requirements | Legislation | Regulations |
|--|-------------|-------------------------------------|
| It is HUD policy that all properties that are being proposed for use in HUD programs be free of hazardous materials, contamination, toxic chemicals and gases, and radioactive substances, where a hazard could affect the health and safety of the occupants or conflict with the intended utilization of the property. | | 24 CFR 58.5(i)(2) 24 CFR 50.3(i) |
| Reference | | |
| | | |

1. Evaluate the site for contamination. Were any on-site or nearby toxic, hazardous, or radioactive substances found that could affect the health and safety of project occupants or conflict with the intended use of the property?

Provide a map or other documentation of absence or presence of contamination¹ and explain evaluation of site contamination in the Worksheet below.

☒ No

Explain:

The existing conditions include an undeveloped portion on land and a developed neighborhood with not potential toxic substance sources.

→ *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below.*

☐ Yes

→ *Describe the findings, including any recognized environmental conditions (RECs), in Worksheet Summary below. Continue to Question 2.*

¹ Utilize EPA’s Enviromapper and state/tribal databases to identify nearby dumps, junk yards, landfills, hazardous waste sites, and industrial sites, including EPA National Priorities List Sites (Superfund sites), CERCLA or state-equivalent sites, RCRA Corrective Action sites with release(s) or suspected release(s) requiring clean-up action and/or further investigation. Additional supporting documentation may include other inspections and reports.

Check here if an ASTM Phase I Environmental Site Assessment (ESA) report was utilized. [Note: HUD regulations does not require an ASTM Phase I ESA report for single family homes]

2. Mitigation

Work with the RE/HUD to identify the mitigation needed according to the requirements of the appropriate federal, state, tribal, or local oversight agency. If the adverse environmental mitigation cannot be mitigated, then HUD assistance may not be used for the project at this site.

Can adverse environmental impacts be mitigated?

☐ Adverse environmental impacts cannot feasibly be mitigated

→ Project cannot proceed at this location.

☐ Yes, adverse environmental impacts can be eliminated through mitigation.

→ *Provide all mitigation requirements² and documents. Continue to Question 3.*

3. Describe how compliance was achieved. Include any of the following that apply: State Voluntary Clean-up Program, a No Further Action letter, use of engineering controls³, or use of institutional controls⁴.

[Click here to enter text.](#)

If a remediation plan or clean-up program was necessary, which standard does it follow?

☐ Complete removal

☐ Risk-based corrective action (RBCA)

☐ Other

→ *Continue to the Worksheet Summary.*

² Mitigation requirements include all clean-up actions required by applicable federal, state, tribal, or local law. Additionally, provide, as applicable, the long-term operations and maintenance plan, Remedial Action Work Plan, and other equivalent documents.

³ Engineering controls are any physical mechanism used to contain or stabilize contamination or ensure the effectiveness of a remedial action. Engineering controls may include, without limitation, caps, covers, dikes, trenches, leachate collection systems, signs, fences, physical access controls, ground water monitoring systems and ground water containment systems including, without limitation, slurry walls and ground water pumping systems.

⁴ Institutional controls are mechanisms used to limit human activities at or near a contaminated site, or to ensure the effectiveness of the remedial action over time, when contaminants remain at a site at levels above the applicable remediation standard which would allow for unrestricted use of the property. Institutional controls may include structure, land, and natural resource use restrictions, well restriction areas, classification exception areas, deed notices, and declarations of environmental restrictions.

Worksheet Summary

Compliance Determination

Provide a clear description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your region

Included a snap shot of the TRI for nearest know source. This location is outside of the project area.

Are formal compliance steps or mitigation required?

☐ Yes

☒ No

2016 TRI Factsheet: ZIP Code – 38109

Data Source: 2016 Dataset (released October 2017)

The [Toxics Release Inventory \(TRI\)](#) tracks the management of certain toxic chemicals that may pose a threat to human health and the environment. Certain industrial facilities in the U.S. must report annually how much of each chemical is recycled, combusted for energy recovery, treated for destruction, and disposed of or otherwise released on- and off-site. This information is collectively referred to as production-related waste managed.

Map of TRI Facilities in ZIP Code 38109



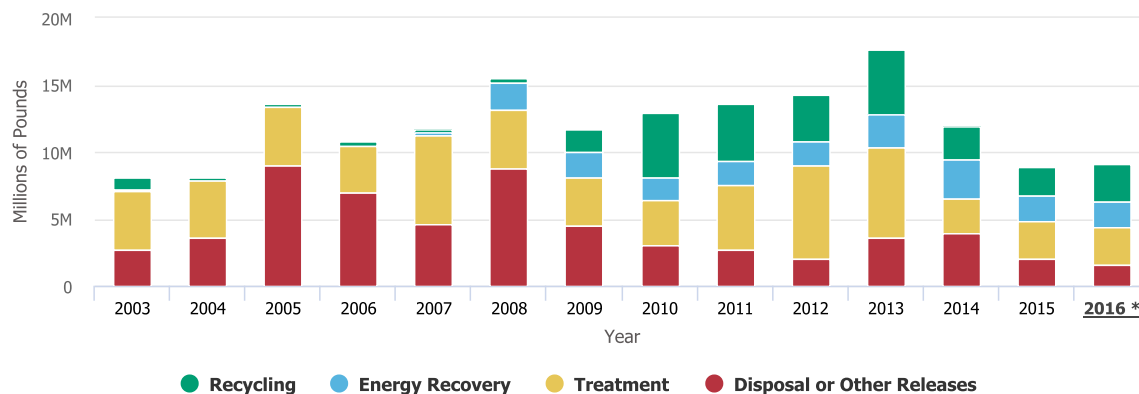
Quick Facts for 2016

| | ZIP Code 38109 | United States |
|---|--------------------|-------------------|
| Number of TRI Facilities: | 18 | 21,629 |
| Total Production-Related Waste Managed: | 9.1 million lbs | 27.7 billion lbs |
| Total On-site and Off-site Disposal or Other Releases: | 1.5 million lbs | 3.4 billion lbs |
| <u>Total On-site:</u> | 1.4 million lbs | 3.0 billion lbs |
| • <u>Air:</u> | 762.1 thousand lbs | 609.8 million lbs |
| • <u>Water:</u> | 82.6 thousand lbs | 190.7 million lbs |
| • <u>Land:</u> | 623.9 thousand lbs | 2.2 billion lbs |
| <u>Total Off-Site:</u> | 90.4 thousand lbs | 404.1 million lbs |

Tennessee ranks **6 out of 56** states/territories nationwide based on total releases per square mile (Rank 1 = highest releases)

Looking at production-related waste managed over time helps track progress in reducing waste generated and moving toward safer waste management methods. EPA encourages facilities to first eliminate waste at its source (source reduction). For waste that is generated, the preferred management method is recycling, followed by energy recovery, treatment, and as a last resort, disposing of or otherwise releasing the waste. Under the Pollution Prevention Act of 1990, TRI collects information to track industry progress in reducing waste generation and moving towards safer waste management alternatives. Learn more about [Pollution Prevention and TRI](#).

Production-related waste managed in ZIP Code 38109, 2003 - 2015

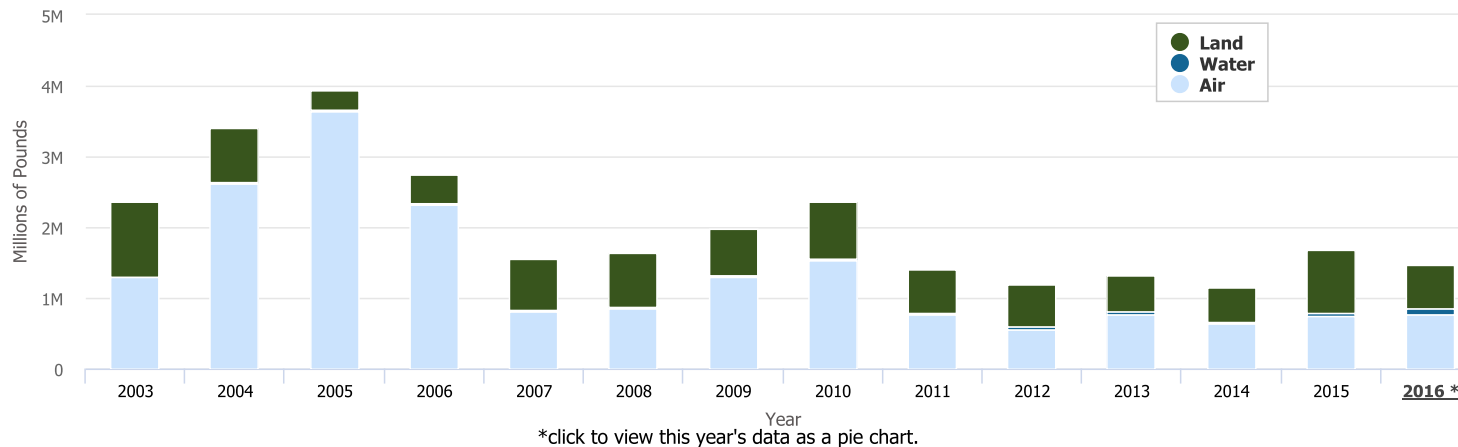


*click to view this year's data as a pie chart.

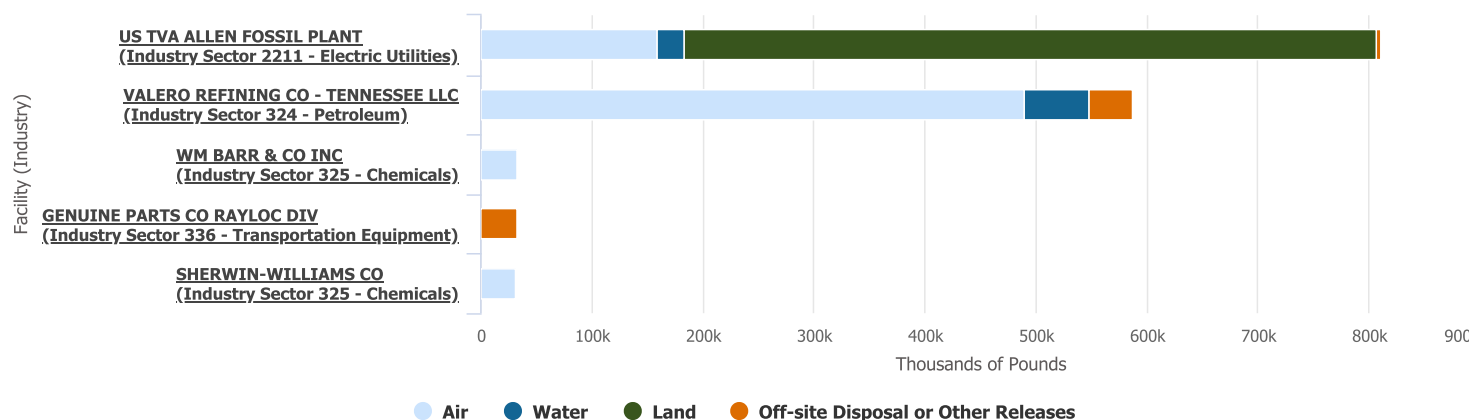


The following charts represent releases of TRI-covered chemicals to the environment in ZIP Code 38109. A "release" of a chemical means that it is emitted to the air or water, placed in some type of land disposal, or transferred off-site for disposal or release.

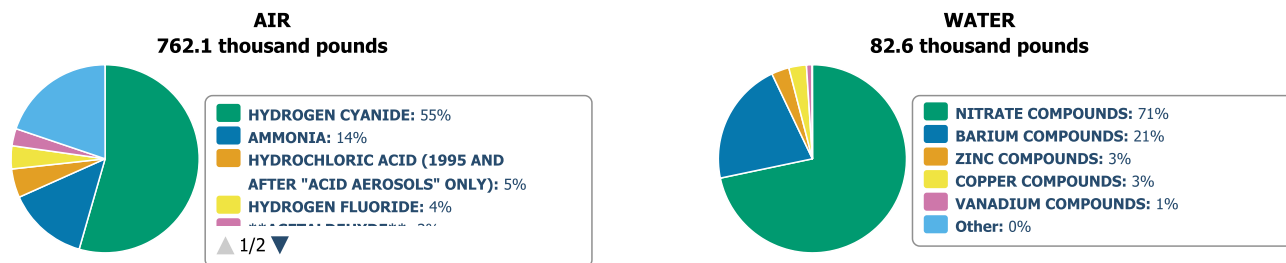
Total On-site Releases by Environmental Medium ZIP Code 38109, 2003 - 2015



Top Five Facilities by Total Disposal or Other Releases ZIP Code 38109, 2016



Top Five Chemicals Released to Air and Water ZIP Code 38109, 2016



Note: **=Carcinogenic Chemical

Note: Trend graphs were created using the 2001 core chemicals/industries list.

Appendix G – Endangered Species

South Cypress Creek Watershed and West Junction
Neighborhood Redevelopment



U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
WASHINGTON, DC 20410-1000

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Endangered Species Act (CEST and EA) – PARTNER

hudexchange.info/environmental-review/endangered-species

1. Does the project involve any activities that have the potential to affect species or habitats?

☐ No, the project will have No Effect due to the nature of the activities involved in the project.

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide any documents used to make your determination.

☐ No, the project will have No Effect based on a letter of understanding, memorandum of agreement, programmatic agreement, or checklist provided by local HUD office.

Explain your determination:

[Click here to enter text.](#)

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide any documents used to make your determination.

☒ Yes, the activities involved in the project have the potential to affect species and/or habitats. → Continue to Question 2.

2. Are federally listed species or designated critical habitats present in the action area?

Obtain a list of protected species from the Services. This information is available on the FWS Website.

☐ No, the project will have No Effect due to the absence of federally listed species and designated critical habitat.

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide any documents used to make your determination. Documentation may include letters from the Services, species lists from the Services’ websites, surveys or other documents and analysis showing that there are no species in the action area.

☒ Yes, there are federally listed species or designated critical habitats present in the action area. → Continue to Question 3.

3. Recommend one of the following effects that the project will have on federally listed species or designated critical habitat:

☒ No Effect: Based on the specifics of both the project and any federally listed species in the action area, you have determined that the project will have absolutely no effect on listed species or critical habitat.

→ *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide any documents used to make your determination. Documentation should include a species list and explanation of your conclusion, and may require maps, photographs, and surveys as appropriate.*

☐ May Affect, Not Likely to Adversely Affect: Any effects that the project may have on federally listed species or critical habitats would be beneficial, discountable, or insignificant.

→ Partner entities should not contact the Services directly. *If the RE/HUD agrees with this recommendation, they will have to complete Informal Consultation. Provide the RE/HUD with a biological evaluation or equivalent document. They may request additional information, including surveys and professional analysis, to complete their consultation.*

☐ Likely to Adversely Affect: The project may have negative effects on one or more listed species or critical habitat.

→ Partner entities should not contact the Services directly. *If the RE/HUD agrees with this recommendation, they will have to complete Formal Consultation. Provide the RE/HUD with a biological evaluation or equivalent document. They may request additional information, including surveys and professional analysis, to complete their consultation.*

Worksheet Summary

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

Include all documentation supporting your findings in your submission to HUD.

Brophy- Heineke & Associates: Summer Roosting Habitat Assessment (dated 2.26.2018) suggested that potential habitat for Indiana Bat and/or Northern Long-eared Bat may be present in the project area.

U. S. Fish and Wildlife Service response dated 3.21.2019 states “Although there appears to be Indiana bat and northern long-eared bat roosting habitat on the site, the area is outside of any known occurrence buffers, and recent bat surveys in the general area have not indicated presence of either species. Based on this, we would not anticipate adverse impacts to the Indiana or northern long-eared bat as a result of the project.”

From: Robbie Sykes <robbie_sykes@fws.gov>
Sent: Thursday, March 21, 2019 3:14 PM
To: Margaret Lee <MJ_Lee@bellsouth.net>
Cc: Nisha Powers <npowers@phdmemphis.com>
Subject: RE: [EXTERNAL] Cypress Creek Resiliency Study

Margaret,

Personnel with the U.S. Fish and Wildlife Service have reviewed the material provided regarding the Cypress Creek Resiliency Study in Memphis, Shelby County, Tennessee. Although there appears to be Indiana bat and northern long-eared bat roosting habitat on the site, the area is outside of any known occurrence buffers, and recent bat surveys in the general area have not indicated presence of either species. Based on this, we would not anticipate adverse impacts to the Indiana or northern long-eared bat as a result of the project.

Information available to the Service does not suggest that federally protected species or designated critical habitat occur within the impact area of this project. Upon consideration of information available at this time, we would not anticipate the proposed action to affect federally listed species. We note, however, that collection records available to the Service may not be all-inclusive. Our database is a compilation of collection records made available by various individuals and resource agencies. This information is seldom based on comprehensive surveys of all potential habitat and thus does not necessarily provide conclusive evidence that protected species are present or absent at a specific locality.

Sincerely,

Robbie Sykes
Supervisory Fish and Wildlife Biologist
U.S. Fish and Wildlife Service
446 Neal Street
Cookeville, TN 38501
(tele. 931/525-4979)

From: Margaret Lee <MJ_Lee@bellsouth.net>
Sent: Tuesday, March 19, 2019 4:07 PM
To: Robbie Sykes <robbie_sykes@fws.gov>
Cc: Nisha Powers <npowers@phdmemphis.com>
Subject: [EXTERNAL] Cypress Creek Resiliency Study

Good afternoon, Robbie:

As part of the NEPA review, we conducted a habitat survey for the Indiana bat and northern long-eared bat for the proposed Cypress Creek Resiliency Study, a flood control and restoration project. The resiliency study site encompasses 869 acres adjacent to Cypress Creek in Memphis, Shelby County, Tennessee. Attached is a copy of our report for your review. The site contains roughly 4.5 miles of stream channels and 13 wetlands totaling 58.53 acres. As you can imagine

with a site this big, it does contain some summer roosting habitat and a lot of good feeding habitat.

I would greatly appreciate it if you could give me a call at your earliest convenience. I have some questions and would like to discuss the anticipated trajectory for getting USFWS clearance for this project.

Thank you very much,

Margaret J. Lee
Wetland Scientist

BROPHY-HEINEKE & ASSOCIATES, INC.
2978 Shelby Street
Bartlett, Tennessee 38134

(901) 373-3289
mj_lee@bellsouth.net



United States Department of the Interior

FISH AND WILDLIFE SERVICE
Tennessee Ecological Services Field Office
446 Neal Street
Cookeville, TN 38501-4027
Phone: (931) 528-6481 Fax: (931) 528-7075



In Reply Refer To:

June 30, 2019

Consultation Code: 04ET1000-2019-SLI-0745

Event Code: 04ET1000-2019-E-01409

Project Name: South Cypress Creek

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (fws.gov/windenergy/) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm>; towerkill.com; and fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List
-

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Tennessee Ecological Services Field Office

446 Neal Street

Cookeville, TN 38501-4027

(931) 528-6481

Project Summary

Consultation Code: 04ET1000-2019-SLI-0745

Event Code: 04ET1000-2019-E-01409

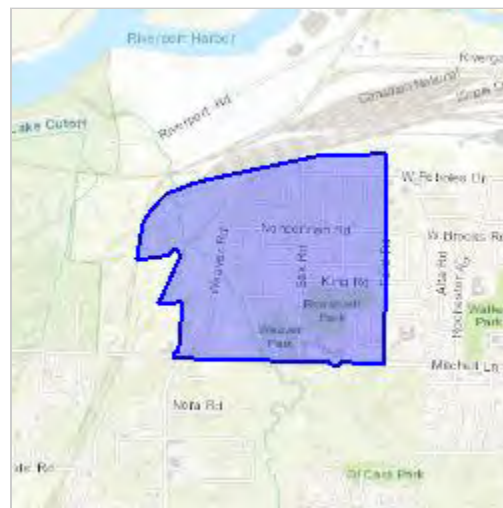
Project Name: South Cypress Creek

Project Type: Federal Grant / Loan Related

Project Description: The South Cypress Creek Restoration Project activities will restore and preserve the natural and beneficial functions of the floodplain and wetlands. The proposed West Junction Neighborhood Redevelopment activities will include the acquisition of properties located in the floodplain and permanently dedicate those properties for use of flood control and protect them from future development through the Voluntary Buyout Program. Additionally, vacant lots located outside the floodplain in the Neighborhood will be redeveloped for various beneficial community uses.

Project Location:

Approximate location of the project can be viewed in Google Maps



Counties: Shelby, TN

Endangered Species Act Species

There is a total of 2 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

-
1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Mammals

| NAME | STATUS |
|---|------------|
| Indiana Bat <i>Myotis sodalis</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: ecos.fws.gov/ecp/species/5949 | Endangered |
| Northern Long-eared Bat <i>Myotis septentrionalis</i> No critical habitat has been designated for this species. Species profile: ecos.fws.gov/ecp/species/9045 | Threatened |

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.



February 26, 2018

Nisha Powers
Powers Hill Design
80 Monroe Avenue, Suite 420
Memphis, Tennessee 38103

**Re: Cypress Creek Resiliency Study
Indiana Bat and Northern Long-Eared Bat
Summer Roosting Habitat Assessment
Memphis, Shelby County, Tennessee**

Dear Ms. Powers:

Between September and November of 2017, field investigations were performed for the Cypress Creek Resiliency Study. The resiliency study encompasses 869 acres adjacent to Cypress Creek in Memphis, Shelby County, Tennessee. For further reference, a site location map based upon the 1:24,000 Southwest Memphis, Tennessee USGS topographic quadrangle is enclosed.

During the investigations, the site was assessed for summer roosting habitat suitable for use by the federally endangered Indiana bat (*Myotis sodalis*) and federally threatened northern long-eared bat (*Myotis septentrionalis*). This habitat assessment was conducted in accordance with the U.S. Fish and Wildlife Service's 2016 Range-wide Indiana Bat Summer Survey Guidelines (April 2016).

INTRODUCTION

Indiana and northern long-eared bats typically roost within tree cavities or underneath thick slabs of exfoliating bark in the late spring and summer months. A wide variety of species can be utilized, but mostly only older, dying or dead trees have the required cavities and/or bark characteristics. However, species like shag-bark hickory (*Carya ovata*), which have naturally exfoliating bark, may provide habitat even where no decay or cavities are present. Roost trees are often in canopy gaps or along forest edges where direct sunlight is available for at least part of the day. Suitability of roost trees may also be limited by accessibility to water and foraging habitat. Indiana bats typically forage in semi-open areas or areas with a relatively open understory. Riparian and floodplain forests, as well as upland forests, may be used for roosting and foraging. The northern long-eared bat can utilize a wider range of summer roosting habitat than the Indiana bat. Like the Indiana bat, they may roost under exfoliating bark and in tree cavities and crevices, but they may also roost in the summer in caves, mines, barns, and sheds.

METHODS

Due to the large acreage of the site, transects were walked through the site. While walking the transects, the site was investigated for suitable habitat structures for roosting, foraging or travel. The site was assessed for species composition, tree size classes, potential sunlight penetration, openness of canopy and understory, and the presence or absence of trees with exfoliating bark or cavities. The site was also assessed for water and feeding resources and potential flight corridors to these resources and other forested habitat. Special attention was paid to any relatively open areas or areas with a relatively open understory.

Trees were judged to be potentially suitable if they were over 10 feet tall and 5 inches diameter at breast height (DBH), had slabs of exfoliating bark and/or relatively deep cracks or crevices, and were in areas sufficiently open to be accessed by Indiana or northern long-eared bats. Snags which either had only tight bark, very thinly peeling bark (such as found on dead sycamore trees) or completely lacked bark or lacked suitable cracks and crevices were considered unsuitable. Shallow crevices caused by woodpeckers or natural rot were considered unsuitable. Trees were also judged to be unsuitable if the required bark feature was covered by vines or surrounded by very dense vegetation.

GENERAL SITE CHARACTERISTICS

The Cypress Creek Resiliency Study encompasses 869 acres of land adjacent to Cypress Creek in Southwest Memphis, Tennessee. Although the surrounding area is predominantly urban, the project area contains large acreages of forested habitat. Mature forested habitat was common within the review area. For the most part, the forested areas consist of riparian habitat along Cypress Creek and its tributaries. As shown on the Potential Feeding Habitat and Water Resources Map, roughly 4.5 miles of streams and 13 wetlands were identified in the review area. A variety of wetland habitats including mature forested wetlands, scrub shrub wetlands, and herbaceous wetlands are present. Representative photos of streams and wetland habitats found on the site are provided in the attached photographic documentation. The wetlands and streams will provide both perennial and seasonal water resources and feeding habitats.

In addition to providing water and feeding resources, Cypress Creek and its tributaries could provide flight corridors to other locations along Cypress Creek. Bats could also potentially use Cypress Creek as a means by which to access McKellar Lake which is approximately 0.8-mile down-stream of the project area. From McKellar Lake, both Nonconnah Creek and the Mississippi River are readily accessible. From the mouth of Cypress Creek, the Mississippi River is approximately 3.8 miles and Nonconnah Creek is approximately 1 mile. Numerous locations could be accessed from the Mississippi River.

A diversity of mature forested areas are located within the review area (see photo documentation). Trees species commonly observed on the site include American sycamore (*Platanus occidentalis*), cottonwood (*Populus deltoides*), red maple (*Acer rubrum*), green ash (*Fraxinus pennsylvanica*), and boxelder (*Acer negundo*). Within upland portions of the site, American beech (*Fagus grandifolia*), southern magnolia (*Magnolia grandifolia*), hickory (*Carya*) species, and oak (*Quercus*) species were common. In wetter areas, American elm (*Ulmus americana*), hackberry (*Celtis laevigata*) and bald cypress (*Taxodium distichum*) were noted.

POTENTIAL ROOST TREES

Mature forested habitat is readily available within the review area. Snags were observed in various locations across the site within the transects. Large-sized black willow trees with naturally exfoliating bark characteristics were common in wetland areas.

Please refer to the attached photographic documentation for representative examples of potentially suitable snags and trees observed on the site.

CONCLUSIONS

The review area for the study encompasses 869 acres of land containing a variety of habitat types, including upland forested areas, forested wetlands, and scrub-shrub wetlands. Mature forested areas containing both snags and trees with naturally exfoliating bark characteristics were commonly encountered within the review area. The review area also contains abundant water resources and feeding habitat. Flight corridors are present within the review area as well. The perennial stream, Cypress Creek, and its tributaries could provide a flight corridor to other locations along Cypress Creek. In addition, bats could potentially use Cypress Creek as a means by which to access McKellar Lake which is approximately 0.8-mile down-stream of the project area. From McKellar Lake, both Nonconnah Creek and the Mississippi River are readily accessible. For these reasons, the project area contains habitat suitable for summer roosting by both the Indiana bat and the northern long-eared bat.

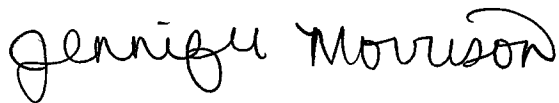
Due to the large acreage of the project, it is recommended that a more detailed survey be performed on portions of the review area where tree clearing will occur. Some portions of the site, such as the residential areas and schools, are less likely to contain suitable bat habitat. However, due to the prevalence of mature forested areas containing snags and trees with naturally exfoliating bark characteristics, it may be necessary to perform a Phase II or Phase III assessment during the maternity season (May-September) prior to the removal of trees from the site.

In conclusion, the project area does contain potentially suitable summer roosting habitat for the Indiana bat and northern long-eared bat. In support of this assessment, the following items are enclosed:

1. Topographic Site Location Map;
 2. Vicinity Map Showing 5-Mile Radius,
 3. Potential Feeding Habitat and Water Resources Map; and
 4. Representative Photographic Documentation.
-

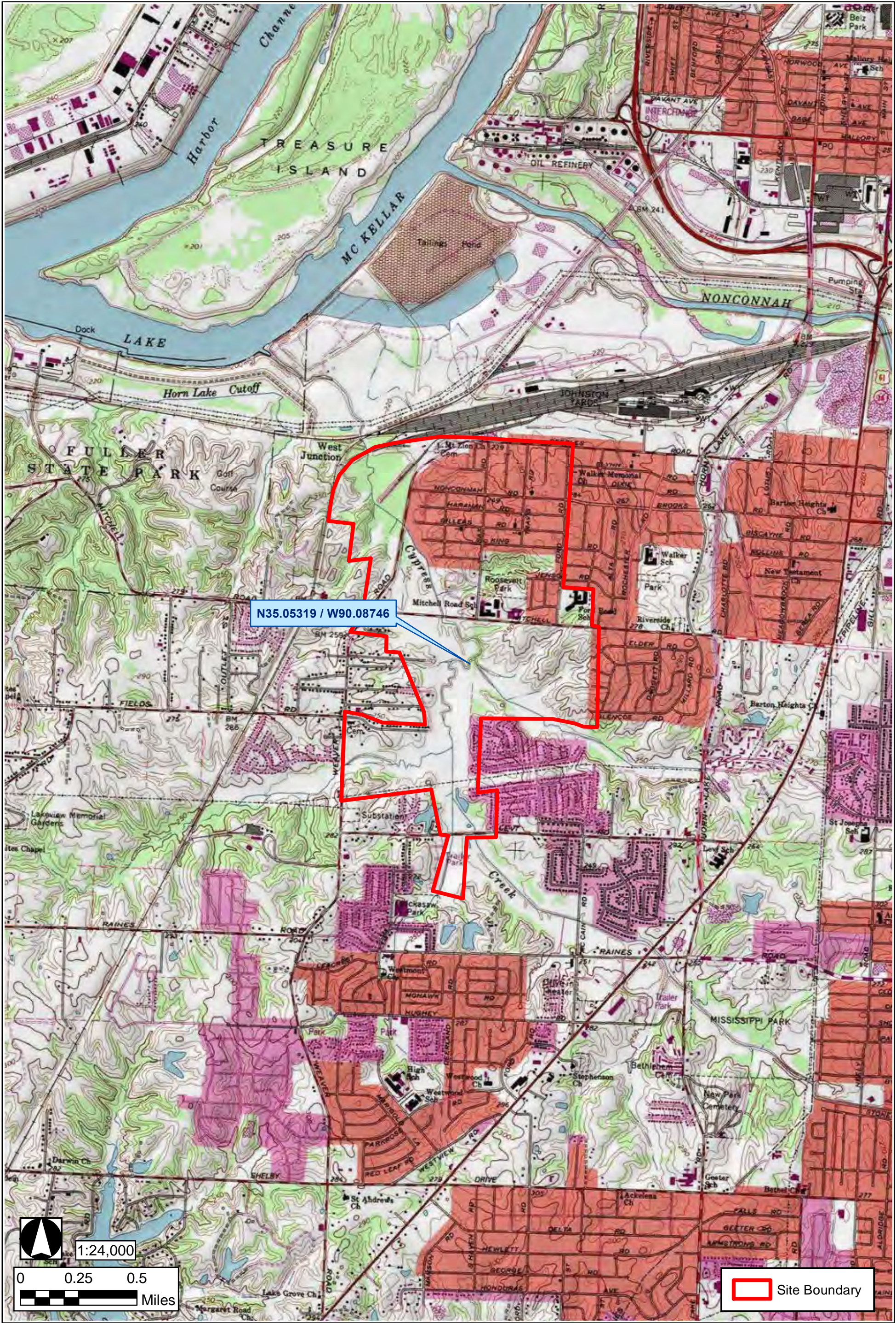
Should you have any questions about this report, please contact me at (901) 373-3289 or via email at jlmorrison@bellsouth.net. Thank you.

Sincerely,

A handwritten signature in cursive script that reads "Jennifer Morrison". The signature is written in dark ink and is positioned above the printed name and title.

Jennifer Morrison
Biologist

Resiliency Study - Cypress Creek
Summer Roosting Habitat Survey
Topographic Location Map

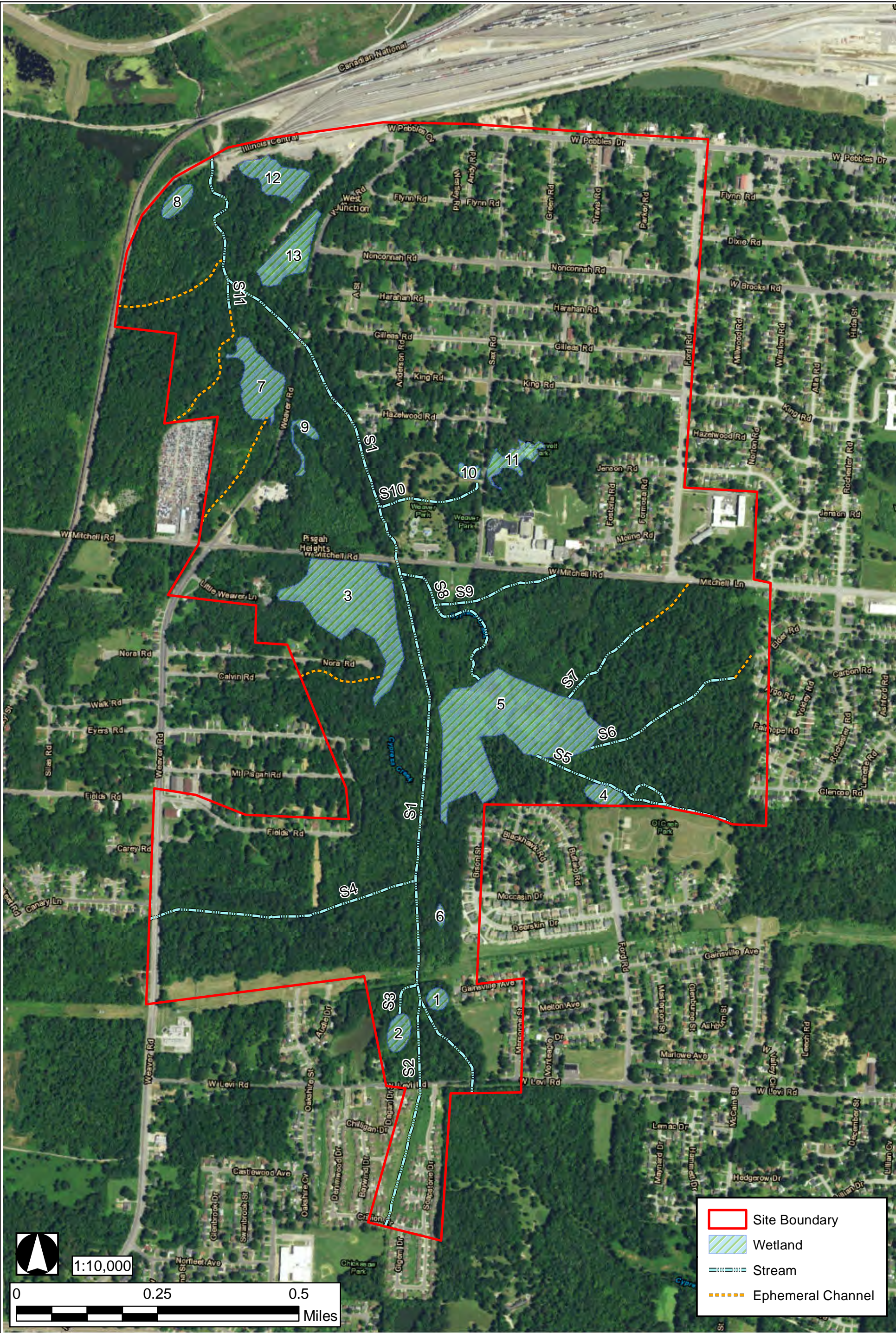


Map based upon the 1:24,000 Southwest Memphis USGS Topographic Quadrangle

Resiliency Study - Cypress Creek
Summer Roosting Habitat Survey
Vicinity Map



Resiliency Study - Cypress Creek
Summer Roosting Habitat Survey
Potential Feeding Habitat and Water Resources



*The location of streams, wet-weather conveyances, and wetlands are approximate.
The location of watercourses is based on aerial photo interpretation and select field observations.

PHOTOGRAPHIC DOCUMENTATION

Summer Roosting Habitat Survey / September – November 2017



Photo 1: An example of mesic habitat observed within the southern portion of the site. This forested area was located north of Levi Road and west of Ford Road near the terminus of Gainsville Avenue (N35.0451° / W90.0876°). This area, which is adjacent to and east of Cypress Creek, appears to be open and accessible to bats. This area contained a diversity of mature trees, including American sycamore (*Platanus occidentalis*), eastern cottonwood (*Populus deltoides*), red maple (*Acer rubrum*), green ash (*Fraxinus pennsylvanica*), and boxelder (*Acer negundo*).



Photo 2: View of the canopy as observed in the same location as Photo 1. This photo is representative of habitat across much of the project area.



Photo 3: Representative photo of upland habitat observed on the site. Trees commonly observed within the forested upland portions of the site included species such as American beech (*Fagus grandifolia*), hickory (*Carya*) species, and oak (*Quercus*) species.



Photo 4: Example of habitat encountered on the site with a denser composition of understory trees and shrubs. Japanese privet (*Ligustrum sinense*) was present within the understory of a large portion of the review area. The density of the understory in locations such as this could be a deterrent to bats. The location of this photo is within the forested area north of Levi Road and east of Weaver Road (N35.0463° / W90.0913°).



Photo 5: The majority of the forested land within the review area is mature; however, some areas of young trees are present, such as shown in this photo. This area would not be considered suitable bat habitat due to the density and small size of trees in this area. The location of this photo is southeast of the intersection of Mitchell Road at Sax Road (N35.0552° / W90.0850°).



Photo 6: Representative photo of mature forested wetland habitat observed on the site. In this location (Wetland 7), both the understory and midstory of the forest are open and accessible to bats. This wetland also provides a seasonal water resource and feeding habitat. Trees typically observed in wetland areas of the site included American elm (*Ulmus americana*), hackberry (*Celtis laevigata*), black willow (*Salix nigra*), red maple, American sycamore, eastern cottonwood, and oak species. Scattered bald cypress (*Taxodium distichum*) trees were also found within wetlands on the site.



Photo 7: A second representative photo of forested wetland habitat (Wetland 9) present on the site. Both the understory and midstory of the forest in this location are open and accessible to bats. This forested area also provides a seasonal water resource and feeding habitat.



Photo 8: A third representative photo of forested wetland habitat observed within the project area. This photo is of Wetland 3. Both the understory and midstory within this area are relatively open and accessible to bats. This area likely provides a perennial water resource and feeding habitat.



Photo 9: A representative photo of scrub-shrub habitat within the project area (Wetland 3). This area is open and accessible to bats as a perennial water resource and feeding habitat.



Photo 10: A second photo of the scrub-shrub habitat in which two bald cypress snags were identified.



Photo 11: Another scrub-shrub wetland area (part of Wetland 5). As visible in the background of the photo, numerous snags were present within the open portion of this wetland. The trees were likely stressed by permanent inundation resulting from beaver activities.



Photo 12: Representative photo of herbaceous wetland habitat observed on the site. The location of this photo is within the northeast corner of Weaver Park (Wetland 10). This wetland potentially provides a seasonal water resource and feeding habitat.



Photo 13: Another wetland area that potentially provides a perennial water resource and feeding habitat. This wetland area (Wetland 11) is located in Roosevelt Park, just east of Sax Road.



Photo 14: Representative photo of Cypress Creek. Cypress Creek is a perennial stream which could provide a flight corridor to forested areas along its length as well as McKellar Lake, Nonconah Creek, and the Mississippi River. This stream provides a perennial water resource and feeding habitat.



Photo 15: Example of an old meander (Stream 8) of Cypress Creek (prior to its channelization). This channel may also provide a perennial water resource and feeding habitat.



Photo 16: A water resource (Stream 5) located at the edge of OL Cash Park within the southeast portion of the project area. As identified by the arrow, a snag is located at the edge of the forest. Therefore, potential roost habitat (the snag), feeding habitat, and a water resource are present in this location.



Photo 17: Representative photo of one of the intermittent streams (Stream 4) located within the project area. Intermittent streams, like this one, provide a seasonal water resource and feeding habitat.



Photo 18: A representative photo of another of the intermittent streams (Stream 9) located within the project area. This feature provides a seasonal water resource and feeding habitat.



Photo 19: Example of one of the snags observed within the project area. Most of the bark had sloughed off the lower portion of the snag, but bark remained within the upper portions. This snag is located within the forested area east of Weaver Road and north of Levi Road, near the terminus of Oakshire Street (N35.04568° / W90.09230°).



Photo 20: Another example of a snag observed within the project area. This black willow snag was observed within the forested area east of Weaver Road and south of Mitchell Road near the terminus of Nora Road (N35.0527° / W90.0896°).



Photo 21: An example of a tree with naturally exfoliating bark characteristics. The exfoliating bark of this large black willow tree could provide potential roosting habitat. This tree was located within the forested area east of Weaver Road and north of Levi Road, near the terminus of Oakshire Street (N35.04750° / W90.09327°). Several other large black willow trees with similar bark were observed near this location as well as in other locations within the project area.

Appendix H – Explosive and Flammable Hazards

South Cypress Creek Watershed and West Junction
Neighborhood Redevelopment



U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
WASHINGTON, DC 20410-1000

This Worksheet was designed to be used by those “Partners” (including Public Housing Authorities, consultants, contractors, and nonprofits) who assist Responsible Entities and HUD in preparing environmental reviews, but legally cannot take full responsibilities for these reviews themselves. Responsible Entities and HUD should use the RE/HUD version of the Worksheet.

Explosive and Flammable Hazards (CEST and EA) – PARTNER

- 1. Does the proposed HUD-assisted project include a hazardous facility (a facility that mainly stores, handles or processes flammable or combustible chemicals such as bulk fuel storage facilities and refineries)?**

☒ No

→ Continue to Question 2.

☐ Yes

Explain:

[Click here to enter text.](#)

→ Continue to Question 5.

- 2. Does this project include any of the following activities: development, construction, rehabilitation that will increase residential densities, or conversion?**

☒ No → If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below.

☐ Yes → Continue to Question 3.

- 3. Within 1 mile of the project site, are there any current *or planned* stationary aboveground storage containers:**

- Of more than 100-gallon capacity, containing common liquid industrial fuels OR
- Of any capacity, containing hazardous liquids or gases that are not common liquid industrial fuels?

☐ No → If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide all documents used to make your determination.

☒ Yes → Continue to Question 4.

- 4. Is the Separation Distance from the project acceptable based on standards in the Regulation?**

Please visit HUD’s website for information on calculating Acceptable Separation Distance.

☒ Yes

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below.

Provide map(s) showing the location of the project site relative to any tanks and your separation distance calculations. If the map identifies more than one tank, please identify the tank you have chosen as the “assessed tank.”

☐ No

→ Continue to Question 6.

Provide map(s) showing the location of the project site relative to any tanks and your separation distance calculations. If the map identifies more than one tank, please identify the tank you have chosen as the “assessed tank.”

5. Is the hazardous facility located at an acceptable separation distance from residences and any other facility or area where people may congregate or be present?

Please visit HUD’s website for information on calculating Acceptable Separation Distance.

☒ Yes

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below.

Provide map(s) showing the location of the project site relative to residences and any other facility or area where people congregate or are present and your separation distance calculations.

☐ No

→ Continue to Question 6.

Provide map(s) showing the location of the project site relative to residences and any other facility or area where people congregate or are present and your separation distance calculations.

6. For the project to be brought into compliance with this section, all adverse impacts must be mitigated. Explain in detail the exact measures that must be implemented to make the Separation Distance acceptable, including the timeline for implementation. If negative effects cannot be mitigated, cancel the project at this location.

Note that only licensed professional engineers should design and implement blast barriers. If a barrier will be used or the project will be modified to compensate for an unacceptable separation distance, provide approval from a licensed professional engineer.

[Click here to enter text.](#)

Worksheet Summary

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

Include all documentation supporting your findings in your submission to HUD.

The Valero Refinery site is located ~5,000 feet north of the project site. This site has multiple stationary above-ground bulk storage facilities for petroleum products. All of the storage tanks are located within secondary containment dikes. The largest group of above-ground tanks located near the southern

boundary of the Valero site were assessed using the HUD Acceptable Separation Distance (ASD) Assessment Tool. The ASD for thermal radiation for people for this group of tanks was 1,606 feet (see attached worksheet results). The Project Site is well beyond this distance.

The attached map shows the location of the Valero site relative to the Project Site.

[Home \(/\)](#) > [Programs \(/programs/\)](#) > [Environmental Review \(/programs/environmental-review/\)](#) > ASD Calculator

Acceptable Separation Distance (ASD) Electronic Assessment Tool

The Environmental Planning Division (EPD) has developed an electronic-based assessment tool that calculates the Acceptable Separation Distance (ASD) from stationary hazards. The ASD is the distance from above ground stationary containerized hazards of an explosive or fire prone nature, to where a HUD assisted project can be located. The ASD is consistent with the Department's standards of blast overpressure (0.5 psi-buildings) and thermal radiation (450 BTU/ft² - hr - people and 10,000 BTU/ft² - hr - buildings). Calculation of the ASD is the first step to assess site suitability for proposed HUD-assisted projects near stationary hazards. Additional guidance on ASDs is available in the Department's guidebook "Siting of HUD- Assisted Projects Near Hazardous Facilities" and the regulation 24 CFR Part 51, Subpart C, Sitting of HUD-Assisted Projects Near Hazardous Operations Handling Conventional Fuels or Chemicals of an Explosive or Flammable Nature.

Note: Tool tips, containing field specific information, have been added in this tool and may be accessed by hovering over the ASD result fields with the mouse.

Acceptable Separation Distance Assessment Tool

Is the container above ground?

Yes: ☒ No: ☐

Is the container under pressure?

Yes: ☐ No: ☒

Does the container hold a cryogenic liquified gas?

Yes: ☐ No: ☐

Is the container diked?

Yes: ☒ No: ☐

What is the volume (gal) of the container?

What is the Diked Area Length (ft)?

What is the Diked Area Width (ft)?

Calculate Acceptable Separation Distance

| | |
|---|---------|
| Diked Area (sqft) | 270000 |
| ASD for Blast Over Pressure (ASDBOP) | |
| ASD for Thermal Radiation for People (ASDPPU) | |
| ASD for Thermal Radiation for Buildings (ASDBPU) | |
| ASD for Thermal Radiation for People (ASDPNPD) | 1606.24 |
| ASD for Thermal Radiation for Buildings (ASDBNPD) | 352.18 |

For mitigation options, please click on the following link: [Mitigation Options \(/resource/3846/acceptable-separation-distance-asd-hazard-mitigation-options/\)](/resource/3846/acceptable-separation-distance-asd-hazard-mitigation-options/)

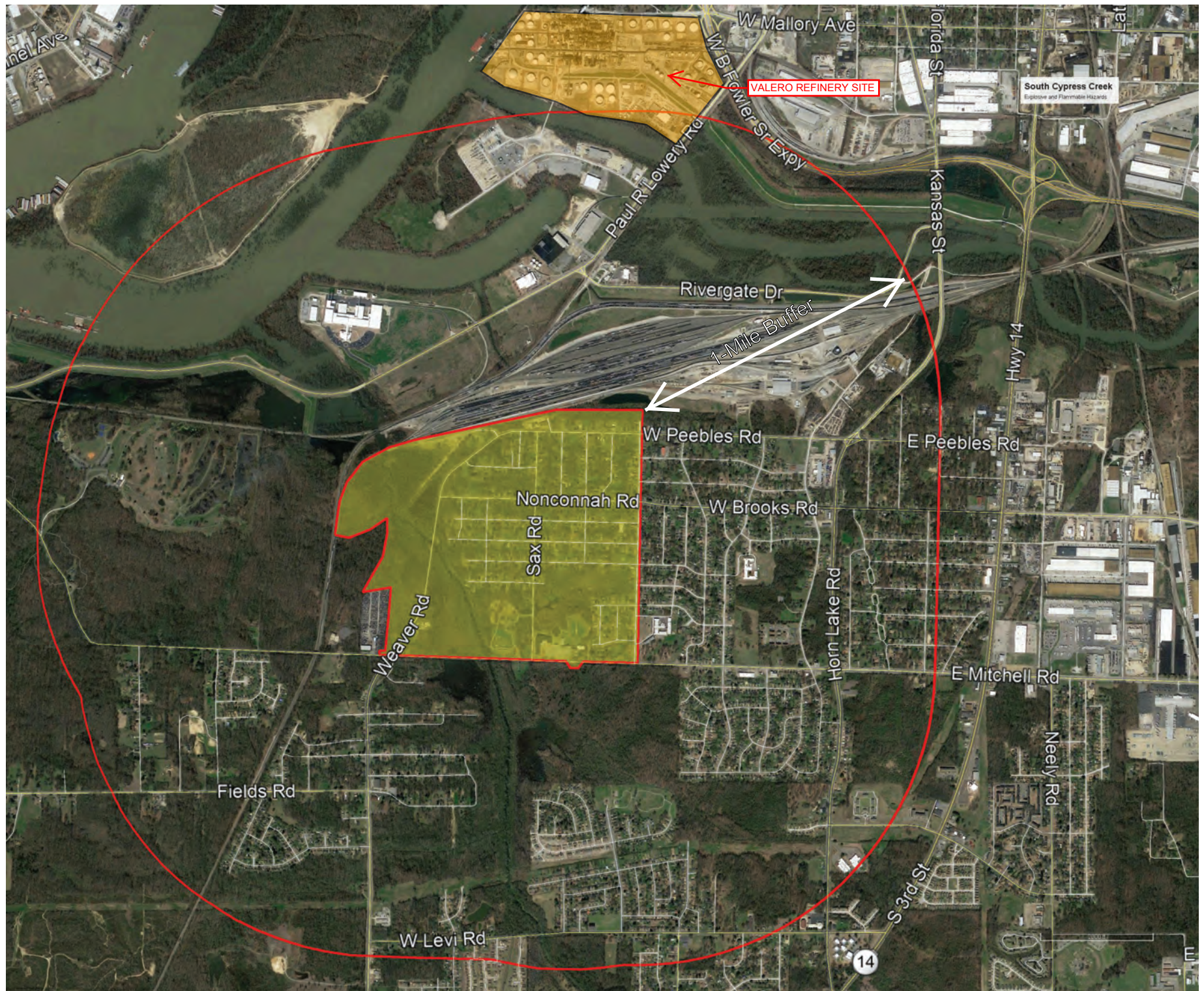
Providing Feedback & Corrections

After using the ASD Assessment Tool following the directions in this User Guide, users are encouraged to provide feedback on how the ASD Assessment Tool may be improved. Users are also encouraged to send comments or corrections for the improvement of the tool.

Please send comments or other input using [Ask A Question \(/ask-a-question/my-question/\)](/ask-a-question/my-question/). Enter "Environmental Review" in the "My question is related to" field.

Related Information

- [ASD User Guide \(/resource/3839/acceptable-separation-distance-asd-assessment-tool-user-guide/\)](/resource/3839/acceptable-separation-distance-asd-assessment-tool-user-guide/)
- [ASD Flow Chart \(/resource/3840/acceptable-separation-distance-asd-flowchart/\)](/resource/3840/acceptable-separation-distance-asd-flowchart/)



Appendix I – Farmlands Protection

South Cypress Creek Watershed and West Junction
Neighborhood Redevelopment



U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
WASHINGTON, DC 20410-1000

This Worksheet was designed to be used by those “Partners” (including Public Housing Authorities, consultants, contractors, and nonprofits) who assist Responsible Entities and HUD in preparing environmental reviews, but legally cannot take full responsibilities for these reviews themselves. Responsible Entities and HUD should use the RE/HUD version of the Worksheet.

Farmlands Protection (CEST and EA) - PARTNER

1. Does your project include any activities, including new construction, acquisition of undeveloped land or conversion, that could convert agricultural land to a non-agricultural use?

☐ Yes → *Continue to Question 2.*

☒ No

→ *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below.*

2. Does “important farmland,” including prime farmland, unique farmland, or farmland of statewide or local importance regulated under the Farmland Protection Policy Act, occur on the project site?

You may use the links below to determine important farmland occurs on the project site:

- Utilize USDA Natural Resources Conservation Service’s (NRCS) Web Soil Survey
- Check with your city or county’s planning department and ask them to document if the project is on land regulated by the FPPA (zoning important farmland as non-agricultural does not exempt it from FPPA requirements)
- Contact NRCS at the local USDA service center or your NRCS state soil scientist for assistance

☒ No → *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide any documents used to make your determination.*

☐ Yes → *Continue to Question 3.*

3. Consider alternatives to completing the project on important farmland and means of avoiding impacts to important farmland.

- Complete form [AD-1006, “Farmland Conversion Impact Rating”](#) and contact the state soil scientist before sending it to the local NRCS District Conservationist.
- Work with NRCS to minimize the impact of the project on the protected farmland. When you have finished with your analysis, return a copy of form AD-1006 to the USDA-NRCS State Soil Scientist or his/her designee informing them of your determination.

Work with the RE/HUD to determine how the project will proceed. Document the conclusion:

☐ Project will proceed with mitigation.

Explain in detail the proposed measures that must be implemented to mitigate for the impact or effect, including the timeline for implementation.

[Click here to enter text.](#)

→ *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide form AD-1006 and all other documents used to make your determination.*

☐ Project will proceed without mitigation.

Explain why mitigation will not be made here:

[Click here to enter text.](#)

→ *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide form AD-1006 and all other documents used to make your determination.*

Worksheet Summary

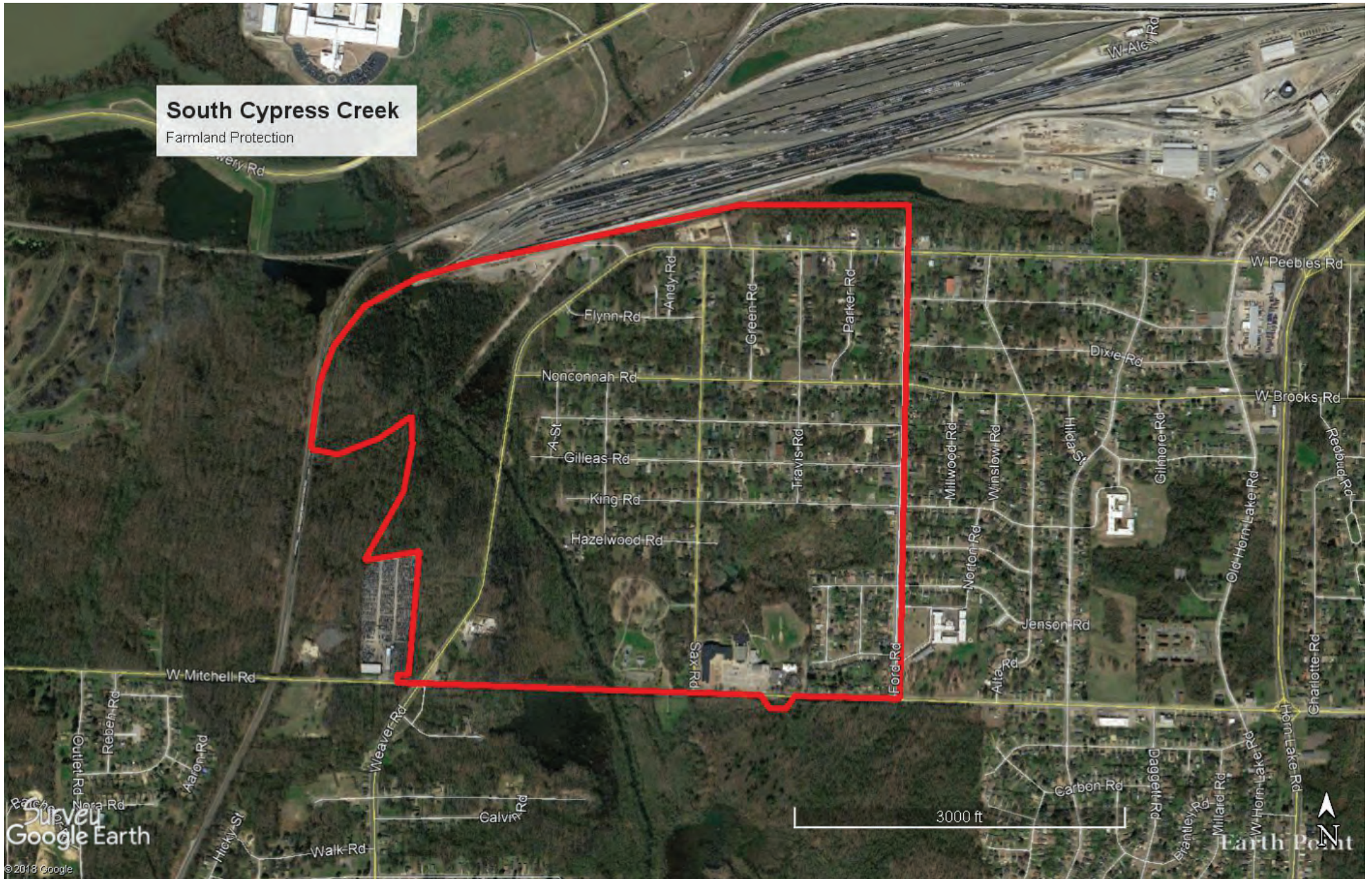
Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

Include all documentation supporting your findings in your submission to HUD.

The proposed site is within a developed urbanized area with no property within the project being used as farmland. The proposed project will not convert any property to farmland.

Farmland Protection



Appendix J – Floodplain Management

South Cypress Creek Watershed and West Junction Neighborhood Redevelopment



This Worksheet was designed to be used by those “Partners” (including Public Housing Authorities, consultants, contractors, and nonprofits) who assist Responsible Entities and HUD in preparing environmental reviews, but legally cannot take full responsibilities for these reviews themselves. Responsible Entities and HUD should use the RE/HUD version of the Worksheet.

Floodplain Management (CEST and EA) – PARTNER

hudexchange.info/environmental-review/floodplain-management

1. Does 24 CFR 55.12(c) exempt this project from compliance with HUD’s floodplain management regulations in Part 55?

☐ Yes

Provide the applicable citation at 24 CFR 55.12(c) here. If project is exempt under 55.12(c)(6) or (8), provide supporting documentation.

[Click here to enter text.](#)

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Continue to the Worksheet Summary.

☒ No → Continue to Question 2.

2. Provide a FEMA/FIRM map showing the site.

The Federal Emergency Management Agency (FEMA) designates floodplains. The [FEMA Map Service Center](#) provides this information in the form of FEMA Flood Insurance Rate Maps (FIRMs).

Does your project occur in a floodplain?

☐ No → Continue to the Worksheet Summary below.

☒ Yes

Select the applicable floodplain using the FEMA map or the best available information:

☐ Floodway → Continue to Question 3, Floodways

☐ Coastal High Hazard Area (V Zone) → Continue to Question 4, Coastal High Hazard Areas

☒ 500-year floodplain (B Zone or shaded X Zone) → Continue to Question 5, 500-year Floodplains

☒ 100-year floodplain (A Zone) → The 8-Step Process is required. Continue to Question 6, 8-Step Process

3. **Floodways**

Is this a functionally dependent use?

☒ Yes

The 8-Step Process is required. Work with HUD or the RE to assist with the 8-Step Process.
→ Continue to Worksheet Summary.

- ☐ No → *Federal assistance may not be used at this location unless an exception in 55.12(c) applies. You must either choose an alternate site or cancel the project.*

4. Coastal High Hazard Area

Is this a critical action such as a hospital, nursing home, fire station, or police station?

- ☐ Yes → *Critical actions are prohibited in coastal high hazard areas unless an exception in 55.12(c) applies. You must either choose an alternate site or cancel the project.*

- ☒ No

Does this action include new construction that is not a functionally dependent use, existing construction (including improvements), or reconstruction following destruction caused by a disaster?

- ☐ Yes, there is new construction of something that is not a functionally dependent use.
New construction must be designed to FEMA standards for V Zones at 44 CFR 60.3(e) (24 CFR 55.1(c)(3)(i)).

→ Continue to Question 6, 8-Step Process

- ☒ No, this action concerns only existing construction.

Existing construction must have met FEMA elevation and construction standards for a coastal high hazard area or other standards applicable at the time of construction.

→ Continue to Question 6, 8-Step Process

5. 500-year Floodplain

Is this a critical action?

- ☐ No → *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Continue to the Worksheet Summary below.*

- ☒ Yes → Continue to Question 6, 8-Step Process

6. 8-Step Process.

Is this 8-Step Process required? Select one of the following options:

- ☒ 8-Step Process applies.

This project will require mitigation and may require elevating structure or structures. See the link to the HUD Exchange above for information on HUD's elevation requirements.

→ Work with the RE/HUD to assist with the 8-Step Process. Continue to Worksheet Summary.

- ☐ 5-Step Process is applicable per 55.12(a)(1-3).

Provide the applicable citation at 24 CFR 55.12(a) here.

[Click here to enter text.](#)

→ Work with the RE/HUD to assist with the 5-Step Process. Continue to Worksheet Summary.

- ☐ 8-Step Process is inapplicable per 55.12(b)(1-4).

Provide the applicable citation at 24 CFR 55.12(b) here.

Click here to enter text.

→ *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below.*

Worksheet Summary

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

Include all documentation supporting your findings in your submission to HUD.

Shelby County has followed the 8-step process for this project. The first and second ads for the 8-step process are attached, along with the FEMA maps covering the project area.

**EARLY NOTICE AND PUBLIC REVIEW OF A PROPOSED
ACTIVITY IN A WETLAND AND FLOODPLAIN
WITHIN THE SOUTH CYPRESS CREEK WATERSHED
IN SHELBY COUNTY, TENNESSEE**

To: All interested Federal, State and Local Agencies and Groups or Individuals

This is to give notice that Shelby County Government under Part 58 has conducted an evaluation as required by Executive Order 11988, to determine the potential affect that its activity in wetlands and the floodplain will have on the human environment for the South Cypress Creek Watershed and West Junction Neighborhood Redevelopment Project under the HUD National Disaster Resiliency Grant, Contract Number B-13-US-470002.

Shelby County Government is proposing a series of open space and infrastructure project elements that will help make the greater Memphis area more resilient in future disaster and flooding events. The South Cypress Creek Watershed and West Junction Neighborhood Redevelopment activity encompasses improvements in the South Cypress Creek drainage basin just south of Interstate 55 and in the West Junction Neighborhood. The project will entail two components as described hereinafter: (1) South Cypress Creek Restoration and, (2) West Junction Neighborhood Redevelopment

For this notice, all the proposed activities are located within or adjacent to the South Cypress Creek Floodplain. Additionally, there may be minor impacts on isolated wetlands. The South Cypress Creek Restoration project will affect approximately 46.2 acres of floodplain. Currently, additional wetland delineation efforts are underway to reconcile differences between wetland acreages as certified by the U.S. Army Corps of Engineers and wetland estimates from the Tennessee Department of Environment & Conservation. The intent of the project will be to maintain the total wetland acreage within the project area while looking for opportunities to restore wetlands where feasible. The West Junction Neighborhood Redevelopment improvements will affect approximately 11.4 acres of floodplain. The following describes the project locations and the proposed improvements:

The South Cypress Creek Restoration Project activities will restore and preserve the natural and beneficial functions of the floodplain and wetlands. The proposed West Junction Neighborhood Redevelopment activities will include the acquisition of properties located in the floodplain and permanently dedicate those properties for use of flood control and protect them from future development through the Voluntary Buyout Program. Additionally, vacant lots located outside the floodplain in the Neighborhood will be redeveloped for various beneficial community uses.

South Cypress Creek Restoration

The South Cypress Creek Restoration project will be adjacent to the existing Cypress Creek, north of W. Mitchell Road and just south of Riverport Road and the BNSF Railroad Crossing. The proposed project will expand stormwater capacity by removing obstructions, stabilizing the stream banks, and installing stormwater management facilities. These treatments will provide storage and detention of peak flows to reduce the flood stage and adjacent properties' risk of flooding. In addition to preserving existing wetlands, the proposed project will also expand existing or create new water receiving landscapes (i.e. constructed wetlands, rain gardens, bioswales and/or other natural stormwater BMPS), landforms, green open spaces, parks, and multi-purpose recreational trails that connect to the surrounding community. These elements will be designed to reduce the flood risk for the adjacent properties most susceptible to flooding within the project area, while also enhancing both the water quality and habitat of South Cypress Creek and the adjacent riparian buffer and floodplain areas.

Shelby County Government has evaluated the following alternatives and mitigation measures to be taken to minimize adverse impacts and to restore and preserve natural and beneficial values:

- Building a Levee
- Building a Berm
- Adjusting the existing geometry and elevations of the creek

Shelby County Government carefully evaluated all three options based on factors such as constructability, cost, and impacts. Both the Levee and Berm Options were not viable options due to several negative impacts, including:

1. Significantly higher construction costs
2. Increased maintenance of infrastructure and pumping requirements during flood events, etc., including costs to maintain structures
3. Disruption of hydrology on the landside causing potential localized flooding
4. The construction of a berm or levee had significant impacts on the adjacent neighborhood.
5. Berm or levee would physically and visually disconnect the adjacent areas from the Creek, which has the potential to be a neighborhood amenity

West Junction Neighborhood Redevelopment

The Neighborhood Redevelopment will be conducted in the portion of the West Junction Neighborhood south of W. Peebles Road, west of Ford Road, north of W. Mitchell Road and east of Weaver Road. The Neighborhood Redevelopment activities will include a property acquisition program to purchase existing at-risk properties located below elevation 231.00 within the floodplain in the West Junction neighborhood. The program proposes incentives to encourage residents to relocate within the neighborhood. The properties acquired under the program will have permanent restrictions included in the property deed to preserve the floodplain from future development.

The redevelopment effort also includes the development of strategies for community redevelopment projects such as allowing residents the opportunity to expand their existing properties by acquiring adjacent vacant lots as well as reclaiming vacant lots to introduce uses like local food production, community park space, stormwater retention, and expansion of natural areas. An additional goal is to seek to minimize municipal maintenance costs and reestablish vacant and delinquent properties to be tax revenue generating.

There are three primary purposes for this notice. First, people who may be affected by activities in the wetland and floodplain and those who have an interest in the protection of the natural environment should be given an opportunity to express their concerns and provide information about these areas. Second, an adequate public notice program can be an important public educational tool. The dissemination of information about wetlands and the floodplain can facilitate and enhance Federal efforts to reduce the risks associated with the occupancy and modification of these special areas. Third, as a matter of fairness, when the Federal government determines it will participate in actions taking place in wetlands and floodplains, it must inform those who may be put at greater or continued risk.

Additional information on the proposal may be obtained by contacting:
**Jim Vazquez Administrator at jim.vazquez@memphistn.gov or (901)
636-7170**

Written comments must be received by Shelby County at the following address on or before **April 22, 2019**

**Division of Planning and Development
Attention: Jim Vazquez, Administrator
Office of Resilience
125 N. Main Street, Room 468
Memphis, TN 38103
during the hours of 8:00 AM to 4:30 PM.**

Comments may also be submitted via email at: jim.vazquez@memphistn.gov

Date: March 29, 2019

Attest:

Lee Harris Mayor
Shelby County, Tennessee

**FINAL NOTICE AND PUBLIC EXPLANATION OF A PROPOSED
ACTIVITY IN A WETLAND AND FLOODPLAIN
WITHIN THE SOUTH CYPRESS CREEK WATERSHED
IN SHELBY COUNTY, TENNESSEE**

To: All interested Federal, State and Local Agencies and Groups or Individuals

This is to give notice that Shelby County Government under Part 58 has conducted an evaluation as required by Executive Order 11988, to determine the potential effect that its activity in wetlands and the floodplain will have on the human environment for the South Cypress Creek Watershed and West Junction Neighborhood Redevelopment Project under the HUD National Disaster Resiliency Grant, Contract Number B-13-US-470002.

Shelby County Government is proposing a series of open space and infrastructure project elements that will help make the greater Memphis area more resilient in future disaster and flooding events. The South Cypress Creek Watershed and West Junction Neighborhood Redevelopment activity encompasses improvements in the South Cypress Creek drainage basin just south of Interstate 55 and in the West Junction Neighborhood. The project will entail two components as described hereinafter: (1) South Cypress Creek Restoration and, (2) West Junction Neighborhood Redevelopment.

For this notice, all the proposed activities are located within or adjacent to the South Cypress Creek Floodplain. Additionally, there will be minor impacts on isolated wetlands. The South Cypress Creek Restoration improvements will affect approximately 29.3 acres of floodplain and 0.80 acres of wetlands. The West Junction Neighborhood Redevelopment improvements will affect approximately 11.4 acres of floodplain. The following describes the project locations and the proposed improvements:

The South Cypress Creek Restoration Project activities will restore and preserve the natural and beneficial functions of the floodplain and wetlands. The proposed West Junction Neighborhood Redevelopment activities will include the acquisition of properties located in the floodplain and permanently dedicate those properties for use of flood control and protect them from future development through the Voluntary Buyout Program. Additionally, vacant lots located outside the floodplain in the Neighborhood will be redeveloped for various beneficial community uses.

South Cypress Creek Restoration

The South Cypress Creek Restoration project will be adjacent to the existing Cypress Creek, from north of W. Mitchell Road to east of Weaver Road. The proposed project will expand stormwater capacity by removing obstructions, stabilizing the stream banks, and installing stormwater management facilities. These treatments will provide storage and detention of peak flows to reduce the flood stage and adjacent properties' risk of flooding. In addition to preserving existing wetlands, the proposed project will also expand existing or create new water receiving landscapes, i.e., constructed wetlands, rain gardens, bioswales and/or other natural stormwater Best Management Practices (BMP's), landforms, green open spaces, parks, and multi-purpose recreational trails that connect to the surrounding community. These elements will be designed to reduce the flood risk for the adjacent properties most susceptible to flooding within the project area, while also enhancing both the water quality and habitat of South Cypress Creek and the adjacent riparian buffer and floodplain areas.

Shelby County Government has considered the following alternatives and mitigation measures to be taken to minimize adverse impacts and to restore and preserve natural and beneficial values:

- Building a levee
- Building a berm
- Adjusting the existing geometry and elevations of the creek

Shelby County Government carefully evaluated all three options based on factors such as constructability, cost, and impacts. Both the Levee and Berm Options were not viable options due to several negative impacts, including:

1. Significantly higher construction costs
2. Increased maintenance of infrastructure and pumping requirements during flood events, etc., including costs to maintain structures
3. Disruption of hydrology on the landside causing potential localized flooding
4. The construction of a berm or levee had significant impacts on the adjacent neighborhood.
5. Berm or levee would physically and visually disconnect the adjacent areas from the Creek, which has the potential to be a neighborhood amenity

The construction documents for the South Cypress Creek Restoration and West Junction Neighborhood redevelopment projects will be reviewed and coordinated with the City of Memphis, the Local Floodplain Administrator, to certify that these proposed activities will have no significant net effect on the designated wetland and floodplain.

Shelby County has reevaluated the alternatives to building in the wetland and floodplain and has determined that it had no practicable alternative. Environmental files that document compliance with steps 3 through 6 of Executive Order 11988 are available for public inspection, review, and copying upon request at the time and location delineated in the last paragraph of this notice for receipt of comments. This activity will have no significant impact on the environment for the following reasons:

1. A detailed wetland and waters delineation survey and report has been completed to identify existing wetlands and water courses that would be impacted and affected by these improvements. The proposed site grading and features were adjusted to avoid impacts to existing wetlands and to minimize the impact to significant natural features.
2. Personnel with the U.S. Fish and Wildlife Service have reviewed the material provided regarding the Cypress Creek Resiliency Study in Memphis, Shelby County, Tennessee. Although there appears to be Indiana bat and northern long-eared bat roosting habitat on the site, the area is outside of any known occurrence buffers, and recent bat surveys in the general area have not indicated presence of either species. Based on this, we would not anticipate adverse impacts to the Indiana or northern long-eared bat as a result of the project.

West Junction Neighborhood Redevelopment

The Neighborhood Redevelopment will be conducted in the portion of the West Junction Neighborhood south of W. Peebles Road, west of Ford Road, north of W. Mitchell Road and east of Weaver Road. The Neighborhood Redevelopment activities will include a property acquisition program to purchase existing at-risk properties located below elevation 231.00 within the floodplain in the West Junction neighborhood. The program proposes incentives to encourage residents to relocate within the neighborhood. The properties acquired under the program will have permanent restrictions included in the property deed to preserve the floodplain from future development.

The redevelopment effort also includes the development of strategies for community redevelopment projects such as allowing residents the opportunity to expand their existing properties by acquiring adjacent vacant lots as well as reclaiming vacant lots to introduce uses like local food production, community park space, stormwater retention, and expansion of natural areas. An additional goal is to seek to minimize municipal maintenance costs and reestablish vacant and delinquent properties to be tax revenue generating.

There are three primary purposes for this notice. First, people who may be affected by activities in the wetland and floodplain and those who have an interest in the protection of the natural environment should be given an opportunity to express their concerns and provide information about these areas. Second, an adequate public notice program can be an important public educational tool. The dissemination of information about wetlands and the floodplain can facilitate and enhance Federal efforts to reduce the risks associated with the occupancy and modification of these special areas. Third, as a matter of fairness, when the Federal government determines it will participate in actions taking place in wetlands and floodplains, it must inform those who may be put at greater or continued risk.

Additional information on the proposal may be obtained by contacting:

**Jim Vazquez Administrator at jim.vazquez@memphistn.gov or (901)
636-7170**

Written comments must be received by Shelby County at the following address on or before **July 22, 2019:**

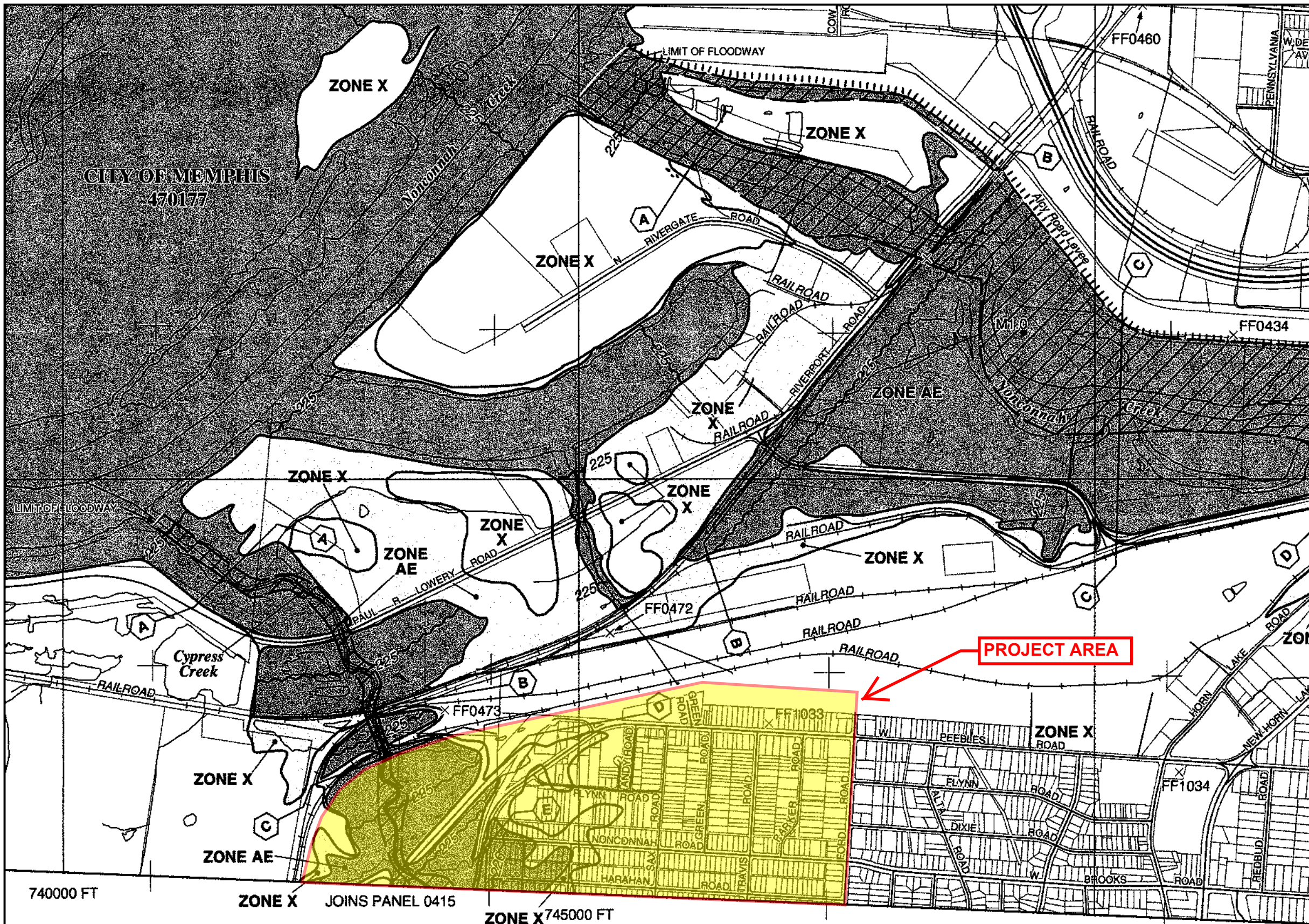
**Division of Planning and Development
Attention: Jim Vazquez, Administrator
Office of Resilience
125 N. Main Street, Room 468
Memphis, TN 38103
during the hours of 8:00 AM to 4:30 PM.**

Comments may also be submitted via email at: jim.vazquez@memphistn.gov

Date: June 27, 2019

Attest:

Lee Harris Mayor
Shelby County, Tennessee



GRAPHIC SCALE 1" = 1000'

1000 2000 FEET

300 600 METERS

PANEL 0405F

FIRM

FLOOD INSURANCE RATE MAP

SHELBY COUNTY,

TENNESSEE

AND INCORPORATED AREAS

PANEL 405 OF 635

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

| COMMUNITY | NUMBER | PANEL | SUFFIX |
|------------------|--------|-------|--------|
| MEMPHIS, CITY OF | 470177 | 0405 | F |

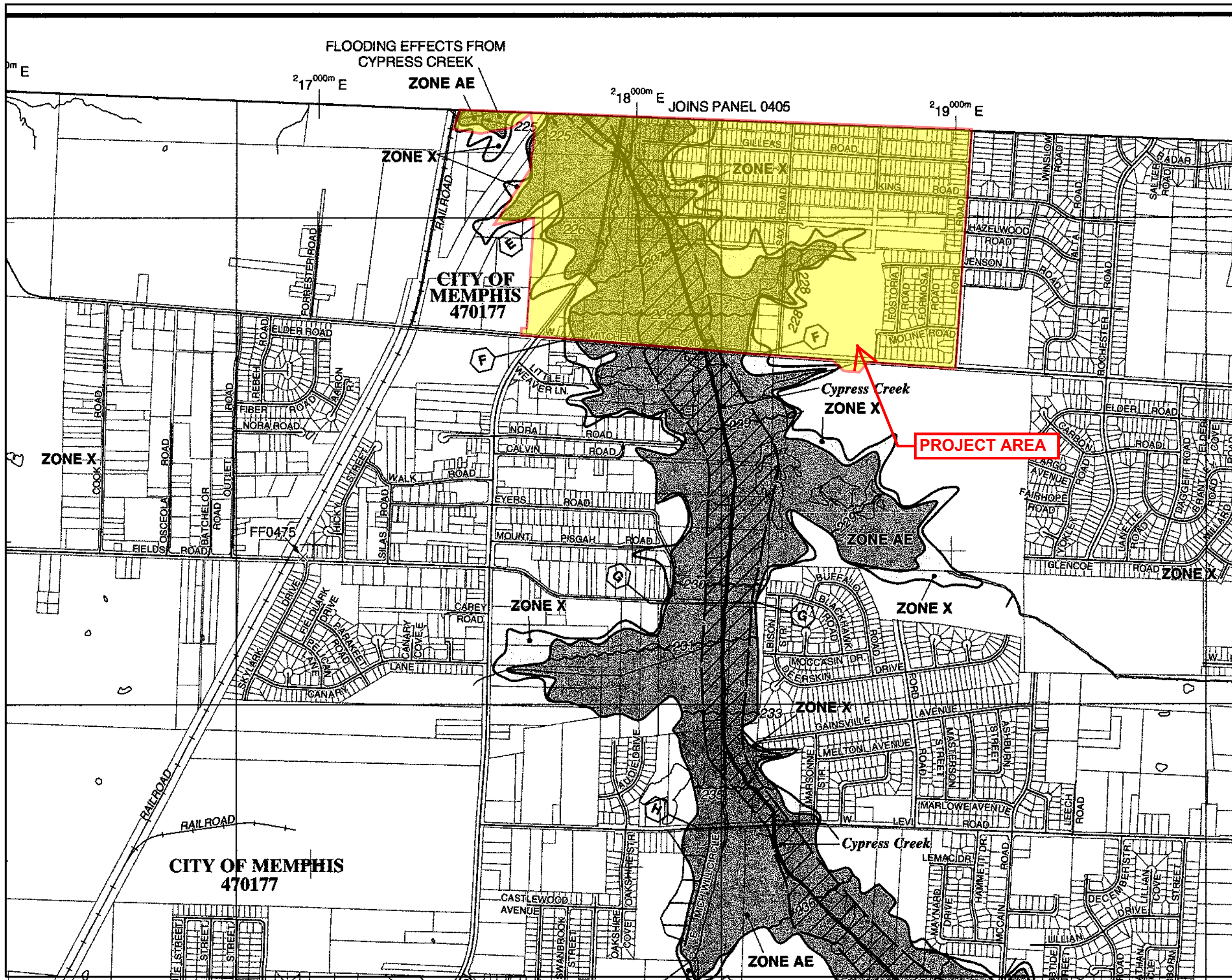
Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
47157C0405F

MAP REVISED
SEPTEMBER 28, 2007

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov



MAP SCALE 1" = 1000'

1000 2000 FEET

0 500 1000 METERS

FIRM

FLOOD INSURANCE RATE MAP

SHELBY COUNTY, TENNESSEE

AND INCORPORATED AREAS

PANEL 415 OF 635
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

| COMMUNITY | NUMBER | PANEL | SUFFIX |
|------------------|--------|-------|--------|
| MEMPHIS, CITY OF | 470177 | 0415 | F |

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
47157C0415F

MAP REVISED
SEPTEMBER 28, 2007

Federal Emergency Management Agency

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Appendix K – Historic Preservation

South Cypress Creek Watershed and West Junction Neighborhood Redevelopment



TENNESSEE HISTORICAL COMMISSION
STATE HISTORIC PRESERVATION OFFICE
2941 LEBANON PIKE
NASHVILLE, TENNESSEE 37243-0442
OFFICE: (615) 532-1550
www.tnhistoricalcommission.org

February 7, 2019

Mr. Jim Vasquez
Shelby County Office of Resilience
125 N. Main Street, Room 443
Memphis, TN 38103

RE: HUD / Department of Housing and Urban Development, South Cypress Creek Watershed and Neighborhood Redevelopment Project, Memphis, Shelby County, TN

Dear Mr. Vasquez:

In response to your request, we have reviewed the documents you submitted regarding your proposed undertaking. Our review of and comment on your proposed undertaking are among the requirements of Section 106 of the National Historic Preservation Act. This Act requires federal agencies or applicant for federal assistance to consult with the appropriate State Historic Preservation Office before they carry out their proposed undertakings. The Advisory Council on Historic Preservation has codified procedures for carrying out Section 106 review in 36 CFR 800 (Federal Register, December 12, 2000, 77698-77739).

After considering the documentation submitted, it is our opinion that there are no National Register of Historic Places listed or eligible properties affected by this undertaking. We have made this determination because either: no National Register listed or eligible Historic Properties exist within the undertaking's area of potential effects, the specific location, size, scope and/or nature of the undertaking and its area of potential effects precluded affects to Historic Properties, the undertaking will not alter any characteristics of an identified eligible or listed Historic Property that qualify the property for listing in the National Register, or it will not alter an eligible Historic Property's location, setting or use. We have no objections to your proceeding with your undertaking.

If your agency proposes any modifications in current project plans or discovers any archaeological remains during the ground disturbance or construction phase, please contact this office to determine what further action, if any, will be necessary to comply with Section 106 of the National Historic Preservation Act. If you are applying for federal funds, license or permit, you should submit this letter as evidence of consultation under Section 106 to the appropriate federal agency, which, in turn, should contact us as required by 36 CFR 800. If you represent a federal agency, you should submit a formal determination of eligibility and effect to us for comment. You may direct questions or comments to Jennifer M. Barnett (615) 687-4780. This office appreciates your cooperation.

Sincerely,

E. Patrick McIntyre, Jr.
Executive Director and
State Historic Preservation Officer

EPM/jmb



Shelby County Government Office of Resilience

125 N. Main Street, Room 443, MEMPHIS, TENNESSEE 38103
Tel: (901) 636-7170 Fax: (901) 636-6603

Lee Harris
Mayor

4 January 2019

Mr. Patrick McIntyre, Jr.,
Executive Director, SHPO
State Historic Preservation Office
2941 Lebanon Pike
Nashville, TN 37214

Subject: Section 106 Of The National Historical Preservation Act Review
South Cypress Creek Watershed and Neighborhood Redevelopment Project
Shelby County, Tennessee
HUD National Disaster Resiliency Grant Contract Number B-13-US-470002

Dear Mr. McIntyre:

The Government of Shelby County, TN has received funding from the United States Department of Housing and Urban Development to assist with resiliency planning and recovery needs resulting from the May 2011 flooding. The grant is designed to address flooding issues by improving the community's resilience to future flooding and alleviating current flooding conditions of adjacent communities. Under HUD regulation 24 CFR 58.4, the Shelby County Government has assumed HUD's environmental review responsibilities for the project, including consultation related to cultural resources. Shelby County Government requests a review of this project to comply with Section 106 of the National Historic Preservation Act and its implementing regulations 36 CFR Part 800.

Project Location/Area of Potential Effects (APE):

The proposed project location is in the South Cypress Creek drainage basin. The stream restoration activities will be concentrated on the portion of Cypress Creek south of W. Peebles Road and north of W. Mitchell Road. The neighborhood redevelopment efforts will take place in the West Junction Neighborhood of Memphis, east of Cypress Creek and west of Ford Road. The approximate center of the project area is located at Lat 35°03'38.26"N and Long 90°05'13.25"W.

Description of the Proposed Project [24 CFR 50.12 & 58.32; 40 CFR 1508.25]:

South Cypress Creek

The South Cypress Creek Restoration project will be adjacent to the existing Cypress Creek, north of W. Raines Road and just south of Riverport Road and the BNSF Railroad Crossing. The proposed project will expand stormwater capacity by removing obstructions, stabilizing the stream banks, and installing stormwater management facilities. These treatments will provide storage and detention of peak flows to reduce the flood stage and adjacent properties' risk of flooding. In addition to preserving existing wetlands, the proposed project will also expand existing or create new water receiving landscapes (i.e. constructed wetlands, rain gardens, bioswales and/or other natural stormwater BMP's), landforms, green open spaces, parks, and multi-purpose recreational trails that connect to the surrounding community. These elements will be designed to reduce the flood risk for the adjacent properties most susceptible to flooding within the project area, while also enhancing both the water quality and habitat of South Cypress Creek and the adjacent riparian buffer and floodplain areas.

Shelby County Government is evaluating the following alternatives and mitigation measures to be taken to minimize adverse impacts and to restore and preserve natural and beneficial values:

- Building a levee
- Building a berm
- Adjusting the existing geometry and elevations of the creek

West Junction Neighborhood Redevelopment

The Neighborhood Redevelopment will be conducted in the portion of the West Junction Neighborhood south of W. Peebles Road, west of Ford Road, north of W. Mitchell Road and east of Weaver Road. The Neighborhood Redevelopment activities will consist of a voluntary property buy-out program to acquire existing homes located within the floodplain in the West Junction neighborhood with incentives to encourage residents to relocate within the neighborhood. The redevelopment effort also includes the development of strategies for community redevelopment projects such as allowing residents the opportunity to expand their existing properties by acquiring adjacent vacant lots as well as reclaiming vacant lots to introduce uses like local food production, community park space, stormwater retention, and expansion of natural areas. An additional goal is to seek to minimize municipal maintenance costs and reestablish vacant and delinquent properties to be tax revenue generating.

Purpose and Need

These activities focus on helping the community address unmet recovery needs from 2011 and weather future storms better than in prior flooding events. Without the proposed project activity in the South Cypress Creek area, a 100-year flood event would be estimated to cause \$2.2 million dollars of property damage and, if trends continue along the same trajectory since the 2011 flooding, that damage will result in additional vacant properties.

There is a great need in the South Cypress Creek and across the county for viable solutions to return vacant lots into community and commercial use. The vacant lot program in the South Cypress Creek area will reuse vacant lots for community benefit that can be scaled to other areas of the county and region. Currently, the Land Bank holds title to over 6,500 vacant properties, the majority of which are in the City of Memphis where approximately 47 percent of land is vacant, according to a 2012 study by HUD.

Coordination Efforts

Section 106 of the National Historic Preservation Act of 1966, Native American Coordination

The 2001 Advisory Council on Historic Preservation regulations, 36 CFR 800, stipulates that Indian Tribes that attach religious and cultural significance to properties that may be affected by an undertaking be invited to participate in the project review process as consulting parties. Coordination letters have been sent out to the Tribes that have interest in the proposed project area. Responses received to date are included in the attachments.

Cultural Resources (Archaeological, Historical Preservation, Architectural Impacts)

Pursuant to compliance with Section 106 of the National Historic Preservation Act and implementing regulations 36 CFR 800, a survey is required by Local Government Contract Cultural Resource employees to identify National Register listed, eligible, or potentially eligible resources within the impact zone of the proposed project (eligibility criteria are set forth in 36 CFR 60.4.). The survey includes areas that might possibly be affected by changes in air quality, noise levels, setting, and land use. As a result of the survey, it is the opinion of the Local Government that the project, as presently proposed, will have no effect on any archaeological, architectural or historical resources included in or eligible for inclusion in the National Register of Historic Places and that there will be no Section 4(f) use of a historic property.

Attached to this letter are the following support documentation for your use and review:

- Project Location Maps
- USGS Quad Map
- Project Area Photos
- Preliminary Plans and Sketches
- Cultural Resource Survey
- Native American Coordination (NAC) Correspondence

Should you have any questions or need any additional information during your review, please do not hesitate to contact me.

Sincerely,

Jim Vazquez
Administrator
Shelby County Office of Resilience
(901)636-7170
Jim.vazquez@memphistn.gov

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South Cypress Creek Watershed Restoration and Neighborhood Redevelopment Project
Memphis, Shelby County Tennessee
Grant Contract Number B-13-US-470002
Date: January 4, 2019*

Project Location Map



Notes

1. Coordinate System: NAD 1983 StatePlane Tennessee FIPS 4100 Feet
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2013.
3. Orthoimagery © First Base Solutions, 20xx.

Project Limits

CCRS

Stream

----- Wet-Weather Conveyance

 Existing Wetland

Project Location

Shelby County, TN

Client/Project

Sasaki Associates
Cypress Creek
Shelby County HUD

Figure No.

1
Title
PROJECT LIMITS

172657016

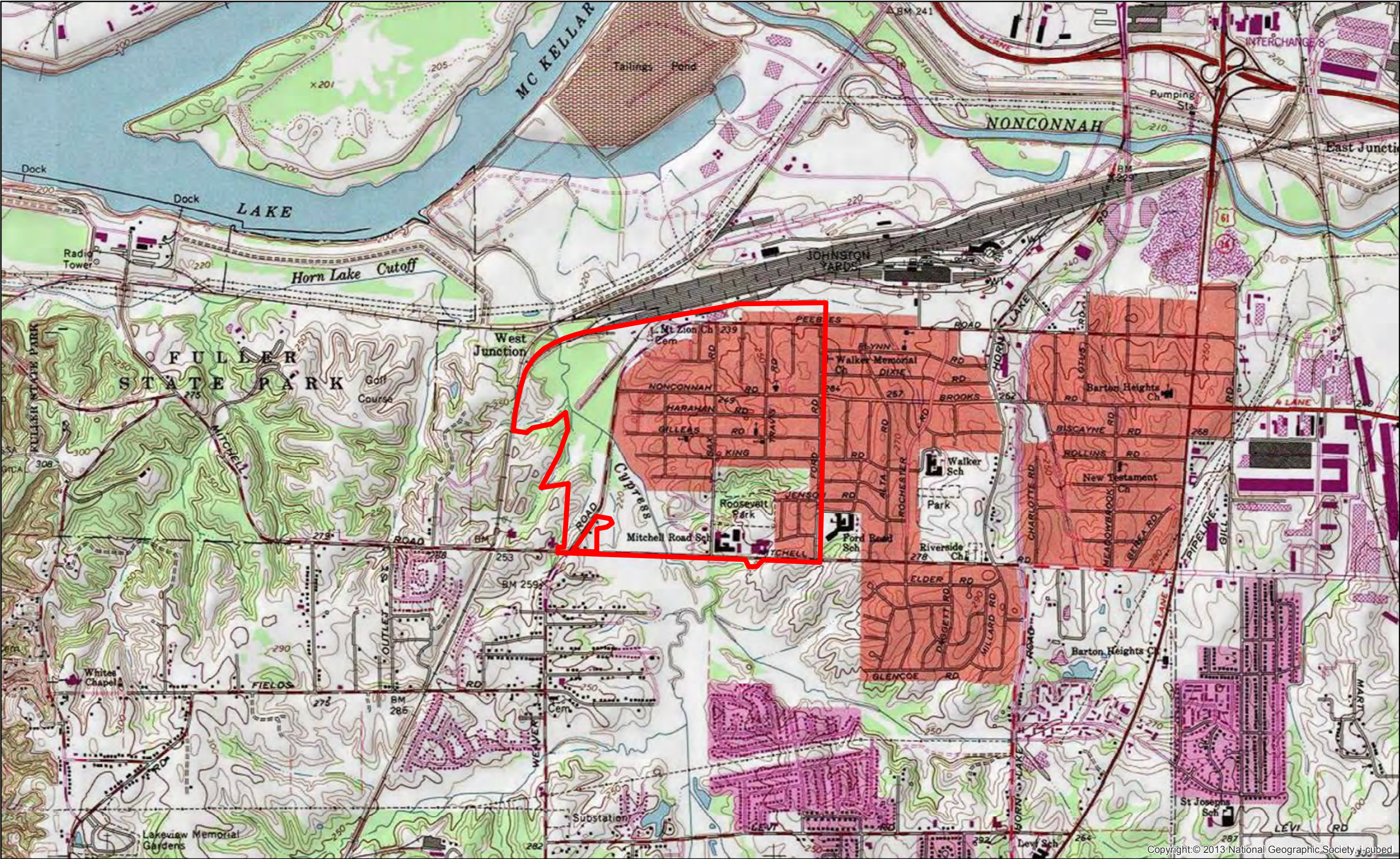
Prepared by MAS on 2018-08-07
Reviewed by JRB on 2018-08-07

CONCEPTUAL

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USGS Quad Map

South Cypress Creek Restoration and Neighborhood Redevelopment Project



Southwest Memphis Quad Map
1:24000

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Project Area Photos

South Cypress Creek Project Pictures

At the intersection of Weaver Road and Nonconnah Road:

Looking West:



Looking East:



South:



North:



Weaver Bridge:

West-



East:



Mitchel Road:

Looking North at the park-



West Junction Neighborhood: Buyout Program

These properties have been identified as potential properties to include in the program due to their finished floor elevation being below the base flood elevation.

804/806 Nonconnah Rd. (duplex)



803/805 Nonconnah Rd. (duplex)



775 Nonconnah Rd



783 King Road



827 Harahan Rd



798 Harahan Road



774 Harahan Rd



770 Harahan Rd





771 Harahan





783 Harahan Rd





792 Gilleas



788 Gilleas



815 Harahan



773 Hazelwood



789 Hazelwood



793 Hazelwood



792 Hazelwood





797 Hazelwood





832 Gilleas



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Preliminary Plans / Sketches

SOUTH CYPRESS CREEK DESIGN CONCEPT

JUNE 12, 2018

EXISTING

- CREEK ALIGNMENT
- 100YR FLOODPLAIN
- FLOODWAY
- WETLAND
- ROAD
- WALK
- OCCUPIED STRUCTURE
- VACANT STRUCTURE

PROPOSED

- CREEK RESTORATION
- BANKFULL BENCH
- WETLAND CREATION
- WETLAND RESTORATION
- BMP
- RAINGARDEN
- REHABILITATION/ STABILIZATION
- LIMITS OF GRADING
- PARK AREA
- MAJOR/ MINOR CONTOURS
- SPOIL AREA
- FIELD
- WALK
- ROAD
- HOUSING INFILL LOT
- SIDE LOT
- FOOD LOT
- PROPERTIES AT RISK

Properties at risk include homes located in the floodplain with finish floor elevations below EL231 and those identified as vulnerable due to their proximity to South Cypress Creek. Properties will be considered for voluntary buyout and incorporation into the floodplain open space.



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Cultural Resource Survey

CULTURAL RESOURCES LITERATURE AND RECORDS SEARCH FOR THE SHELBY COUNTY RESILIENCY PROJECT

Prepared for:
**Powers Hill Design
80 Monroe Ave, Suite 420
Memphis, Tennessee 38103**

**Panamerican Consultants, Inc.
91 Tillman Street
Memphis, Tennessee 38111
Panamerican Project No. 37192**

A handwritten signature in black ink, appearing to read 'Karla Oesch', is positioned above a horizontal line.

Karla Oesch, RPA

OCTOBER 11, 2017

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INTRODUCTION

At the request of the Powers Hill Design, Panamerican Consultants Inc. (Panamerican) conducted a cultural resources literature and records search (a.k.a. a “desktop” study) for an 868 ac. tract located south of W. Peebles Road in Shelby County, Tennessee. The goal of a desktop study is to identify all known cultural resources within the study area and to develop a sense of the known cultural resources within the study area and to develop a sense of the unknown/unrecorded cultural resources that can be expected to exist in the study area.

A desktop study includes conducting a standard Phase I cultural resources background research; no fieldwork is required. The information provided is intended to assist project managers in planning the proposed undertaking. In the event that a standard Phase I cultural resources field survey becomes necessary, the information from the desktop study may be recycled (assuming there is not a lengthy time of duration between the two studies).

STUDY LOCATION

The study tract is located in southwest Memphis. The tract is irregular shaped and boundary by W. Peebles Road on the north. Weaver Road forms part of the western boundary, and Ford Street forms part of the eastern boundary. Mitchell Road roughly bisects the tract from east to west (Figures 1 and 2). The tract is a mixture of residential and undeveloped, wooded terrain along South Cypress Creek. It can be identified on the Southwest Memphis, TN-AR 7.5-min. quad.

ENVIRONMENTAL SETTING

PHYSIOGRAPHY

The project area is located on the western Tennessee loess sheet. Stearns (1975) refers to the loess sheet as the West Tennessee Plain, and views it as a sub region of the Gulf Coastal Plain physiographic province (Fenneman 1938). A more recent ecoregion map refers to this area as the Loess Plains (74b), a Level IV ecoregion with the Mississippi Valley Loess Plains (a Level III ecoregion; Griffith et al. 2004). The Loess Plains cover 4,023 mi.² in Tennessee, and the topography consists of level to gently rolling terrain that is the result of sequential deposition and erosion of Pleistocene (Late Wisconsin) loess. Wide, flat bottomlands and floodplains are present within the Loess Plains and they harbor low gradient silt and sand bottomed streams; most of which have been channelized.

SOILS

There are two major soil regions in Shelby County. The majority of the county, including the study tract, is associated with “Soils of the Loess Region” which include alfisols, entisols, and ultisols (Springer and Elder 1980:19). The soils in Loess Region are silty and fertile, and support some of the largest acreage of cropland in Tennessee (Springer and Elder 1980:19). However, these soils are prone to erosion if not managed carefully, and can result in gullied land and stream head cutting.

Examination of the “General Soil Map of Shelby County, Tennessee” (Sease et al. 1989) reveals the APE is found primarily on the Memphis association. These soils are described as “chiefly steep, well-drained, silty soils on uplands” and are associated with the nearby T.O. Fuller State Park (Sease et al. 1989:7). Memphis soils are characteristic of areas rising from the Mississippi River bottoms. This type covers roughly ten percent of the county.

More specifically, review of detailed soil maps (Sease et al. 1989:Sheet 74) reveals the APE is located on five soil types and series, as well as some filled, graded, and gullied land. The filled and grade land is associated with the developed areas of the tract.

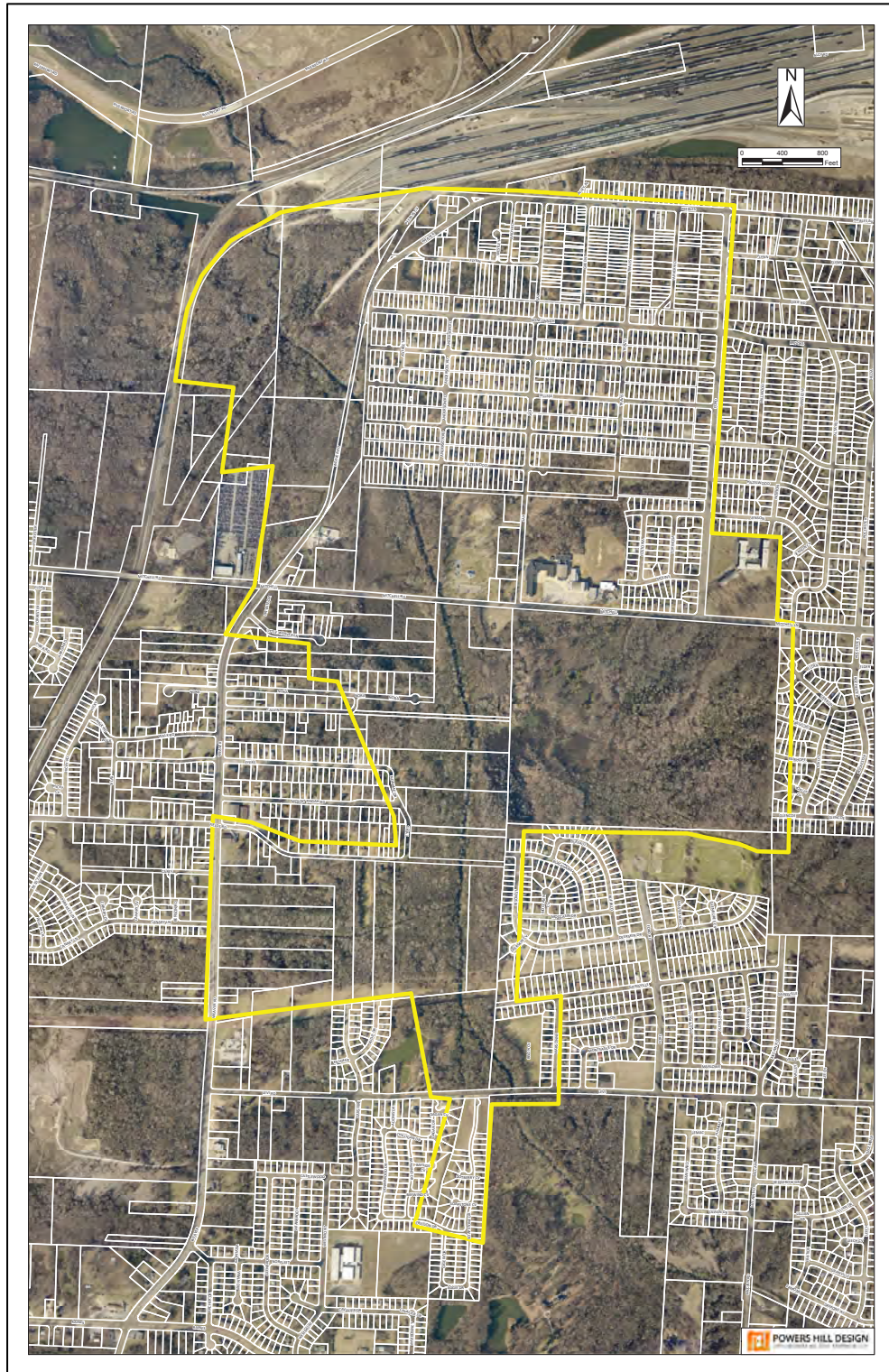


Figure 1. Air photo of the tract (map courtesy: Powers Hill Design).

DRAINAGE

The local drainage located within the APE is Cypress Creek. Cypress Creek runs for approximately 7 km from its headwaters to its mouth at McKellar Lake (a cut off of the Mississippi River).

TDOA RECORDS

ARCHAEOLOGICAL SITES

A review was conducted of the Tennessee Division of Archaeology (TDOA) records in Nashville for this undertaking on October 5, 2017. Importantly, this revealed that there are no previously recorded archaeological sites within the tract. Within a 1-mile radius of the tract there are three previously recorded archaeological sites (Table 1; Figure 2).

Table 1. Previously recorded archaeological sites with 1 mi. of the study tract.

| Site | Description | Date recorded |
|-------------|---|----------------------|
| 40SY3 | Woodland village on a bluff overlooking an old Mississippi River channel | 1957 |
| 40SY6 | Woodland camp site that has likely been disturbed by nearby industrial activity | 1966 |
| 40SY51 | Unknown aboriginal site just south of Nonconnah Creek | 1973 |

The three sites are prehistoric and were recorded from 1957 to 1973 by University of Memphis and Pink Palace Museum archaeologists. By the time the sites were recorded, much of this section of Shelby County, including parts of the APE, had already been developed for residential use (see *Cartographic Review* below).

Additionally Chucalissa lies just over a mile to the west of the APE. Chucalissa (40SY1) is a Mississippian mound complex located atop the loess bluffs overlooking Ensley Bottom, and has a lengthy history of archaeological investigations that need not be reviewed in detail here (Beaudoin 1953; Bundy 2000; Childress 1992; Childress and Wharey 1996; Ezell et al. 1997; Franklin and McCurdy 2005; Gray 2004; Hartman 2010; Lumb and McNutt 1988; McNutt 1996; Nash 1954, 1972; Nash and Gates 1962; Smith 1969; Smith and McNutt 1992).

PREVIOUS INVESTIGATIONS

There has been no previous cultural resources survey within the study tract. Within a 2 km search radius there has been one previous survey.

Diamond Pipeline Survey

In 2015, SWCA Environmental Consultants conducted survey an approximately 442 mi. pipeline corridor beginning in Oklahoma and ending in Memphis (Butler et al. 2015). The terminus of the Diamond Pipeline lies less than a mile north of the APE, too far to be included in Figure 2. No sites from this survey were recorded within 1-mi. of the Shelby County Resiliency Project tract during this survey.

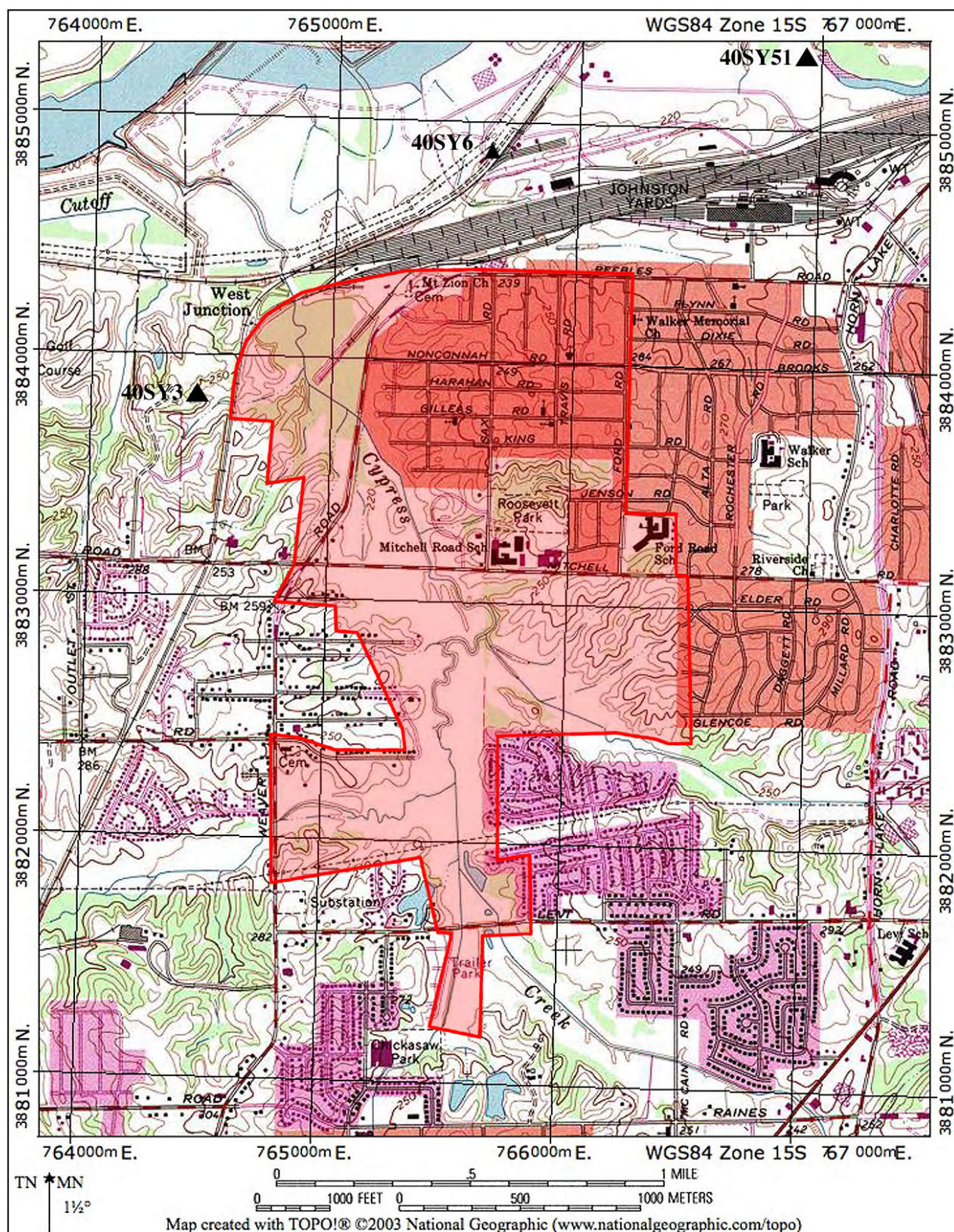


Figure 2. Quad map locator with the tract highlighted and previously recorded site added (Southwest Memphis TN 7.5-min. quad, 1997 edition).

TENNESSEE HISTORICAL COMMISSION

The Tennessee Historical Commission (THC) GIS viewer was reviewed (Figure 3). There are no previously recorded historic structures or properties within the tract. There are also no previously recorded structures within 1-mi. of the tract.

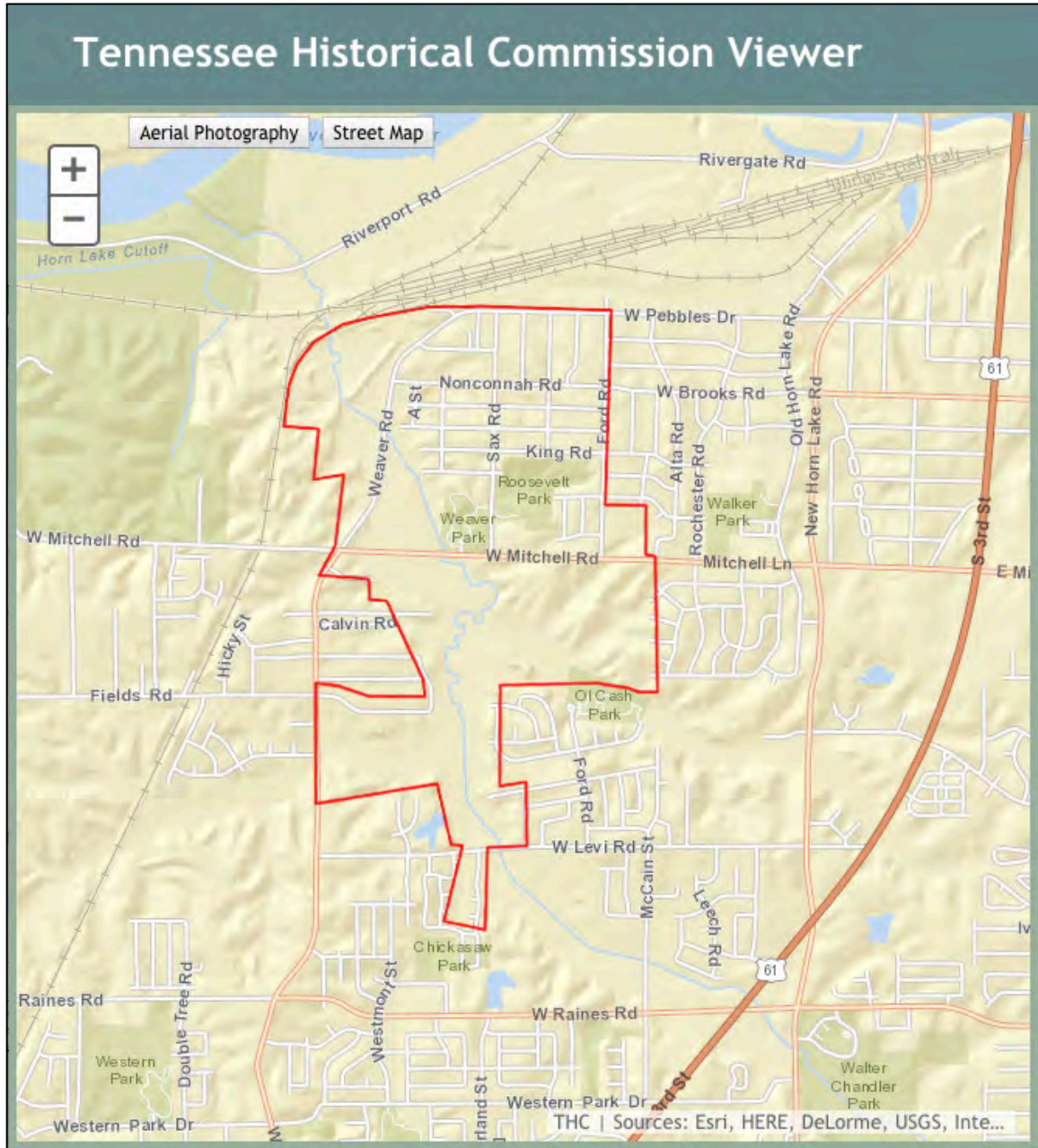


Figure 3. Screenshot of the THC GIS viewer with the study tract.

NATIONAL REGISTER OF HISTORIC PLACES LISTINGS

There are currently 186 NRHP listed properties within Shelby County, Tennessee (National Register of Historic Places 2017). Importantly, there is no NRHP listed property within the study tract.

The nearest NRHP listed property to the study area is the Chucalissa Indian Village, mentioned above, that is just over a mile to the west. Chucalissa is also a National Landmark.

CARTOGRAPHIC REVIEW

1888 W.T. WILLIAMSON MAP OF SHELBY COUNTY

The 1888 W.T. Williamson map of Shelby County is an important archival resource because it shows landowners, and property boundaries and acreages (Figure 4). Examination of this map reveals that the tract was under the ownership of a number of individuals, including R.H. Weaver who owned several plots along Cypress Creek.

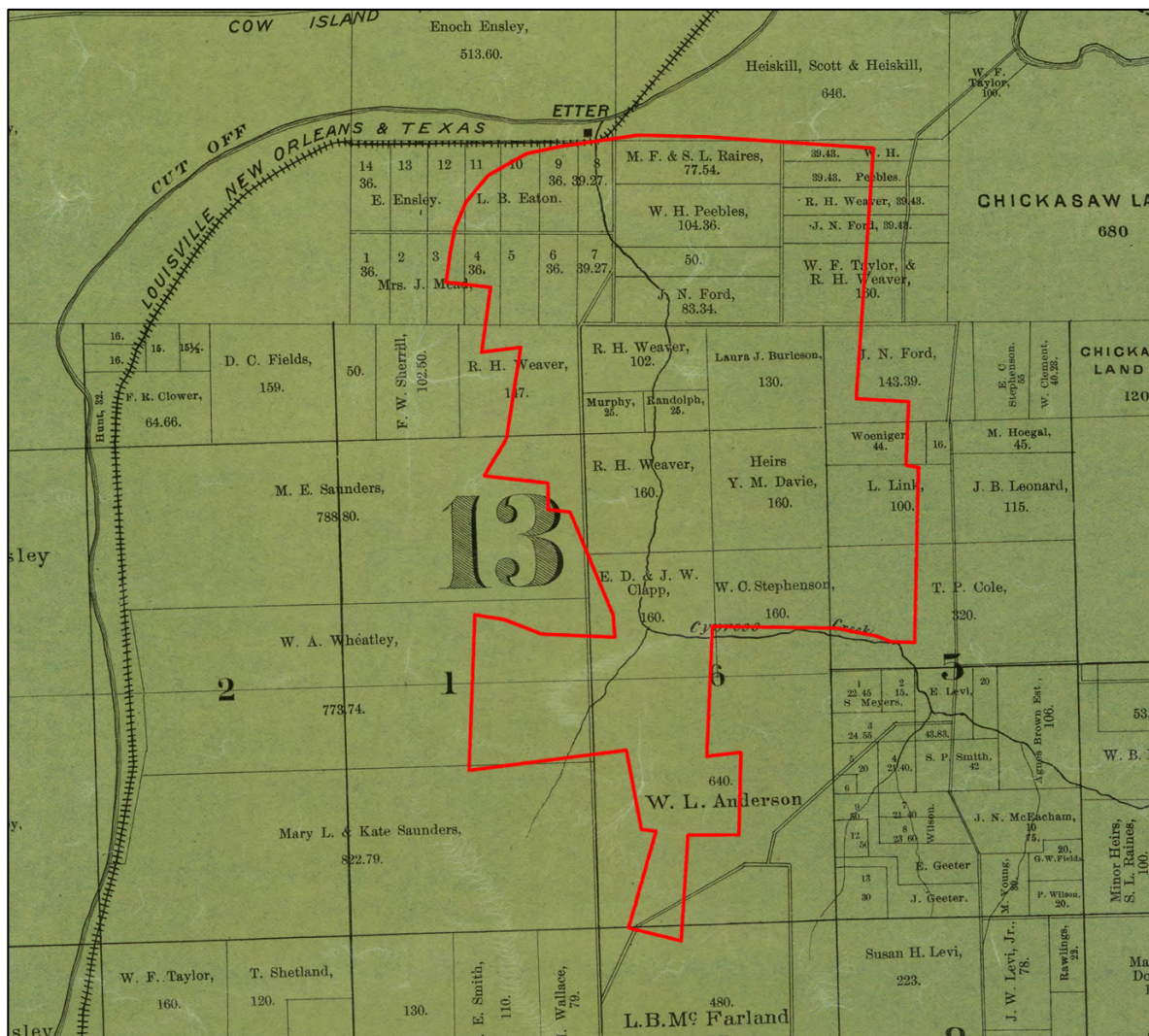


Figure 4. A portion of the 1888 W.T. Williamson Map of Shelby County with approximate location of study tract overlaid (map courtesy: Library of Congress).

1922 REVISED SHELBY COUNTY ROAD MAP

The 1922 “Revised road map of Shelby County, Tennessee” by Tri-State Blue Print and Supply reveals no developments with the study area (Figure 5). The layout of most of the roads then is still present in the West Junction area including Weaver Road. Cypress Creek was not indicated on this map.

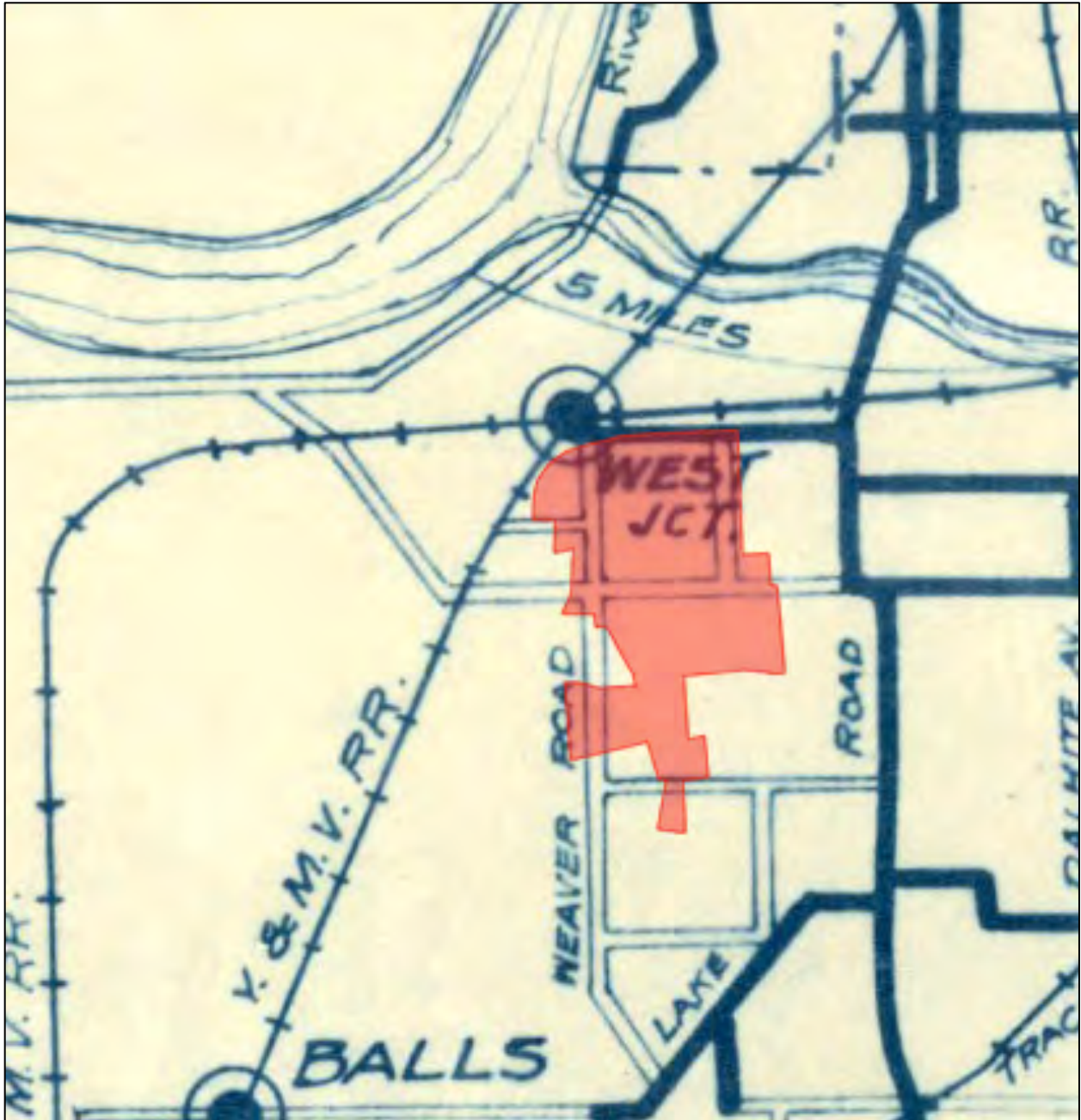


Figure 5. A portion of the 1922 “Revised road map of Shelby County, Tennessee” by Tri-State Blue Print and Supply with the study area indicated (map courtesy: Memphis Room, Benjamin L. Hooks Central Library).

1940 PLANNING COMMISSION MAP OF SHELBY COUNTY

Shelby County Planning Commission's 1940 map shows a somewhat similar situation along and near the APE as the 1922 county road map. There is slightly more detail in the addition of road names. Additionally Cypress Creek is included on this map (Figure 6). The scale appears to differ slightly and therefore the location of the study tract is approximated.

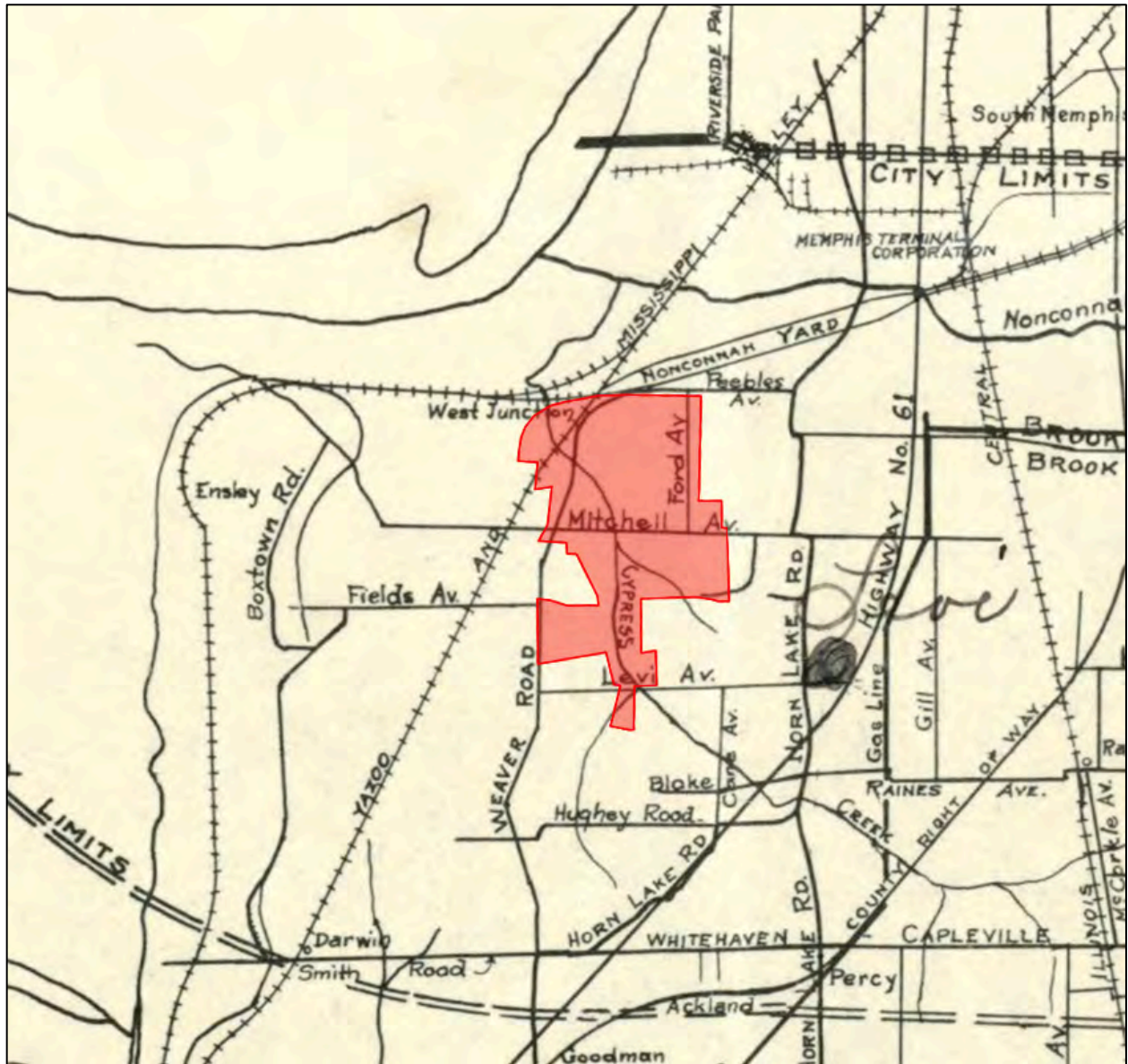


Figure 6. A portion of the 1940 Planning Commission Map of Shelby County with the approximate APE indicated (map courtesy: Memphis Room, Benjamin L. Hooks Central Library).

1939 HIGHWAY AND TRANSPORTATION MAP

The 1939 Tennessee State Highway Department “General Highway and Transportation Map, Shelby County, Tennessee” is fairly detailed, and importantly shows structure locations (Figure 7). This map clearly reveals that the local historic settlement pattern is focused along the roads. Also this map shows that much have the neighborhood layout and roads there today were present in 1939.

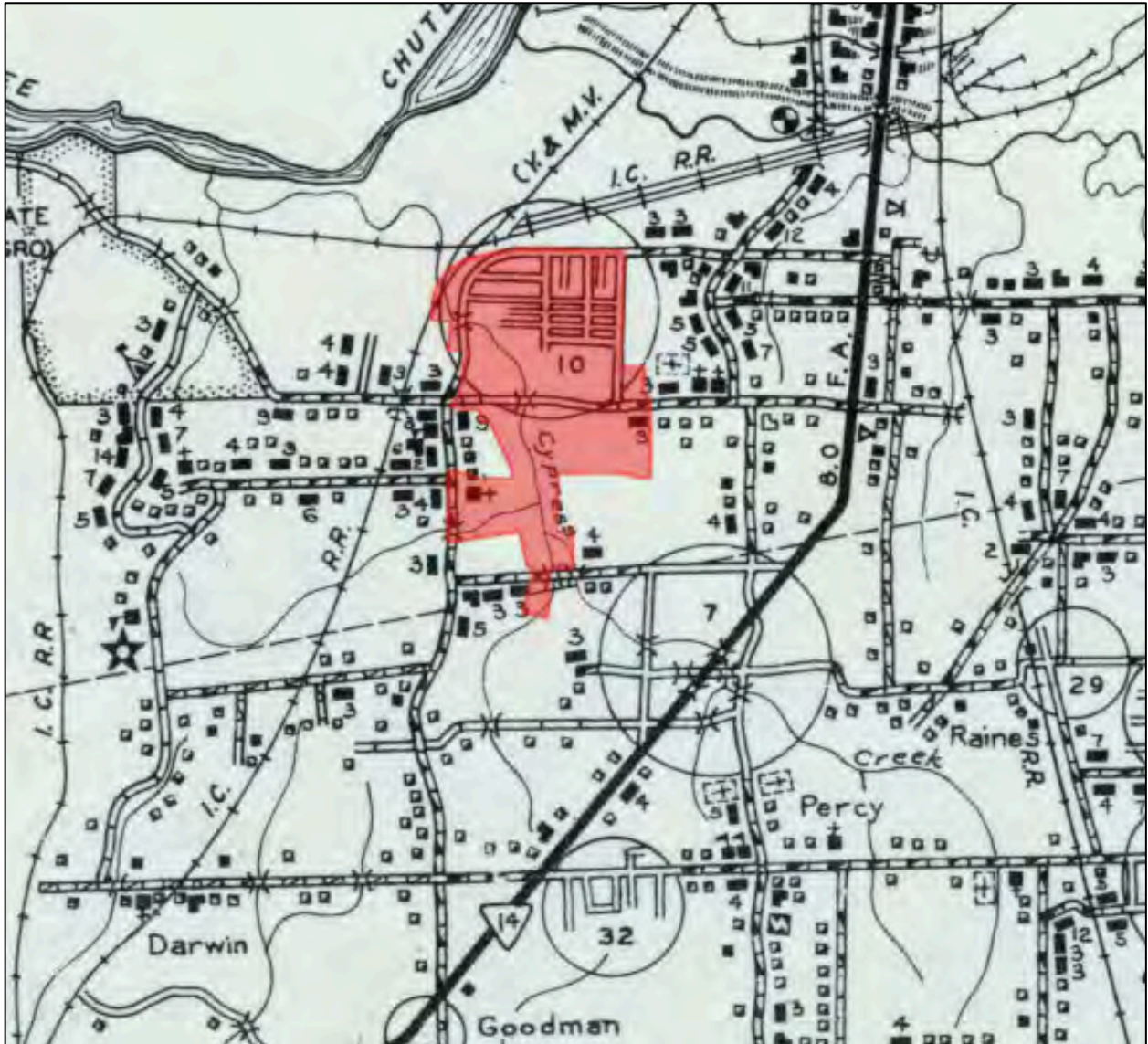


Figure 7. A portion of the 1939 Tennessee State Highway Department “General Highway and Transportation Map, Shelby County, Tennessee” with the Belmont tract indicated within the inset (map courtesy: Memphis Room, Benjamin L. Hooks Central Library).

1960 QUAD

The 1960 Memphis, TN 15-min. quad reveals a similar community layout within the study tract that was present in 1939 (Figure 8).

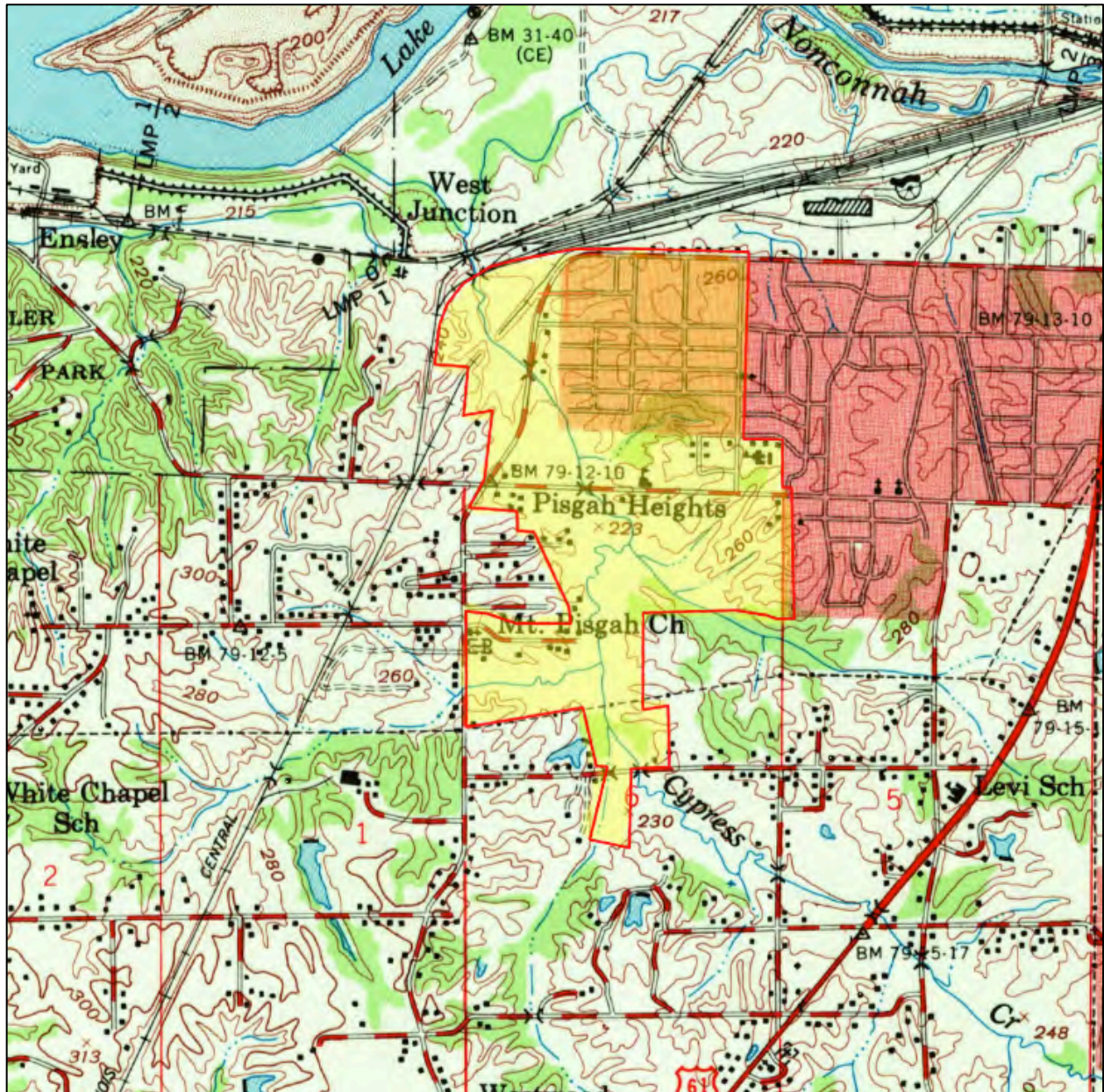


Figure 8. A portion of the USGS 1960 Memphis, TN 15-min quad with the study tract highlighted.

1965 QUAD

The 1965 edition of the Southwest Memphis, TN 7.5-min. quad reveals a similar situation as the 1960 15-min quad: the community layout remains the same (Figure 9).

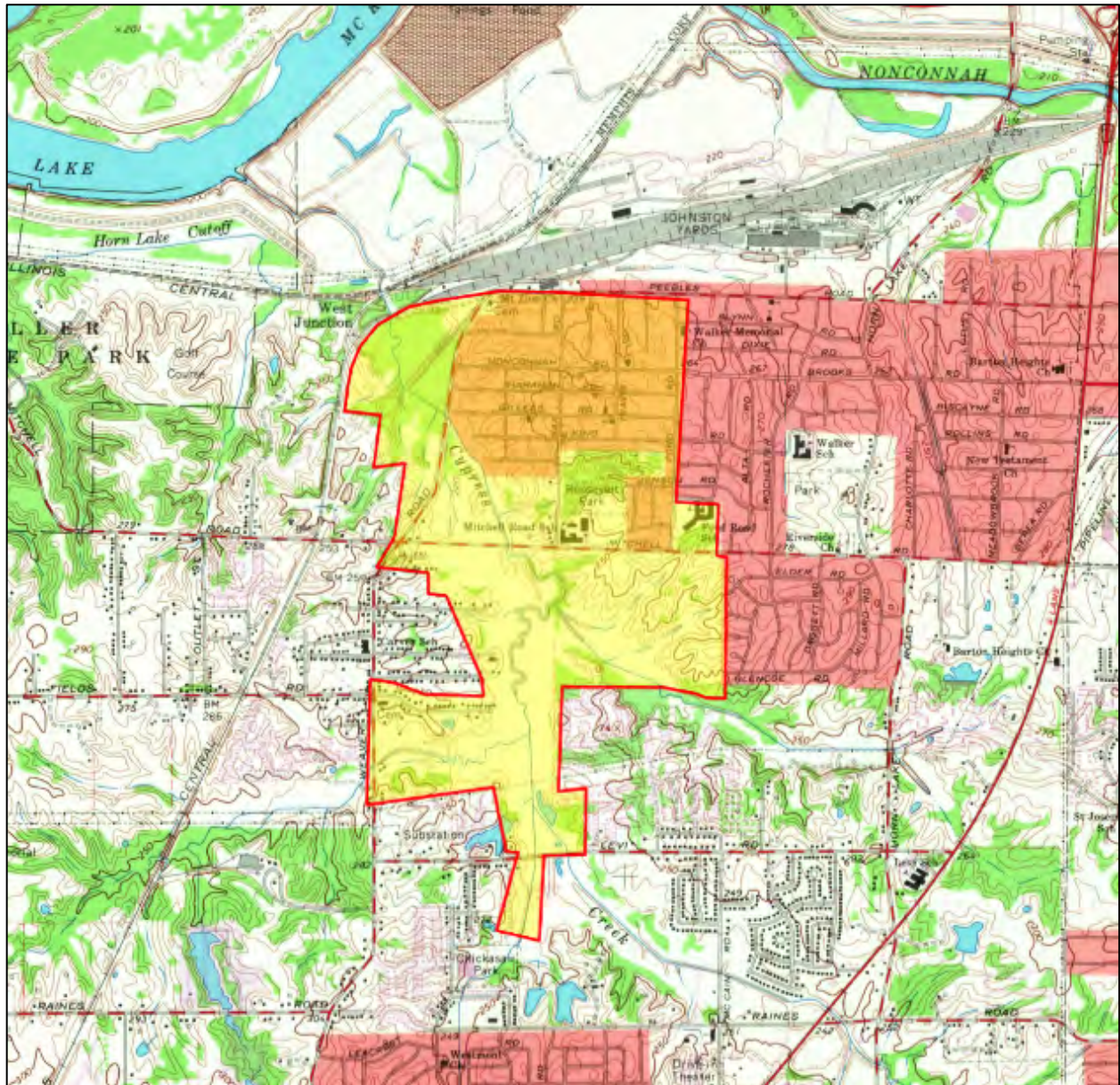


Figure 9. A portion of the 1965 Southwest Memphis, TN 7.5-min quad with the study tract highlighted.

1969 AIR PHOTO

Sease et al. (1989:Sheet 74) provide a black & white air photo taken in 1969 that includes the tract, in the *Soil Survey of Shelby County, Tennessee*. It reveals a similar distribution of developed and undeveloped land throughout the APE.

1998-2016 GOOGLE EARTH IMAGERY

Images dating from 1997 to 2016 are available on Google Earth. These images show very little change. The most difference is the development of the southern portion of the tract into a residential area. Much of the undeveloped portions to the southeast and northwest remain unchanged over that period.

CONCLUSION

There are no known cultural resources within the study tract. The most likely potential locations for Prehistoric archaeological sites are the undeveloped higher elevations bordering Cypress Creek within the northwestern and southeastern sections of the tract. The nearest archaeological site, 40SY3, is found in a similar setting.

A review of nineteenth- and twentieth-century maps produced evidence for the historic development of the tract. Much of the northwestern section of the tract has been developed for residential use since at least 1939, and likely earlier than that. This means that many of the residences within the tract could be 78 years old (or older), and thus would need an architectural assessment if they were to be adversely impacted by the undertaking.

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*Section 106 Of The National Historical Preservation Act Review
South Cypress Creek Watershed Restoration and Neighborhood Redevelopment Project
Memphis, Shelby County Tennessee
Grant Contract Number B-13-US-470002
Date: January 4, 2019*

NAC Correspondence

NATIVE AMERICAN COORDINATION SUMMARY

| <i>Sent to</i> | <i>Received from</i> | <i>Tribal Name</i> |
|-------------------------------------|-------------------------------------|-------------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Alabama Quassarte Tribal Town |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Chickasaw Nation |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Choctaw Nation of Oklahoma |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Coushatta Tribe of Louisiana |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Muscogee (Creek) Nation |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Quapaw Nation of Oklahoma |

Alabama Quassarte Tribal Town
Coordination Information

South Cypress Creek Watershed and West Junction
Neighborhood Redevelopment

From: [Vazquez, Jim](#)
To: ["chief@alabama-quassarte.org"](#); ["aqhpo@mail.com"](#)
Cc: ["Nisha Powers"](#); [Travis Mazerall](#); ["Modzelewski, John"](#)
Subject: Invitation To Be A Consulting Party
Date: Friday, October 26, 2018 8:35:00 AM
Attachments: [Alabama-Quassarte Consultation Invitation SCC 10-26-2018.pdf](#)

Chief Yargee,

Please see the attached letter and maps related to the South Cypress Creek Watershed and Neighborhood Redevelopment Project in Memphis/Shelby County, Tennessee.

Shelby County will conduct a review of the South Cypress Creek Watershed and Neighborhood Redevelopment Project to comply with Section 106 of the National Historic Preservation Act and its implementing regulations 36 CFR Part 800. We would like to invite you to be a consulting party in this review to help identify historic properties in the project area that may have religious and cultural significance to your tribe.; and if such properties exist, to help assess how the project might affect them. If the project might have an adverse effect, we would like to discuss possible ways to avoid, minimize, or mitigate potential adverse effects.

Once you have reviewed the attached letter and maps, I would appreciate a reply to let us know whether or not you would like to be a consulting party on this project. If you would like to be a consulting party, please provide me with the name and contact information for the tribe's principal representative in the consultation process. An original of this letter has also been mailed to your attention.

Thank you for your time.

Jim

Cc: Samantha Robison, Tribal Historic Preservation Officer

Jim Vazquez, Administrator
Office of Resilience
125 N. Main, Room 443
Memphis, TN 38103
Office: 901-636-7170
Fax: 901-636-6603
jim.vazquez@memphistn.gov



Shelby County Government Office of Resilience

125 N. Main Street, Room 443, MEMPHIS, TENNESSEE 38103
Tel: (901) 636-7170 Fax: (901) 636-6603

Lee Harris
Mayor

October 26, 2018

Chief Tarpee Yargee
Alabama-Quassarte Tribal Town
PO Box 187
Wetumka, OK 74883

**Re: South Cypress Creek Watershed and Neighborhood Redevelopment Project
Memphis, Shelby County TN**

HUD National Disaster Resiliency Grant, Contract Number B-13-US-47-0002.

Dear Chief Yargee,

The Government of Shelby County, TN has received funding from the United States Department of Housing and Urban Development to assist with resiliency planning and recovery needs resulting from the May 2011 flooding. The grant is designed to address flooding issues by improving the community's resilience to future flooding and alleviating current flooding conditions of adjacent communities. Under HUD regulation 24 CFR 58.4, the Shelby County Government has assumed HUD's environmental review responsibilities for the project, including tribal consultation related to historic properties. Historic properties include archeological sites, burial grounds, sacred landscapes or features, ceremonial areas, traditional cultural places and landscapes, plant and animal communities, and buildings and structures with significant tribal association.

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In addition to tribal consultation, Section 106 review has also been initiated with the Tennessee State Historic Preservation Officer.

If you would like to be a consulting party on this project, we respectfully ask that you notify us of your interest within 30 days. If you have any initial concerns with the project impacts on religious or cultural properties, please let us know in your response.

Attached is a Design Concept map (Attachment A) and a Quad Map with Project Limits (Attachment B) that shows the project area as well as preliminary plans and sketches. The project consists of watershed restoration within the South Cypress Creek Basin and redevelopment in the West Junction Neighborhood.

The South Cypress Creek watershed south of W. Peebles Road will be partially relocated and restored to accommodate flood storage by removing obstructions, stabilizing the stream banks, and installing stormwater management facilities. In addition to preserving existing wetlands, the proposed project will also expand existing or create new water receiving landscapes (i.e. constructed wetlands, rain gardens, bioswales and/or other natural stormwater BMPS), landforms, green open spaces, parks, and multi-purpose recreational trails that connect to the surrounding community. These elements will be designed to reduce the flood risk for the adjacent properties most susceptible to flooding within the project area, while also enhancing both the water quality and habitat of South Cypress Creek and the adjacent riparian buffer and floodplain areas.

The Neighborhood Redevelopment activities will consist of a property program to buyout existing homes located within the floodplain in the West Junction neighborhood. The Redevelopment effort will include community development projects such as local food production and beautification efforts on blighted vacant lots.

More information on the Section 106 review process is available at:
<http://www.onecpd.info/environmental-review/historic-preservation/>.

HUD's process for tribal consultation under Section 106 is described in a Notice available at:
<https://www.onecpd.info/resource/2448/notice-cpd-12-006-tribal-consultation-under-24-cfr-part-58>.

If you do not wish to consult on this project, we ask that you let us know in a response. If you wish to consult, please include in your reply the name and contact information for the tribe's principal in the consultation. We value your assistance and look forward to consulting further if there are historic properties of religious and cultural significance to your tribe that may be affected by this project.

Sincerely,



Jim Vazquez
Administrator
Shelby County Office of Resilience
(901)636-7170
Jim.vazquez@memphistn.gov

Enclosures:

Attachment A - South Cypress Creek Design Concept
Attachment B - South Cypress Creek Quad Map with Project Limits

cc: Samantha Robison, Tribal Historic Preservation Officer

Attachment A

South Cypress Creek Design Concept

SOUTH CYPRESS CREEK DESIGN CONCEPT

OCTOBER 17, 2018

EXISTING

- CREEK ALIGNMENT
- 100YR FLOODPLAIN
- FLOODWAY
- WETLAND
- ROAD
- WALK
- OCCUPIED STRUCTURE
- VACANT STRUCTURE

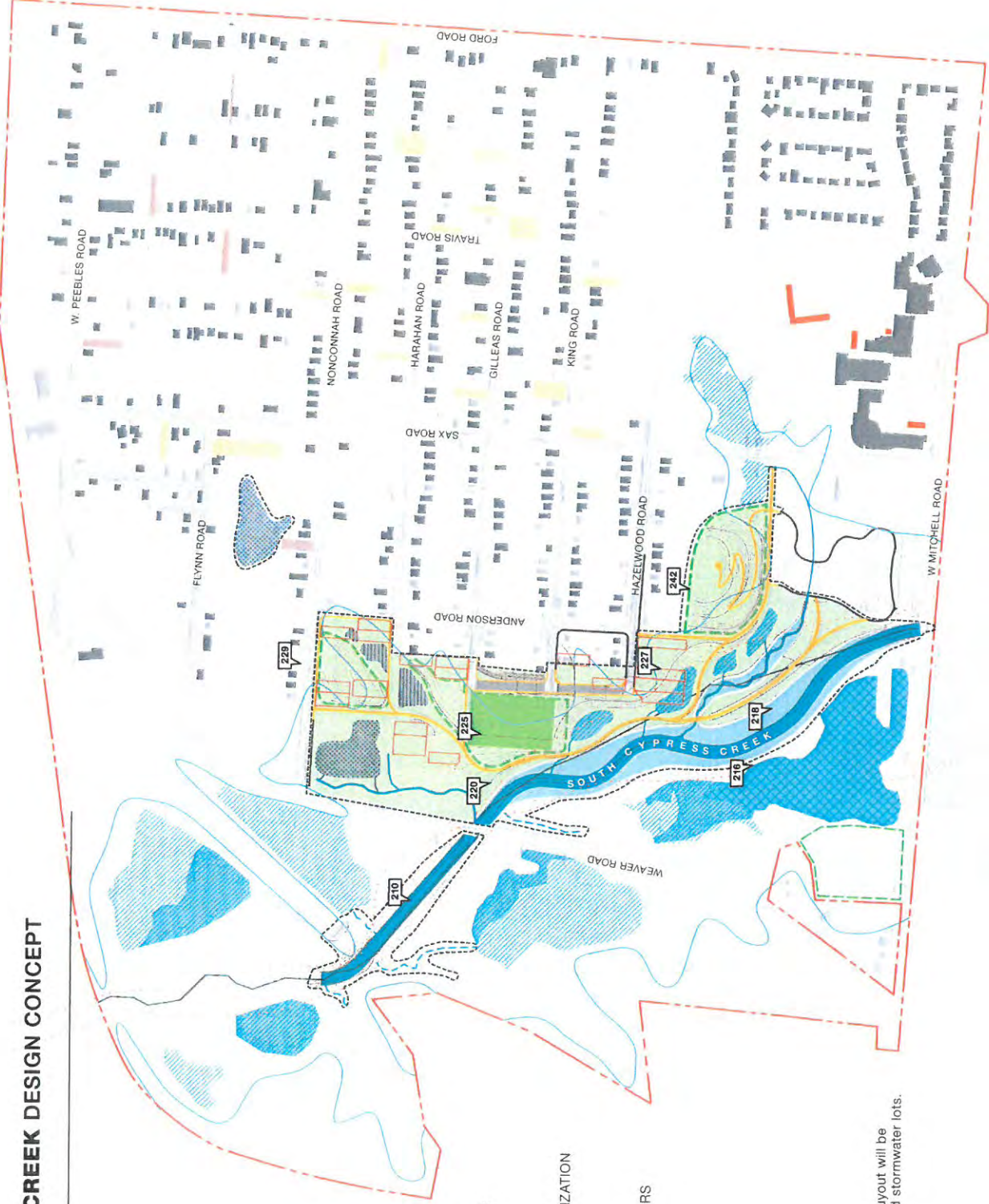
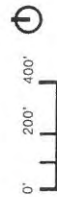
PROPOSED

- CREEK RESTORATION
- BANKFULL BENCH
- WETLAND CREATION
- WETLAND RESTORATION
- BMP
- RAINGARDEN
- REHABILITATION/ STABILIZATION
- LIMITS OF GRADING
- PARK AREA

MAJOR/ MINOR CONTOURS

- SPOIL AREA
- FIELD
- WALK
- ROAD
- HOUSING INFILL LOT
- SIDE LOT
- FOOD LOT
- PROPERTY BUYOUT (18)

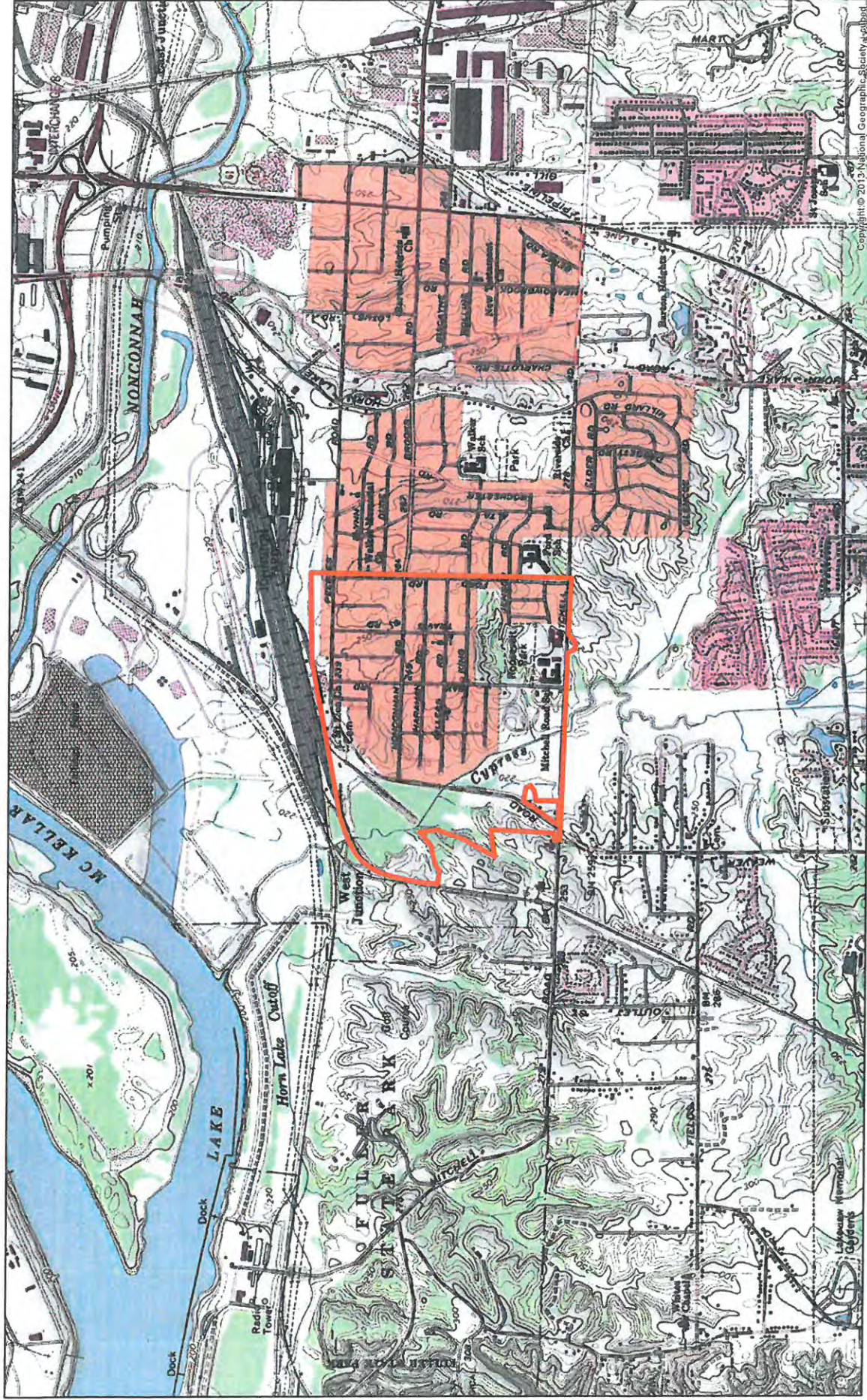
Properties identified for buyout will be redeveloped as nature and stormwater lots.



Attachment B

South Cypress Creek Quad Map With Project Limits

South Cypress Creek Restoration and Neighborhood Redevelopment Project



Southwest Memphis Quad Map
1:24000



Notes
 1. Coordinate System: NAD 1983 StatePlane Tennessee FIPS 4100 Feet
 2. Wet-Weather Conveyance: Wet-Weather Conveyance
 3. Existing Wetland: Existing Wetland

Project Limits

CCRS

Stream

Wet-Weather Conveyance

Existing Wetland

Project Location
 Shelby County, TN

Client/Project
 Sorok Associates
 Cypress Creek
 Shelby County HUD

Figure No.
 1

PROJECT LIMITS

CONCEPTUAL

Chickasaw Nation
Coordination Information

South Cypress Creek Watershed and West Junction
Neighborhood Redevelopment

From: [Vazquez, Jim](#)
To: ["tammy.gray@chickasaw.net"](#); ["hpo@chickasaw.net"](#)
Cc: ["Nisha Powers"](#); [Travis Mazerall](#); ["Modzelewski, John"](#)
Subject: Invitation To Be A Consulting Party
Date: Friday, October 26, 2018 8:34:00 AM
Attachments: [Chickasaw Consultation Invitation SCC 10-26-2018.pdf](#)

Governor Anoatubby,

Please see the attached letter and maps related to the South Cypress Creek Watershed and Neighborhood Redevelopment Project in Memphis/Shelby County, Tennessee.

Shelby County will conduct a review of the South Cypress Creek Watershed and Neighborhood Redevelopment Project to comply with Section 106 of the National Historic Preservation Act and its implementing regulations 36 CFR Part 800. We would like to invite you to be a consulting party in this review to help identify historic properties in the project area that may have religious and cultural significance to your tribe.; and if such properties exist, to help assess how the project might affect them. If the project might have an adverse effect, we would like to discuss possible ways to avoid, minimize, or mitigate potential adverse effects.

Once you have reviewed the attached letter and maps, I would appreciate a reply to let us know whether or not you would like to be a consulting party on this project. If you would like to be a consulting party, please provide me with the name and contact information for the tribe's principal representative in the consultation process. An original of this letter has also been mailed to your attention.

Thank you for your time.

Jim

Cc: Kirk Perry, Tribal Historic Preservation Officer

Jim Vazquez, Administrator
Office of Resilience
125 N. Main, Room 443
Memphis, TN 38103
Office: 901-636-7170
Fax: 901-636-6603
jim.vazquez@memphistn.gov



Shelby County Government Office of Resilience

125 N. Main Street, Room 443, MEMPHIS, TENNESSEE 38103
Tel: (901) 636-7170 Fax: (901) 636-6603

Lee Harris
Mayor

October 26, 2018

Governor Bill Anoatubby
Chickasaw Nation
PO Box 1548
Ada, OK 74821

**Re: South Cypress Creek Watershed and Neighborhood Redevelopment Project
Memphis, Shelby County TN**

HUD National Disaster Resiliency Grant, Contract Number B-13-US-47-0002.

Dear Governor Anoatubby,

The Government of Shelby County, TN has received funding from the United States Department of Housing and Urban Development to assist with resiliency planning and recovery needs resulting from the May 2011 flooding. The grant is designed to address flooding issues by improving the community's resilience to future flooding and alleviating current flooding conditions of adjacent communities. Under HUD regulation 24 CFR 58.4, the Shelby County Government has assumed HUD's environmental review responsibilities for the project, including tribal consultation related to historic properties. Historic properties include archeological sites, burial grounds, sacred landscapes or features, ceremonial areas, traditional cultural places and landscapes, plant and animal communities, and buildings and structures with significant tribal association.

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In addition to tribal consultation, Section 106 review has also been initiated with the Tennessee State Historic Preservation Officer.

If you would like to be a consulting party on this project, we respectfully ask that you notify us of your interest within 30 days. If you have any initial concerns with the project impacts on religious or cultural properties, please let us know in your response.

Attached is a Design Concept map (Attachment A) and a Quad Map with Project Limits (Attachment B) that shows the project area as well as preliminary plans and sketches. The project consists of watershed restoration within the South Cypress Creek Basin and redevelopment in the West Junction Neighborhood.

The South Cypress Creek watershed south of W. Peebles Road will be partially relocated and restored to accommodate flood storage by removing obstructions, stabilizing the stream banks, and installing stormwater management facilities. In addition to preserving existing wetlands, the proposed project will also expand existing or create new water receiving landscapes (i.e. constructed wetlands, rain gardens, bioswales and/or other natural stormwater BMPS), landforms, green open spaces, parks, and multi-purpose recreational trails that connect to the surrounding community. These elements will be designed to reduce the flood risk for the adjacent properties most susceptible to flooding within the project area, while also enhancing both the water quality and habitat of South Cypress Creek and the adjacent riparian buffer and floodplain areas.

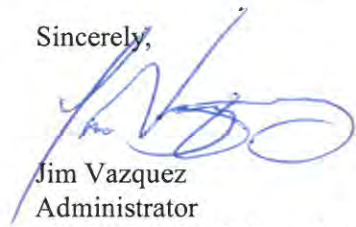
The Neighborhood Redevelopment activities will consist of a property program to buyout existing homes located within the floodplain in the West Junction neighborhood. The Redevelopment effort will include community development projects such as local food production and beautification efforts on blighted vacant lots.

More information on the Section 106 review process is available at:
<http://www.onecpd.info/environmental-review/historic-preservation/>.

HUD's process for tribal consultation under Section 106 is described in a Notice available at:
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If you do not wish to consult on this project, we ask that you let us know in a response. If you wish to consult, please include in your reply the name and contact information for the tribe's principal in the consultation. We value your assistance and look forward to consulting further if there are historic properties of religious and cultural significance to your tribe that may be affected by this project.

Sincerely,



Jim Vazquez
Administrator
Shelby County Office of Resilience
(901)636-7170
Jim.vazquez@memphistn.gov

Enclosures:

Attachment A - South Cypress Creek Design Concept
Attachment B - South Cypress Creek Quad Map with Project Limits

cc: Kirk Perry, Historic Preservation Executive Officer

Attachment A

South Cypress Creek Design Concept

SOUTH CYPRESS CREEK DESIGN CONCEPT

OCTOBER 17, 2018

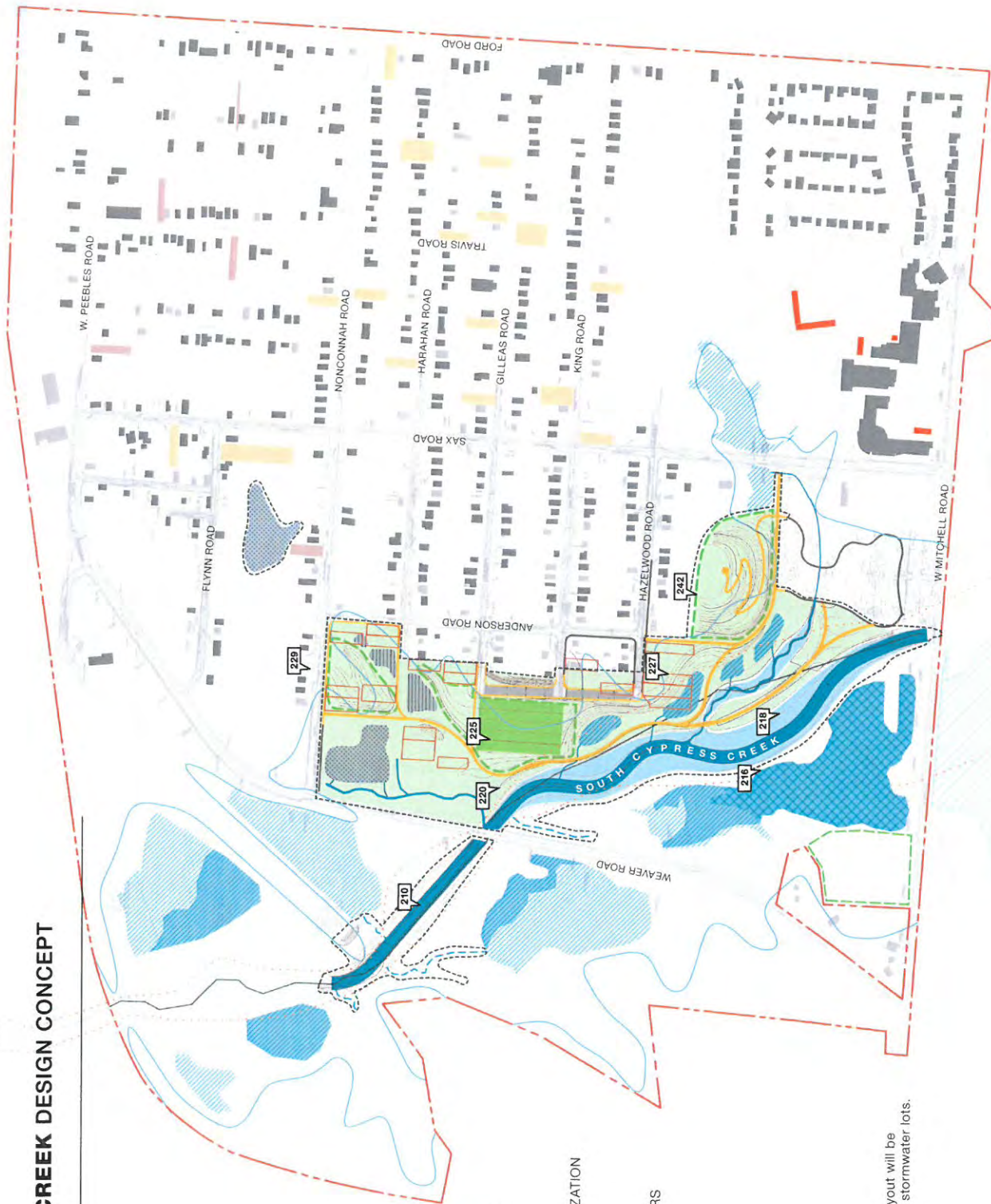
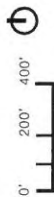
EXISTING

- CREEK ALIGNMENT
- 100YR FLOODPLAIN
- ... FLOODWAY
- WETLAND
- ROAD
- WALK
- OCCUPIED STRUCTURE
- VACANT STRUCTURE

PROPOSED

- CREEK RESTORATION
- BANKFULL BENCH
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- WETLAND RESTORATION
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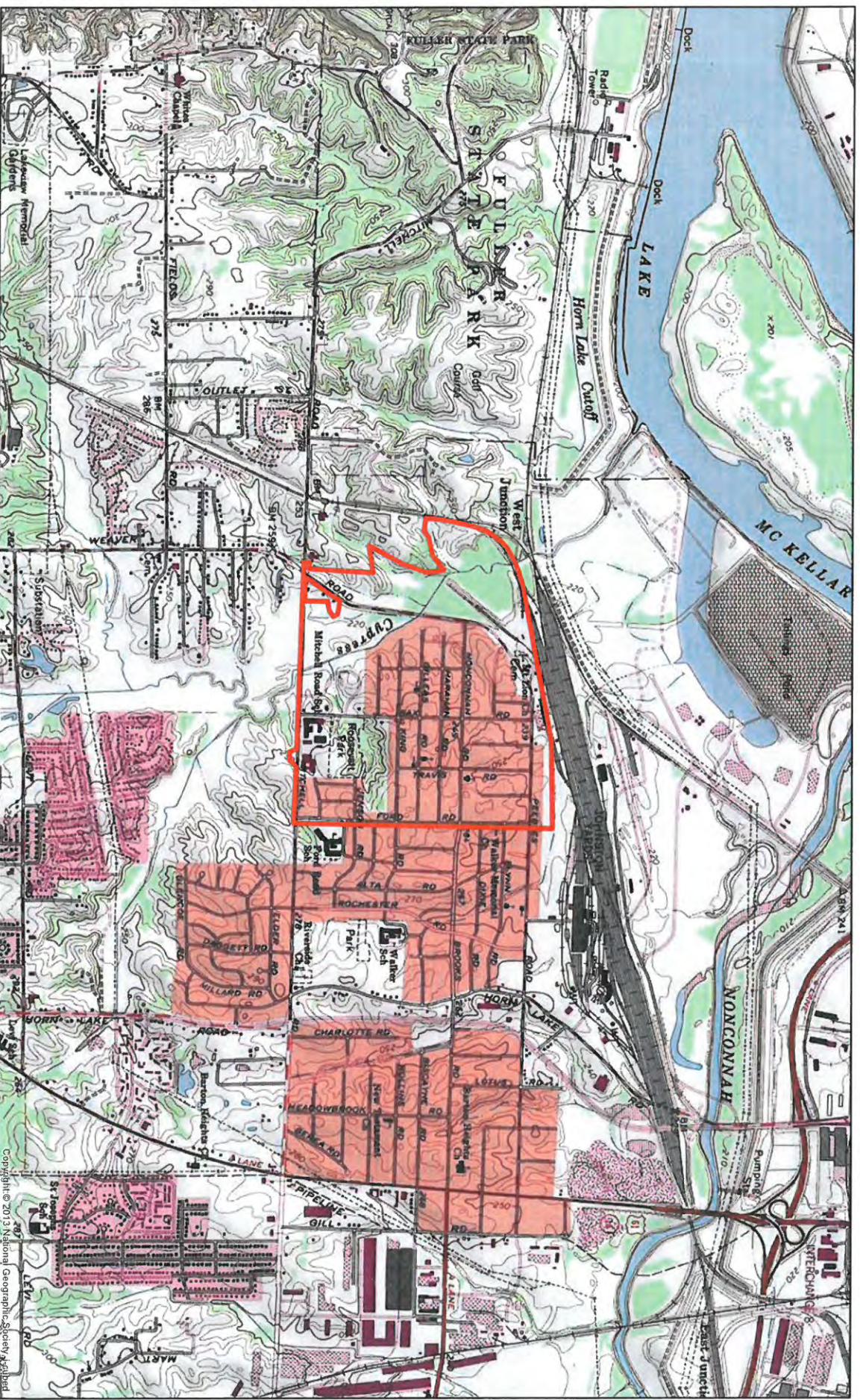
Properties identified for buyout will be redeveloped as nature and stormwater lots.



Attachment B

South Cypress Creek Quad Map With Project Limits

South Cypress Creek Restoration and Neighborhood Redevelopment Project



Southwest Memphis Quad Map
1:24000



Project Location
 Shelby County, TN
 Client/Project
 Sasaki Associates
 Cypress Creek
 Shelby County HUD
 Figure No.
 1
 Title
CONCEPTUAL
PROJECT LIMITS

Stantec
 Notes:
 1. Coordinate System: NAD 1983 StatePlane Tennessee NPS 4100
 2. Base features produced under license with the City of Memphis
 3. Contouring © 2014 Sasaki Associates, Inc.
 Legend:
 Project Limits
 CCRS
 Stream
 Wet-Weather Conveyance
 Existing Wetland

Choctaw Nation of Oklahoma
Coordination Information

South Cypress Creek Watershed and West Junction
Neighborhood Redevelopment

From: [Vazquez, Jim](#)
To: ["gbatton@choctawnation.com"](#); ["ithompson@choctawnation.com"](#)
Cc: ["Nisha Powers"](#); [Travis Mazerall](#); ["Modzelewski, John"](#)
Subject: Invitation to Be A Consulting Party
Date: Friday, October 26, 2018 8:35:00 AM
Attachments: [Choctaw Consultation Invitation SCC 10-26-2018.pdf](#)

Chief Batton,

Please see the attached letter and maps related to the South Cypress Creek Watershed and Neighborhood Redevelopment Project in Memphis/Shelby County, Tennessee.

Shelby County will conduct a review of the South Cypress Creek Watershed and Neighborhood Redevelopment Project to comply with Section 106 of the National Historic Preservation Act and its implementing regulations 36 CFR Part 800. We would like to invite you to be a consulting party in this review to help identify historic properties in the project area that may have religious and cultural significance to your tribe.; and if such properties exist, to help assess how the project might affect them. If the project might have an adverse effect, we would like to discuss possible ways to avoid, minimize, or mitigate potential adverse effects.

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Thank you for your time.

Jim

Cc: Ian Thompson, Tribal Historic Preservation Officer

Jim Vazquez, Administrator
Office of Resilience
125 N. Main, Room 443
Memphis, TN 38103
Office: 901-636-7170
Fax: 901-636-6603
jim.vazquez@memphistn.gov



Shelby County Government Office of Resilience

125 N. Main Street, Room 443, MEMPHIS, TENNESSEE 38103
Tel: (901) 636-7170 Fax: (901) 636-6603

Lee Harris
Mayor

October 26, 2018

Chief Gary Batton
Choctaw Nation of Oklahoma
PO Drawer 1210
Durant, OK 74702

**Re: South Cypress Creek Watershed and Neighborhood Redevelopment Project
Memphis, Shelby County TN**

HUD National Disaster Resiliency Grant, Contract Number B-13-US-47-0002.

Dear Chief Batton,

The Government of Shelby County, TN has received funding from the United States Department of Housing and Urban Development to assist with resiliency planning and recovery needs resulting from the May 2011 flooding. The grant is designed to address flooding issues by improving the community's resilience to future flooding and alleviating current flooding conditions of adjacent communities. Under HUD regulation 24 CFR 58.4, the Shelby County Government has assumed HUD's environmental review responsibilities for the project, including tribal consultation related to historic properties. Historic properties include archeological sites, burial grounds, sacred landscapes or features, ceremonial areas, traditional cultural places and landscapes, plant and animal communities, and buildings and structures with significant tribal association.

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In addition to tribal consultation, Section 106 review has also been initiated with the Tennessee State Historic Preservation Officer.

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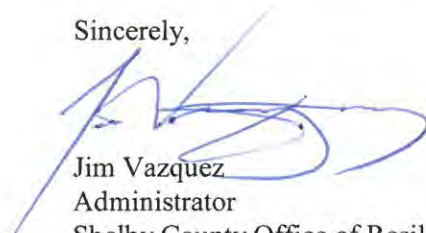
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Sincerely,



Jim Vazquez
Administrator
Shelby County Office of Resilience
(901)636-7170
Jim.vazquez@memphistn.gov

Enclosures:
Attachment A - South Cypress Creek Design Concept
Attachment B - South Cypress Creek Quad Map with Project Limits

cc: Ian Thompson, Tribal Historic Preservation Officer

Attachment A

South Cypress Creek Design Concept

SOUTH CYPRESS CREEK DESIGN CONCEPT

OCTOBER 17, 2018

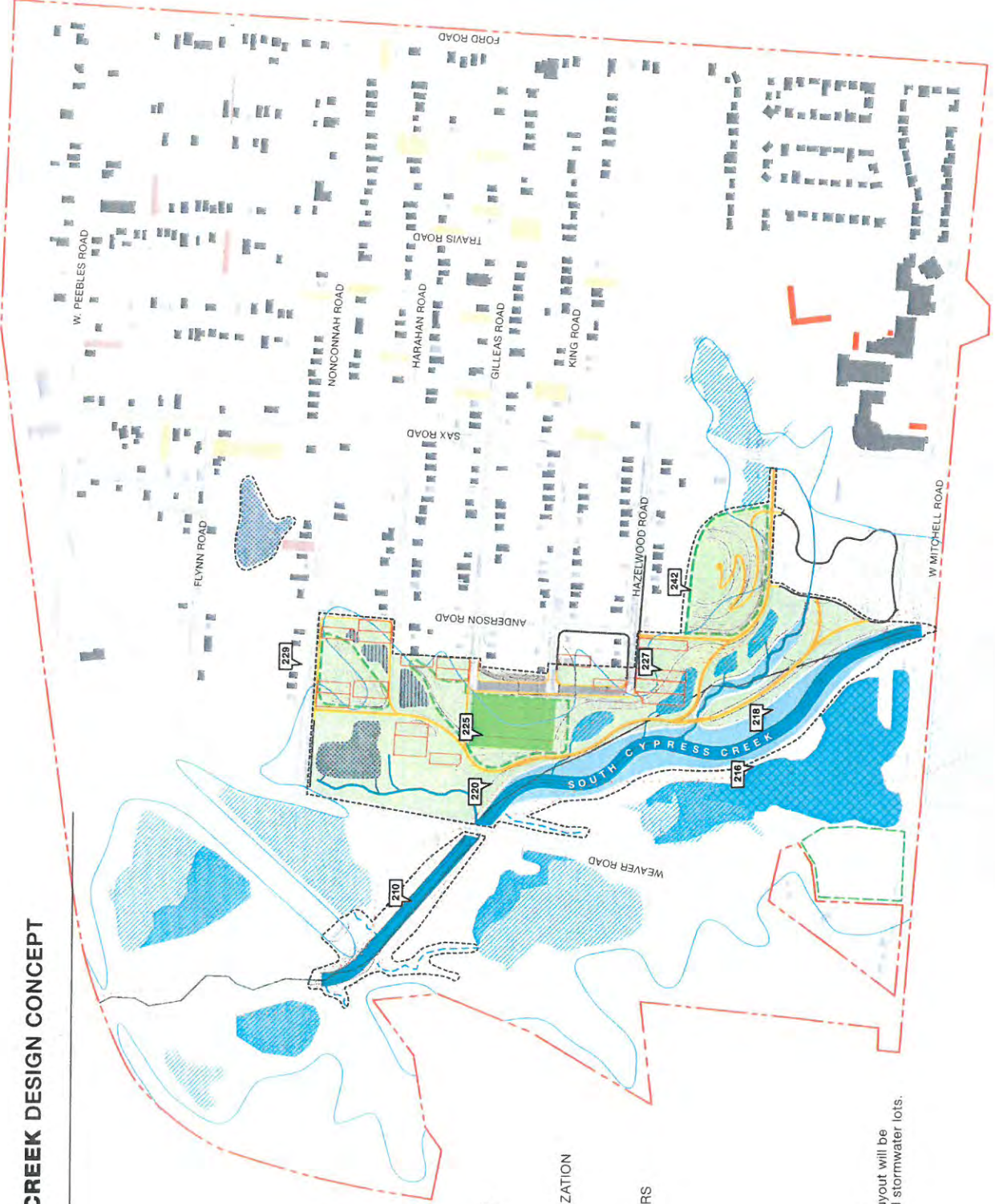
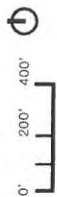
EXISTING

- CREEK ALIGNMENT
- 100YR FLOODPLAIN
- FLOODWAY
- WETLAND
- ROAD
- WALK
- OCCUPIED STRUCTURE
- VACANT STRUCTURE

PROPOSED

- CREEK RESTORATION
- BANKFULL BENCH
- WETLAND CREATION
- WETLAND RESTORATION
- BMP
- RAINGARDEN
- REHABILITATION/ STABILIZATION
- LIMITS OF GRADING
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- SPOIL AREA
- FIELD
- WALK
- ROAD
- HOUSING INFILL LOT
- SIDE LOT
- FOOD LOT
- PROPERTY BUYOUT (18)

Properties identified for buyout will be redeveloped as nature and stormwater lots.



Attachment B

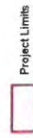
South Cypress Creek Quad Map With Project Limits

A detailed topographic map of the Horn Lake area in Mississippi. The map shows the Nonconah River flowing through the center, with the Horn Lake Cutoff to the west. A red outline highlights a specific area of interest, likely a proposed development site, located near the Horn Lake Cutoff Road and the Horn Lake Cutoff. The map includes various features such as roads, railroads, and land parcels, with contour lines indicating elevation. The area is surrounded by other land parcels and infrastructure, including a dock and a radio tower. The map is oriented with North at the top.

Copyright © 2013 National Geographic Society. All rights reserved.



- Notes**
1. Coordinate System: NAD 1983 StatePlane Tennessee FIPS 4100
 2. Base features produced under license with the Ontario Ministry of Natural Resources & Queen's Printer for Ontario, 2013.
 3. Orthorectified 30m Resolution, 2014.



Project Limits

CCRS

Stream



Wet-Weather Conveyance



Existing Wetland

Project Location

Shelby County, TN

Client/Project

Sasaki Associates
Cypress Creek
Shelby County HUD

Figure No.

1

Title

CONCEPTUAL

PROJECT LIMITS

From: [Daniel R. Ragle](#)
To: [Vazquez, Jim](#)
Subject: RE: South Cypress Creek Watershed and Neighborhood Redevelopment Project Memphis, Shelby County TN
Date: Wednesday, December 19, 2018 4:00:09 PM

***** WARNING: This is an EXTERNAL EMAIL. Please exercise caution. *****
***** DO NOT open attachments from unknown senders or unexpected email. *****
***** DO NOT click links from unknown senders or in an unexpected email. *****
***** Shelby County Information Technology Services Security Office *****

Thank you for the correspondence regarding the above referenced project and I apologize for the late response. Since the project has passed the 30 day review period, we request that our office is contacted if any Native American cultural materials or remains are encountered. If you have any questions, please contact me by email.

Daniel Ragle

Compliance Review Officer
Historic Preservation Dept.
Choctaw Nation of Oklahoma
(800) 522-6170 Ext. 2727
dragle@choctawnation.com
www.choctawnation.com
www.choctawnationculture.com



This message is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential and exempt from disclosure. If you have received this message in error, you are hereby notified that we do not consent to any reading, dissemination, distribution or copying of this message. If you have received this communication in error, please notify the sender immediately and destroy the transmitted information. Please note that any view or opinions presented in this email are solely those of the author and do not necessarily represent those of the Choctaw Nation.

From: [Daniel R. Ragle](#)
To: [Vazquez, Jim](#)
Subject: RE: South Cypress Creek Watershed and Neighborhood Redevelopment Project Memphis, Shelby County TN
Date: Thursday, December 20, 2018 10:02:07 AM

Thank you!

Daniel Ragle

Compliance Review Officer
Historic Preservation Dept.
Choctaw Nation of Oklahoma
(800) 522-6170 Ext. 2727
dragle@choctawnation.com
www.choctawnation.com
www.choctawnationculture.com



From: Vazquez, Jim [mailto:Jim.Vazquez@memphistn.gov]
Sent: Thursday, December 20, 2018 9:59 AM
To: Daniel R. Ragle <dragle@choctawnation.com>
Cc: Nisha Powers <npowers@phdmemphis.com>; Travis Mazerall <tmazerall@sasaki.com>;
Modzelewski, John <John.Modzelewski@shelbycountyttn.gov>
Subject: RE: South Cypress Creek Watershed and Neighborhood Redevelopment Project Memphis,
Shelby County TN

Halito: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Mr. Ragle,

Thank you for the email. We will most certainly contact your office if any Native American cultural materials or remains are encountered as part of the project.

I am copying the other key team members in on this email so that they are also award of your request. If you have any additional questions, please don't hesitate to contact me or Ms. Nisha Powers (Powers Hill Design) directly at npowers@phdmemphis.com.

Jim

Jim Vazquez, Administrator
Office of Resilience
125 N. Main, Room 443
Memphis, TN 38103
Office: 901-636-7170
Fax: 901-636-6603

jim.vazquez@memphistn.gov

From: Daniel R. Ragle [<mailto:dragle@choctawnation.com>]

Sent: Wednesday, December 19, 2018 3:58 PM

To: Vazquez, Jim <Jim.Vazquez@shelbycountyttn.gov>

Subject: RE: South Cypress Creek Watershed and Neighborhood Redevelopment Project Memphis, Shelby County TN

***** WARNING: This is an EXTERNAL EMAIL. Please exercise caution. *****
***** DO NOT open attachments from unknown senders or unexpected email. *****
***** DO NOT click links from unknown senders or in an unexpected email. *****
***** Shelby County Information Technology Services Security Office *****

Thank you for the correspondence regarding the above referenced project and I apologize for the late response. Since the project has passed the 30 day review period, we request that our office is contacted if any Native American cultural materials or remains are encountered. If you have any questions, please contact me by email.

Daniel Ragle

Compliance Review Officer
Historic Preservation Dept.
Choctaw Nation of Oklahoma
(800) 522-6170 Ext. 2727
dragle@choctawnation.com
www.choctawnation.com
www.choctawnationculture.com



This message is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential and exempt from disclosure. If you have received this message in error, you are hereby notified that we do not consent to any reading, dissemination, distribution or copying of this message. If you have received this communication in error, please notify the sender immediately and destroy the transmitted information. Please note that any view or opinions presented in this email are solely those of the author and do not necessarily represent those of the Choctaw Nation.

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From: [Vazquez, Jim](#)
To: ["Daniel R. Ragle"](#)
Cc: ["Nisha Powers"](#); ["Modzelewski, John"](#)
Subject: RE: South Cypress Creek Watershed and Neighborhood Redevelopment Project, Memphis, Shelby County TN
Date: Thursday, January 03, 2019 9:24:00 AM

Mr. Ragle,

Thank you for your response and comment. If any cultural materials or remains are found during implementation of the project, we will be sure to notify you.

Jim

From: Daniel R. Ragle [mailto:dragle@choctawnation.com]
Sent: Wednesday, December 26, 2018 10:42 AM
To: Vazquez, Jim <Jim.Vazquez@memphistn.gov>
Subject: RE: South Cypress Creek Watershed and Neighborhood Redevelopment Project, Memphis, Shelby County TN

Thank you for the information regarding the above referenced project and I apologize for the late response. Since the project has passed the 30 day review period, we request that our office is contacted if any Native American cultural materials or remains are encountered. If you have any questions, please contact me by email.

Daniel Ragle

Compliance Review Officer
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Coushatta Tribe of Louisiana
Coordination Information

South Cypress Creek Watershed and West Junction
Neighborhood Redevelopment

From: [Vazquez, Jim](#)
To: [David Sickey](#); "[Linda Langley](#)"
Cc: "[Nisha Powers](#)"; [Travis Mazerall](#); "[Modzelewski, John](#)"
Subject: Invitation To Be A Consulting Party
Date: Friday, October 26, 2018 8:32:00 AM
Attachments: [Coushatta Consultation Invitation SCC 10-26-2018.pdf](#)

Chairman Sickey,

Please see the attached letter and maps related to the South Cypress Creek Watershed and Neighborhood Redevelopment Project in Memphis/Shelby County, Tennessee.

Shelby County will conduct a review of the South Cypress Creek Watershed and Neighborhood Redevelopment Project to comply with Section 106 of the National Historic Preservation Act and its implementing regulations 36 CFR Part 800. We would like to invite you to be a consulting party in this review to help identify historic properties in the project area that may have religious and cultural significance to your tribe.; and if such properties exist, to help assess how the project might affect them. If the project might have an adverse effect, we would like to discuss possible ways to avoid, minimize, or mitigate potential adverse effects.

Once you have reviewed the attached letter and maps, I would appreciate a reply to let us know whether or not you would like to be a consulting party on this project. If you would like to be a consulting party, please provide me with the name and contact information for the tribe's principal representative in the consultation process. An original of this letter has also been mailed to your attention.

Thanks you for your time.

Jim

Cc: Linda Langley, Tribal Historic Preservation Officer

Jim Vazquez, Administrator
Office of Resilience
125 N. Main, Room 443
Memphis, TN 38103
Office: 901-636-7170
Fax: 901-636-6603
jim.vazquez@memphistn.gov



Shelby County Government Office of Resilience

125 N. Main Street, Room 443, MEMPHIS, TENNESSEE 38103
Tel: (901) 636-7170 Fax: (901) 636-6603

Lee Harris
Mayor

October 26, 2018

Chairman David Sickey
Coushatta Tribe of Louisiana
PO Box 818
Elton, LA 70532

**Re: South Cypress Creek Watershed and Neighborhood Redevelopment Project
Memphis, Shelby County TN**

HUD National Disaster Resiliency Grant, Contract Number B-13-US-47-0002.

Dear Chairman Sickey,

The Government of Shelby County, TN has received funding from the United States Department of Housing and Urban Development to assist with resiliency planning and recovery needs resulting from the May 2011 flooding. The grant is designed to address flooding issues by improving the community's resilience to future flooding and alleviating current flooding conditions of adjacent communities. Under HUD regulation 24 CFR 58.4, the Shelby County Government has assumed HUD's environmental review responsibilities for the project, including tribal consultation related to historic properties. Historic properties include archeological sites, burial grounds, sacred landscapes or features, ceremonial areas, traditional cultural places and landscapes, plant and animal communities, and buildings and structures with significant tribal association.

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In addition to tribal consultation, Section 106 review has also been initiated with the Tennessee State Historic Preservation Officer.

If you would like to be a consulting party on this project, we respectfully ask that you notify us of your interest within 30 days. If you have any initial concerns with the project impacts on religious or cultural properties, please let us know in your response.

Attached is a Design Concept map (Attachment A) and a Quad Map with Project Limits (Attachment B) that shows the project area as well as preliminary plans and sketches. The project consists of watershed

restoration within the South Cypress Creek Basin and redevelopment in the West Junction Neighborhood. The South Cypress Creek watershed south of W. Peebles Road will be partially relocated and restored to accommodate flood storage by removing obstructions, stabilizing the stream banks, and installing stormwater management facilities. In addition to preserving existing wetlands, the proposed project will also expand existing or create new water receiving landscapes (i.e. constructed wetlands, rain gardens, bioswales and/or other natural stormwater BMPS), landforms, green open spaces, parks, and multi-purpose recreational trails that connect to the surrounding community. These elements will be designed to reduce the flood risk for the adjacent properties most susceptible to flooding within the project area, while also enhancing both the water quality and habitat of South Cypress Creek and the adjacent riparian buffer and floodplain areas.

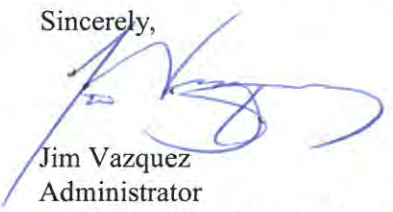
The Neighborhood Redevelopment activities will consist of a property program to buyout existing homes located within the floodplain in the West Junction neighborhood. The Redevelopment effort will include community development projects such as local food production and beautification efforts on blighted vacant lots.

More information on the Section 106 review process is available at:
<http://www.onecpd.info/environmental-review/historic-preservation/>.

HUD's process for tribal consultation under Section 106 is described in a Notice available at:
<https://www.onecpd.info/resource/2448/notice-cpd-12-006-tribal-consultation-under-24-cfr-part-58>.

If you do not wish to consult on this project, we ask that you let us know in a response. If you wish to consult, please include in your reply the name and contact information for the tribe's principal in the consultation. We value your assistance and look forward to consulting further if there are historic properties of religious and cultural significance to your tribe that may be affected by this project.

Sincerely,



Jim Vazquez
Administrator
Shelby County Office of Resilience
(901)636-7170
Jim.vazquez@memphistn.gov

Enclosures:
Attachment A - South Cypress Creek Design Concept
Attachment B - South Cypress Creek Quad Map with Project Limits

cc: Linda Langley, Tribal Historic Preservation Officer

Attachment A

South Cypress Creek Design Concept

SOUTH CYPRESS CREEK DESIGN CONCEPT

OCTOBER 17, 2018

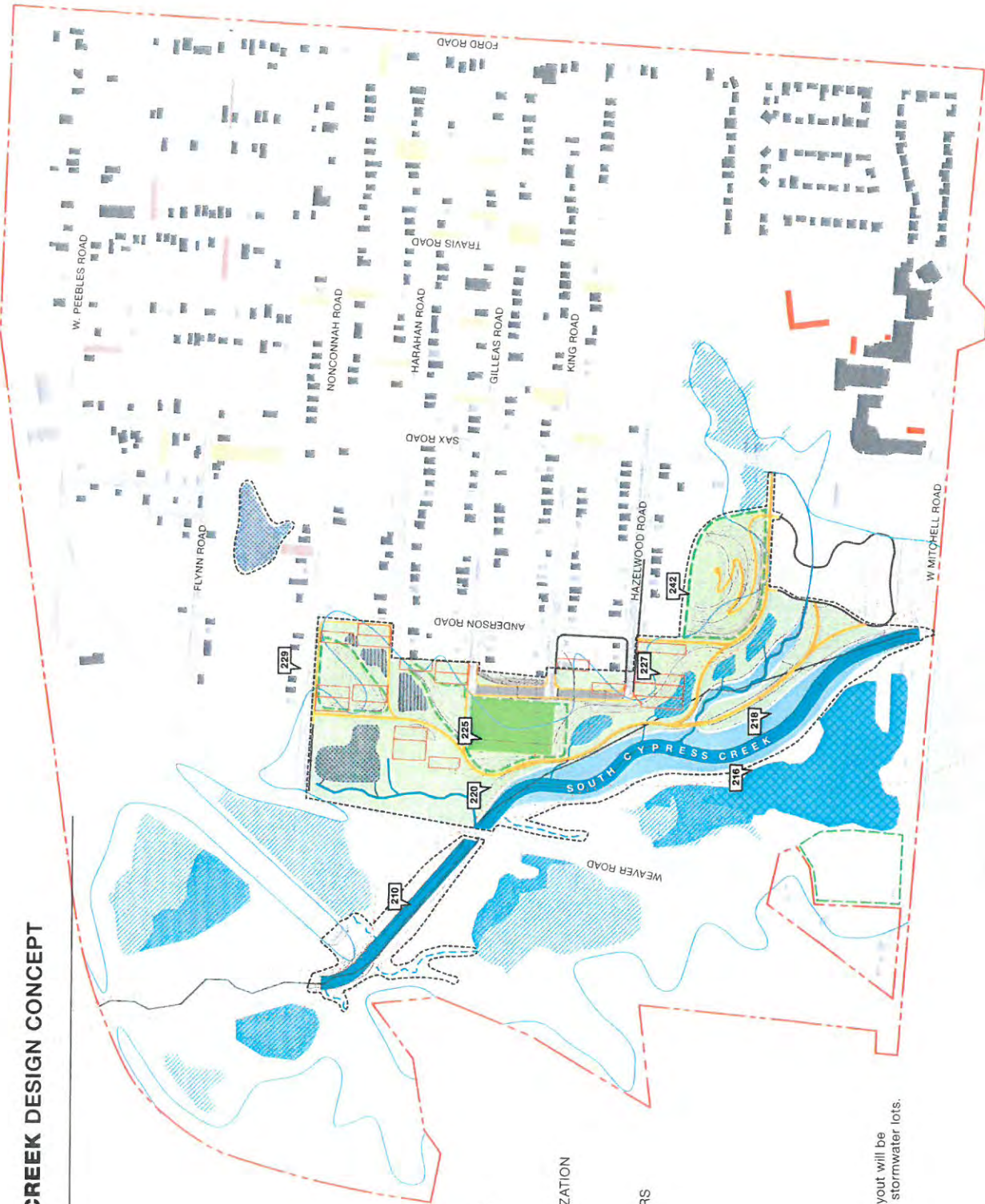
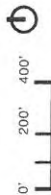
EXISTING

- CREEK ALIGNMENT
- 100YR FLOODPLAIN
- FLOODWAY
- WETLAND
- ROAD
- WALK
- OCCUPIED STRUCTURE
- VACANT STRUCTURE

PROPOSED

- CREEK RESTORATION
- BANKFULL BENCH
- WETLAND CREATION
- WETLAND RESTORATION
- BMP
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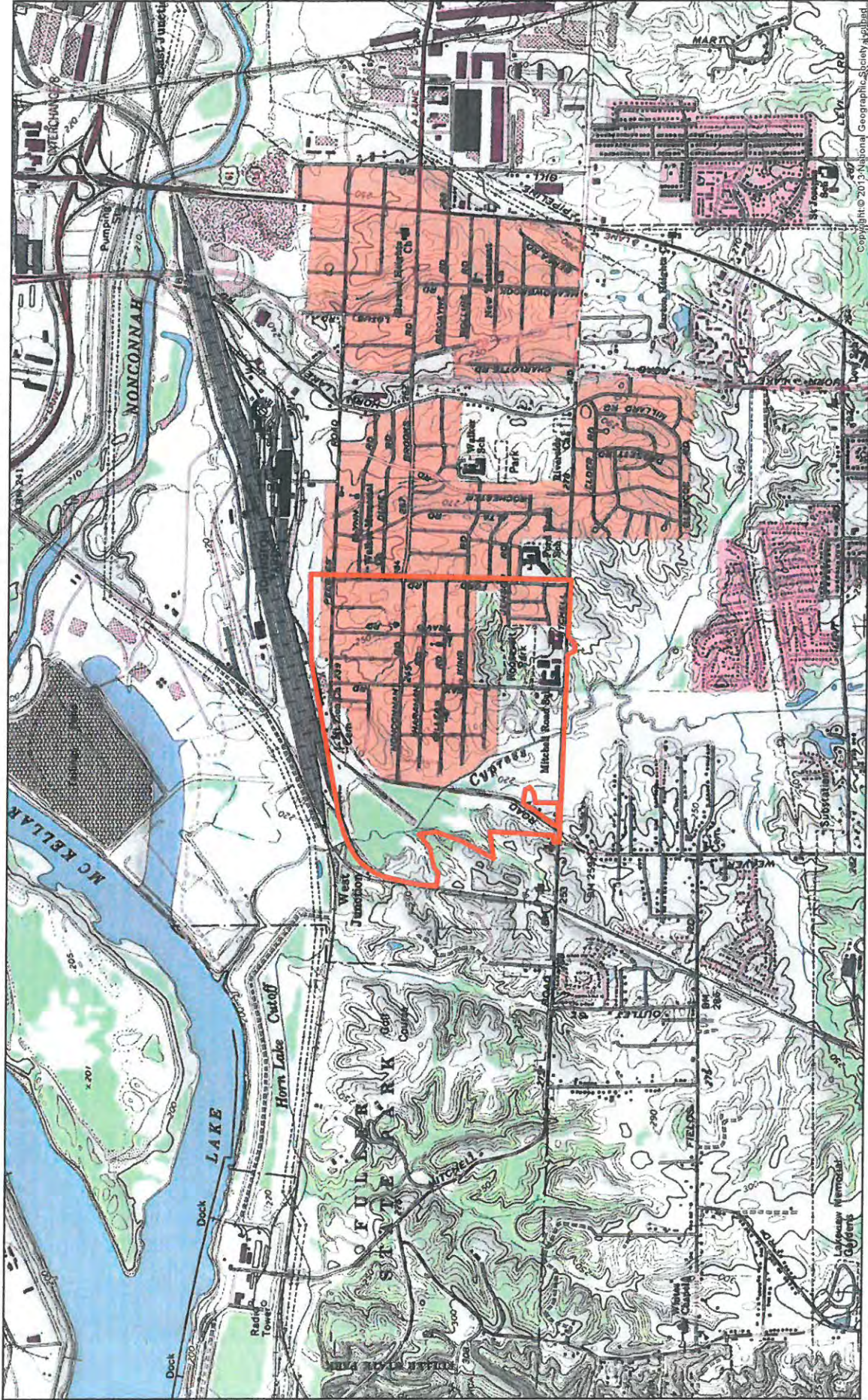
Properties identified for buyout will be redeveloped as nature and stormwater lots.



Attachment B

South Cypress Creek Quad Map With Project Limits

South Cypress Creek Restoration and Neighborhood Redevelopment Project



Southwest Memphis Quad Map
1:24000



Notes

1. Coordinate System: NAD 1983 StatePlane Tennessee FIPS 4100
2. Base features produced under license with the Creative Mobility of Natural Resources & Geospatial Center for Ontario, 2013.
3. Contour interval: 6 FTL Base Station: 20m.

Project Limits

CCMS

Stream

Wet-Weather Conveyance

Existing Wetland

Project Location
Shelby County, TN

Client/Project
Sasaki Associates
Cypress Creek
Shelby County HUD

Figure No.
1

PROJECT LIMITS

CONCEPTUAL

172637016
Prepared by MAS on 2018-06-07
Reviewed by JRF on 2018-06-07

Muscogee (Creek) Nation
Coordination Information

South Cypress Creek Watershed and West Junction
Neighborhood Redevelopment

From: [Vazquez, Jim](#)
To: ["jfloyd@mcn-nsn.gov"](#); ["section106@mcn-nsn.gov"](#)
Cc: ["Nisha Powers"](#); [Travis Mazerall](#); ["Modzelewski, John"](#)
Subject: Invitation To Be A Consulting Party
Date: Friday, October 26, 2018 8:33:00 AM
Attachments: [Muscogee \(Creek\) Consultation Invitation 10-26-2018.pdf](#)

Principal Chief Floyd,

Please see the attached letter and maps related to the South Cypress Creek Watershed and Neighborhood Redevelopment Project in Memphis/Shelby County, Tennessee.

Shelby County will conduct a review of the South Cypress Creek Watershed and Neighborhood Redevelopment Project to comply with Section 106 of the National Historic Preservation Act and its implementing regulations 36 CFR Part 800. We would like to invite you to be a consulting party in this review to help identify historic properties in the project area that may have religious and cultural significance to your tribe.; and if such properties exist, to help assess how the project might affect them. If the project might have an adverse effect, we would like to discuss possible ways to avoid, minimize, or mitigate potential adverse effects.

Once you have reviewed the attached letter and maps, I would appreciate a reply to let us know whether or not you would like to be a consulting party on this project. If you would like to be a consulting party, please provide me with the name and contact information for the tribe's principal representative in the consultation process. An original of this letter has also been mailed to your attention.

Thanks you for your time.

Jim

Cc: RaeLynn Butler, Tribal Historic Preservation Officer

Jim Vazquez, Administrator
Office of Resilience
125 N. Main, Room 443
Memphis, TN 38103
Office: 901-636-7170
Fax: 901-636-6603
jim.vazquez@memphistn.gov



Shelby County Government Office of Resilience

125 N. Main Street, Room 443, MEMPHIS, TENNESSEE 38103
Tel: (901) 636-7170 Fax: (901) 636-6603

Lee Harris
Mayor

October 26, 2018

Principal Chief James Floyd
Muscogee (Creek) Nation
PO Box 580
Okmulgee, OK 74447

**Re: South Cypress Creek Watershed and Neighborhood Redevelopment Project
Memphis, Shelby County TN**

HUD National Disaster Resiliency Grant, Contract Number B-13-US-47-0002.

Dear Principal Chief Floyd,

The Government of Shelby County, TN has received funding from the United States Department of Housing and Urban Development to assist with resiliency planning and recovery needs resulting from the May 2011 flooding. The grant is designed to address flooding issues by improving the community's resilience to future flooding and alleviating current flooding conditions of adjacent communities. Under HUD regulation 24 CFR 58.4, the Shelby County Government has assumed HUD's environmental review responsibilities for the project, including tribal consultation related to historic properties. Historic properties include archeological sites, burial grounds, sacred landscapes or features, ceremonial areas, traditional cultural places and landscapes, plant and animal communities, and buildings and structures with significant tribal association.

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In addition to tribal consultation, Section 106 review has also been initiated with the Tennessee State Historic Preservation Officer.

If you would like to be a consulting party on this project, we respectfully ask that you notify us of your interest within 30 days. If you have any initial concerns with the project impacts on religious or cultural properties, please let us know in your response.

Attached is a Design Concept map (Attachment A) and a Quad Map with Project Limits (Attachment B) that shows the project area as well as preliminary plans and sketches. The project consists of watershed

restoration within the South Cypress Creek Basin and redevelopment in the West Junction Neighborhood. The South Cypress Creek watershed south of W. Peebles Road will be partially relocated and restored to accommodate flood storage by removing obstructions, stabilizing the stream banks, and installing stormwater management facilities. In addition to preserving existing wetlands, the proposed project will also expand existing or create new water receiving landscapes (i.e. constructed wetlands, rain gardens, bioswales and/or other natural stormwater BMPS), landforms, green open spaces, parks, and multi-purpose recreational trails that connect to the surrounding community. These elements will be designed to reduce the flood risk for the adjacent properties most susceptible to flooding within the project area, while also enhancing both the water quality and habitat of South Cypress Creek and the adjacent riparian buffer and floodplain areas.

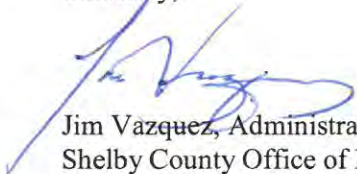
The Neighborhood Redevelopment activities will consist of a property program to buyout existing homes located within the floodplain in the West Junction neighborhood. The Redevelopment effort will include community development projects such as local food production and beautification efforts on blighted vacant lots.

More information on the Section 106 review process is available at:
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HUD's process for tribal consultation under Section 106 is described in a Notice available at:
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If you do not wish to consult on this project, we ask that you let us know in a response. If you wish to consult, please include in your reply the name and contact information for the tribe's principal in the consultation. We value your assistance and look forward to consulting further if there are historic properties of religious and cultural significance to your tribe that may be affected by this project.

Sincerely,



Jim Vazquez, Administrator
Shelby County Office of Resilience
(901)636-7170
Jim.vazquez@memphistn.gov

Enclosures:

Attachment A - South Cypress Creek Design Concept

Attachment B - South Cypress Creek Quad Map with Project Limits

cc: RaeLynn Butler, Tribal Historic Preservation Officer

Attachment A

South Cypress Creek Design Concept

SOUTH CYPRESS CREEK DESIGN CONCEPT

OCTOBER 17, 2018

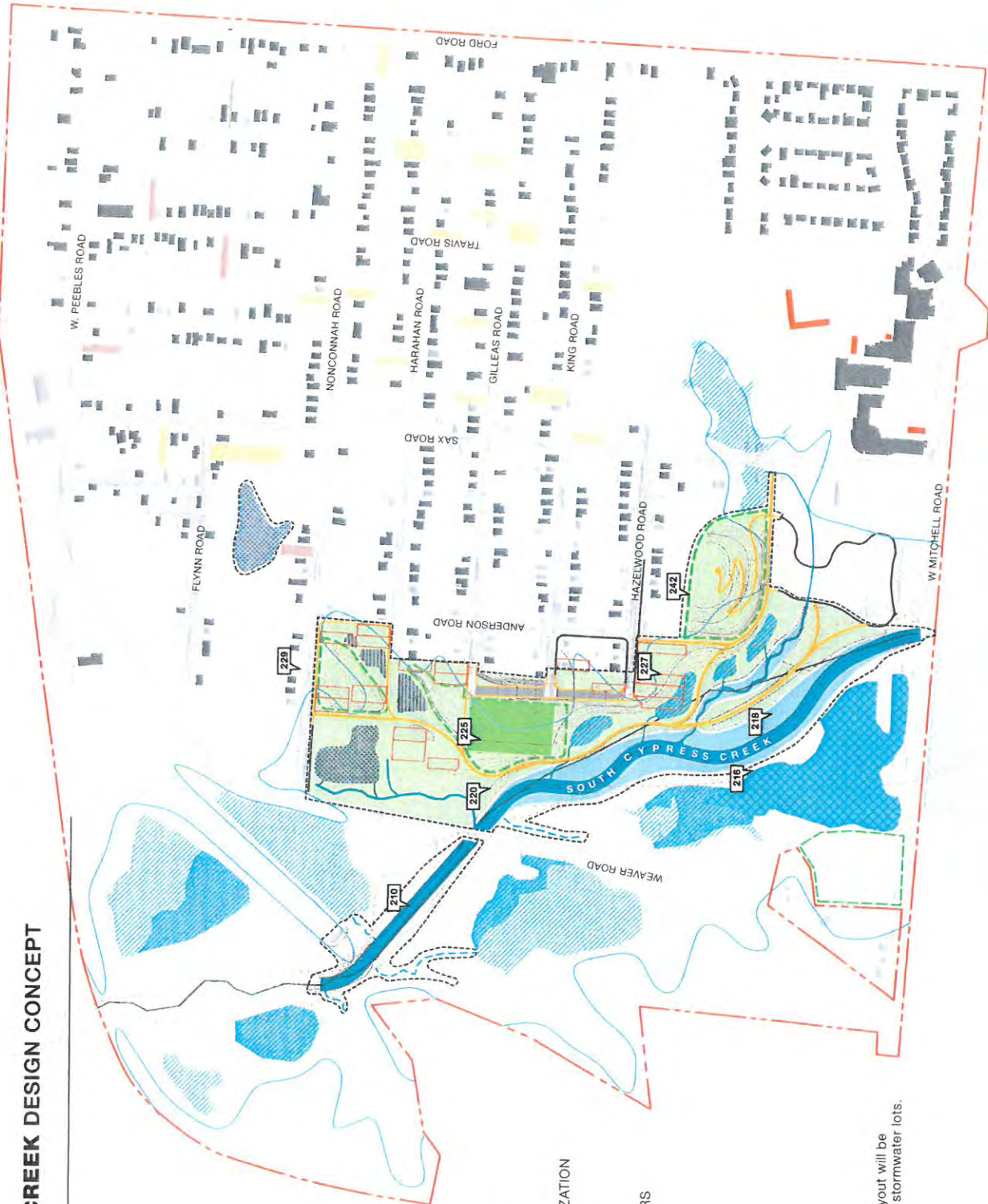
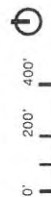
EXISTING

- CREEK ALIGNMENT
- 100YR FLOODPLAIN
- FLOODWAY
- WETLAND
- ROAD
- WALK
- OCCUPIED STRUCTURE
- VACANT STRUCTURE

PROPOSED

- CREEK RESTORATION
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- WETLAND CREATION
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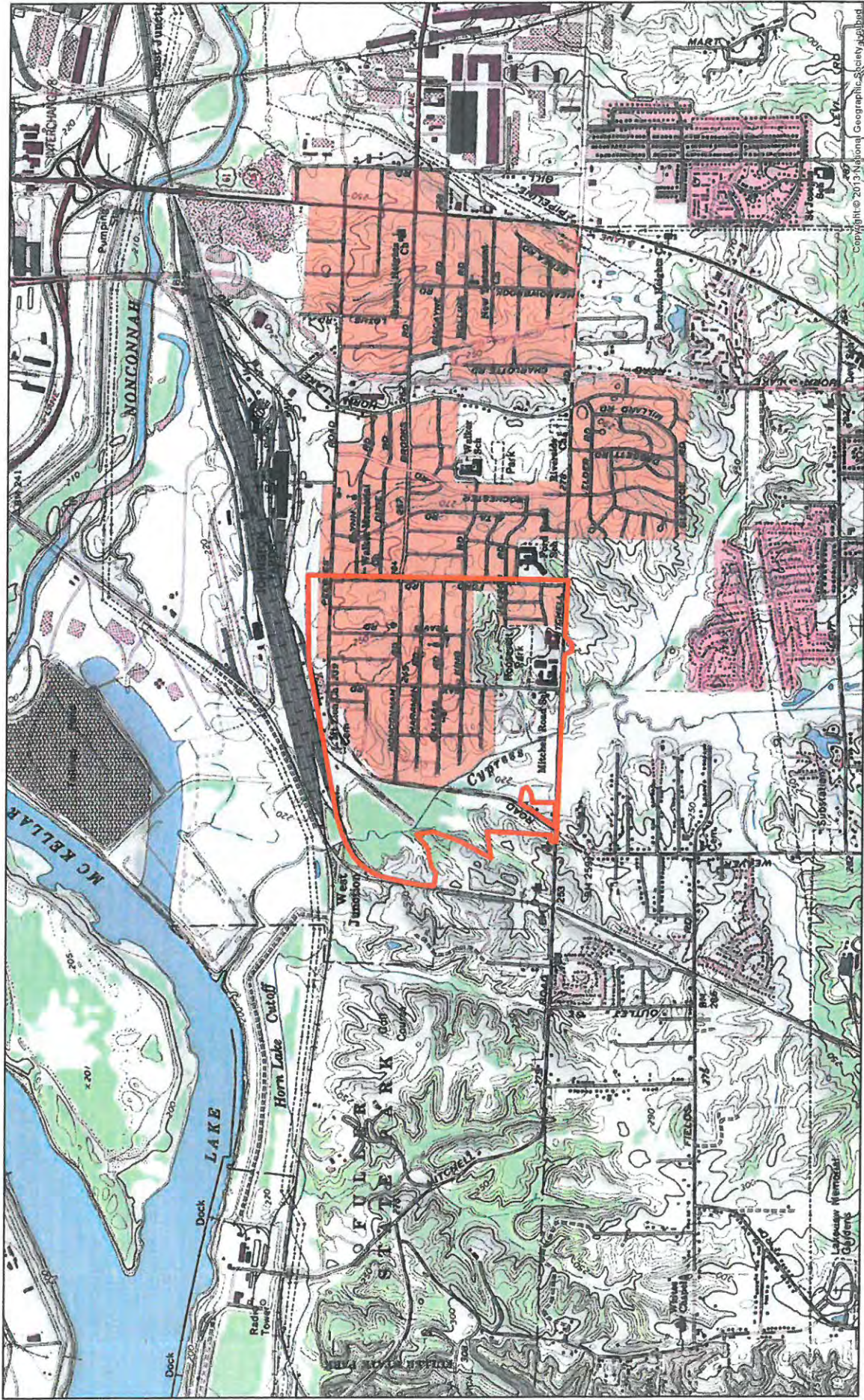
Properties identified for buyout will be redeveloped as nature and stormwater lots.



Attachment B

South Cypress Creek Quad Map With Project Limits

South Cypress Creek Restoration and Neighborhood Redevelopment Project



Southwest Memphis Quad Map
1:24000



Notes:
 1. Coordinate System: NAD 1983 StatePlane Tennessee IPSS, 4100 Feet
 2. Wet-Weather Conveyance: Areas shaded in light green
 3. Existing Wetland: Areas shaded in dark green

Project Limits
 CCRS
 Stream
 Wet-Weather Conveyance
 Existing Wetland

Project Location
 Shelby County, TN
 Client/Project
 Saraki Associates
 Cypress Creek
 Shelby County HUD
 Figure No.
 1
 Title
CONCEPTUAL
PROJECT LIMITS

From: [Corain Lowe](#)
To: [Vazquez, Jim](#)
Subject: South Cypress Creek
Date: Friday, December 14, 2018 9:55:58 AM
Attachments: [South Cypress Creek Watershed and Neighborhood Redevelopment Project, Memphis, Shelby county, TN.pdf](#)

Mr. Vazquez,

Please refer to attached file regarding project mentioned above. Thank you.

Ms. Corain Lowe-Zepeda

Historic and Cultural Preservation Department, THPO
Muscogee (Creek) Nation
P. O. Box 580
Okmulgee, OK 74447
T 918.732.7835
clowe@mcn-nsn.gov

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Quapaw Nation of Oklahoma
Coordination Information

South Cypress Creek Watershed and West Junction
Neighborhood Redevelopment

From: [Vazquez, Jim](#)
To: ["jberrey@ogahpah.com"](#); ["ebandy@quapawtribe.com"](#)
Cc: ["Nisha Powers"](#); [Travis Mazerall](#); ["Modzelewski, John"](#)
Subject: Invitation To Be A Consulting Party
Date: Friday, October 26, 2018 8:32:00 AM
Attachments: [Quapaw Consultation Invitation SCC 10-26-2018.pdf](#)

Chairperson Berrey,

Please see the attached letter and maps related to the South Cypress Creek Watershed and Neighborhood Redevelopment Project in Memphis/Shelby County, Tennessee.

Shelby County will conduct a review of the South Cypress Creek Watershed and Neighborhood Redevelopment Project to comply with Section 106 of the National Historic Preservation Act and its implementing regulations 36 CFR Part 800. We would like to invite you to be a consulting party in this review to help identify historic properties in the project area that may have religious and cultural significance to your tribe.; and if such properties exist, to help assess how the project might affect them. If the project might have an adverse effect, we would like to discuss possible ways to avoid, minimize, or mitigate potential adverse effects.

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Thanks you for your time.

Jim

Cc: Everett Bandy, Tribal Historic Preservation Officer

Jim Vazquez, Administrator
Office of Resilience
125 N. Main, Room 443
Memphis, TN 38103
Office: 901-636-7170
Fax: 901-636-6603
jim.vazquez@memphistn.gov



Shelby County Government Office of Resilience

125 N. Main Street, Room 443, MEMPHIS, TENNESSEE 38103
Tel: (901) 636-7170 Fax: (901) 636-6603

Lee Harris
Mayor

October 26, 2018

Chairperson John Berrey
Quapaw Tribe of Indians
PO Box 765
Quapaw, OK 74363

**Re: South Cypress Creek Watershed and Neighborhood Redevelopment Project
Memphis, Shelby County TN**

HUD National Disaster Resiliency Grant, Contract Number B-13-US-47-0002.

Dear Chairperson Berrey,

The Government of Shelby County, TN has received funding from the United States Department of Housing and Urban Development to assist with resiliency planning and recovery needs resulting from the May 2011 flooding. The grant is designed to address flooding issues by improving the community's resilience to future flooding and alleviating current flooding conditions of adjacent communities. Under HUD regulation 24 CFR 58.4, the Shelby County Government has assumed HUD's environmental review responsibilities for the project, including tribal consultation related to historic properties. Historic properties include archeological sites, burial grounds, sacred landscapes or features, ceremonial areas, traditional cultural places and landscapes, plant and animal communities, and buildings and structures with significant tribal association.

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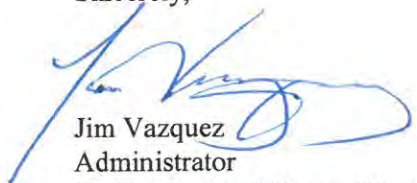
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Sincerely,



Jim Vazquez
Administrator
Shelby County Office of Resilience
(901)636-7170
Jim.vazquez@memphistn.gov

Enclosures:

Attachment A - South Cypress Creek Design Concept
Attachment B - South Cypress Creek Quad Map with Project Limits

cc: Everett Bandy, Tribal Historic Preservation Officer

Attachment A

South Cypress Creek Design Concept

SOUTH CYPRESS CREEK DESIGN CONCEPT

OCTOBER 17, 2018

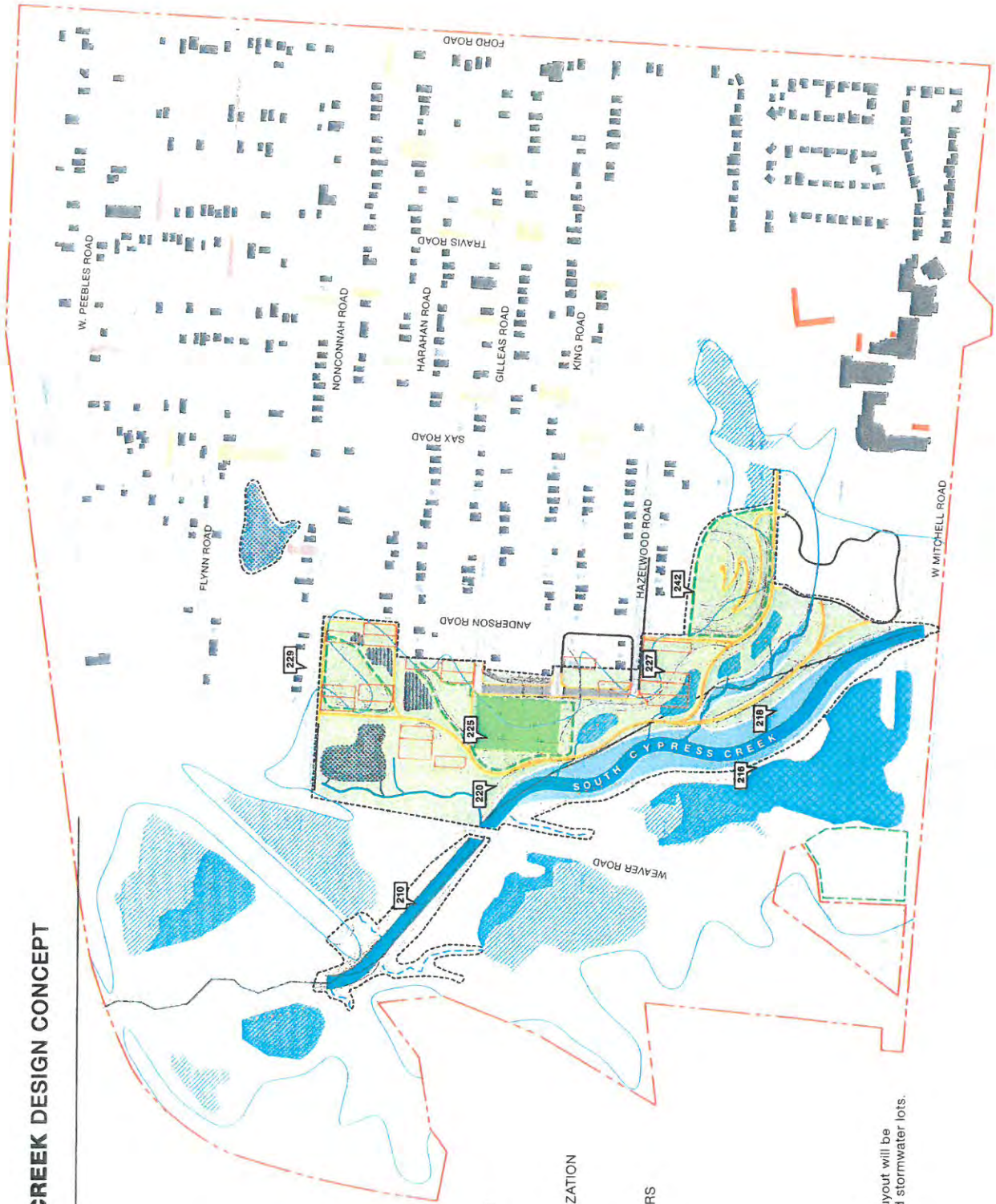
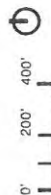
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PROPOSED

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- BANKFULL BENCH
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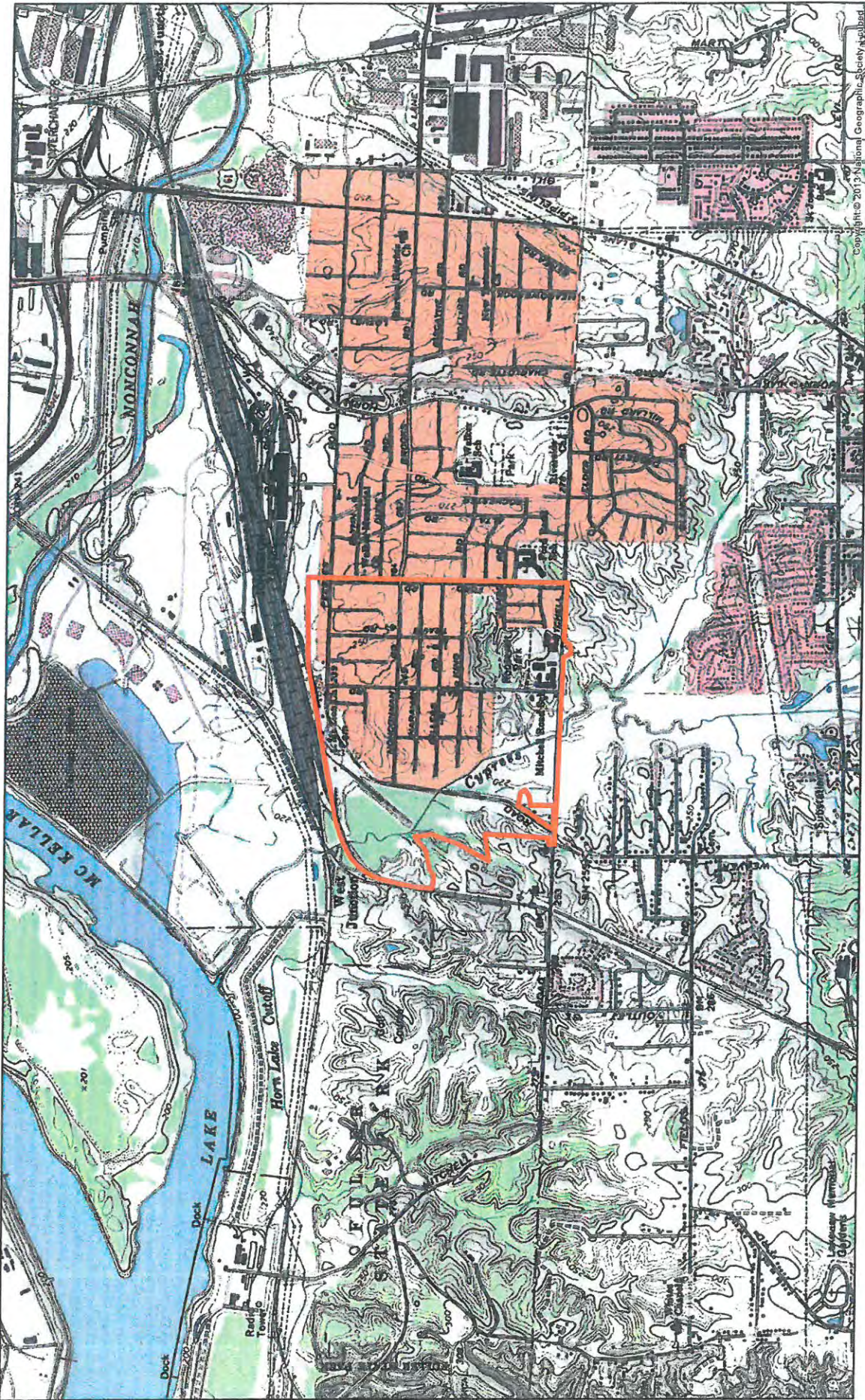
Properties identified for buyout will be redeveloped as nature and stormwater lots.



Attachment B

South Cypress Creek Quad Map With Project Limits

South Cypress Creek Restoration and Neighborhood Redevelopment Project



Southwest Memphis Quad Map
1:24000



Notes:
 1. Conclude System: IAD 193 StreetLine Tennessee RPS 1.00
 2. All data was produced under license with the Chicago Mobility
 3. Orthomosaic © First Data Solutions, 2016.

Project Limits

CCRS

Stream

Wet-Weather Conveyance

Existing Wetland

Project Location

Shelby County, TN

Client/Project

Sasaki Associates
 Cypress Creek
 Shelby County HUD

Figure No.

1

Title

CONCEPTUAL

PROJECT LIMITS

QUAPAW NATION

P.O. Box 765
Quapaw, OK 74363-0765

(918) 542-1853
FAX (918) 542-4694

November 26, 2018

Shelby County Government
Office of Resilience
125 N. Main Street
Room 443
Memphis, TN 38103

Re: South Cypress Creek Watershed and Neighborhood Redevelopment Project, Memphis, Shelby County, Tennessee

To whom it may concern,

The Quapaw Nation Historic Preservation Office has received and reviewed the information you have provided and finds that the proposed South Cypress Creek Watershed and Neighborhood Redevelopment Project, Memphis, Shelby County, Tennessee is not likely to adversely affect properties of cultural or sacred significance to the Quapaw Nation.

In accordance with the National Historic Preservation Act, (NHPA) [16 U.S.C. 470 §§ 470-470w-6] 1966, undertakings subject to the review process are referred to in S101 (d) (6) (A), which clarifies that historic properties may have religious and cultural significance to Indian tribes. Additionally, Section 106 of NHPA requires Federal agencies to consider the effects of their actions on historic properties (36 CFR Part 800) as does the National Environmental Policy Act (43 U.S.C. 4321 and 4331-35 and 40 CFR 1501.7(a) of 1969). The Quapaw Nation concurs that as a part of the scoping process the Shelby County Government fulfilled NHPA compliance by consulting with the Quapaw Nation Historic Preservation Office in regards to the proposed project referenced as South Cypress Creek Watershed and Neighborhood Redevelopment Project, Memphis, Shelby County, Tennessee.

The Quapaw Nation has vital interests in protecting its historic and ancestral cultural resources. We do not anticipate that this project will adversely impact any cultural resources or human remains protected under the NHPA, NEPA, or the Native American Graves Protection and Repatriation Act. If however, artifacts or human remains are discovered during project construction, we ask that work cease immediately and that you contact the Quapaw Nation Historic Preservation Office.

Should you have any questions or need any additional information, please feel free to contact me at the number listed below. Thank you for consulting with the Quapaw Nation on this matter.

Sincerely,



Everett Bandy
Tribal Historic Preservation Officer
Quapaw Nation
P.O. Box 765
Quapaw, OK 74363
(w) 918-238-3100

Appendix L – Noise Abatement and Control

South Cypress Creek Watershed and West Junction
Neighborhood Redevelopment

Noise (EA Level Reviews) – PARTNER

This Worksheet was designed to be used by those “Partners” (including Public Housing Authorities, consultants, contractors, and nonprofits) who assist Responsible Entities and HUD in preparing environmental reviews, but legally cannot take full responsibilities for these reviews themselves. Responsible Entities and HUD should use the RE/HUD version of the Worksheet.

| General requirements | Legislation | Regulation |
|---|--|------------------------------|
| HUD’s noise regulations protect residential properties from excessive noise exposure. HUD encourages mitigation as appropriate. | Noise Control Act of 1972 General Services Administration Federal Management Circular 75-2: “Compatible Land Uses at Federal Airfields” | Title 24 CFR 51 Subpart B |
| References | | |
| | | |

1. What activities does your project involve? Check all that apply:

- ☐ New construction for residential use

NOTE: HUD assistance to new construction projects is generally prohibited if they are located in an Unacceptable zone, and HUD discourages assistance for new construction projects in Normally Unacceptable zones. See 24 CFR 51.101(a)(3) for further details.

→ Continue to Question 2.

- ☐ Rehabilitation of an existing residential property

NOTE: For major or substantial rehabilitation in Normally Unacceptable zones, HUD encourages mitigation to reduce levels to acceptable compliance standards. For major rehabilitation in Unacceptable zones, HUD strongly encourages mitigation to reduce levels to acceptable compliance standards. See 24 CFR 51 Subpart B for further details.

→ Continue to Question 2.

- ☐ A research demonstration project which does not result in new construction or reconstruction, interstate, land sales registration, or any timely emergency assistance under disaster assistance provisions or appropriations which are provided to save lives, protect property, protect public health and safety, remove debris and wreckage, or assistance that has the effect of restoring facilities substantially as they existed prior to the disaster

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section Continue to the Worksheet Summary below.

☒ None of the above

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below.

2. Complete the Preliminary Screening to identify potential noise generators in the vicinity (1000' from a major road, 3000' from a railroad, or 15 miles from an airport).

Indicate the findings of the Preliminary Screening below:

☐ There are no noise generators found within the threshold distances above.

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide a map showing the location of the project relative to any noise generators.

☒ Noise generators were found within the threshold distances.

→ Continue to Question 3.

3. Complete the Noise Assessment Guidelines to quantify the noise exposure. Indicate the findings of the Noise Assessment **DNL Calculator**

4.

☒ Acceptable: (65 decibels or less; the ceiling may be shifted to 70 decibels in circumstances described in §24 CFR 51.105(a))

Indicate noise level here: 64.5

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide noise analysis, including noise level and data used to complete the analysis.

☐ Normally Unacceptable: (Above 65 decibels but not exceeding 75 decibels; the floor may be shifted to 70 decibels in circumstances described in 24 CFR 51.105(a))

Indicate noise level here: [Click here to enter text.](#)

If project is rehabilitation:

→ Continue to Question 4. Provide noise analysis, including noise level and data used to complete the analysis.

If project is new construction:

Is the project in a largely undeveloped area¹?

¹ A largely undeveloped area means the area within 2 miles of the project site is less than 50 percent developed with urban uses and does not have water and sewer capacity to serve the project.

☐ No

→ Continue to Question 4. Provide noise analysis, including noise level and data used to complete the analysis, and any other relevant information.

☐ Yes

→ The project requires completion of an Environmental Impact Statement (EIS) pursuant to 51.104(b)(1)(i). Work with the Re/HUD to elevate this review to an EIS-level review.

☐ Unacceptable: (Above 75 decibels)

Indicate noise level here: [Click here to enter text.](#)

If project is rehabilitation:

HUD strongly encourages conversion of noise-exposed sites to land uses compatible with high noise levels. Consider converting this property to a non-residential use compatible with high noise levels.

→ Continue to Question 4. Provide noise analysis, including noise level and data used to complete the analysis, and any other relevant information.

If project is new construction:

The project requires completion of an Environmental Impact Statement (EIS) pursuant to 51.104(b)(1)(i). You may either complete an EIS or provide a waiver signed by the appropriate authority. Indicate your choice:

☐ Convert to an EIS

→ Provide noise analysis, including noise level and data used to complete the analysis.

Continue to Question 4.

☐ Provide waiver

→ Work with the RE/HUD to prepare an Environmental Impact Statement waiver from the Certifying Officer or the Assistant Secretary for Community Planning and Development per 24 CFR 51.104(b)(2) and noise analysis, including noise level and data used to complete the analysis. Continue to Question 4.

5. HUD strongly encourages mitigation be used to eliminate adverse noise impacts. Work with the RE/HUD to develop mitigation measures that must be implemented to mitigate for the impact or effect, including the timeline for implementation. This information will be automatically included in the Mitigation summary for the environmental review.

☐ Mitigation as follows will be implemented:
[Click here to enter text.](#)

→ *Provide drawings, specifications, and other materials as needed to describe the project's noise mitigation measures. Continue to the Worksheet Summary.*

☒ No mitigation is necessary.

Explain why mitigation will not be made here:

The noise level is expected to be below the threshold level of 65 decibels. None of the activities proposed by the project will change the ambient noise level, nor the existing residential makeup of the project area.

→ *Continue to the Worksheet Summary.*

Worksheet Summary

Compliance Determination

Provide a clear description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your region

The project consists of flood plain management and removing inhabitants out of flood prone SFHA. No permanent noise generations only minor construction noises that will be mitigated to daylight hours.

General Project distances: (NEPA Assist)

<5 miles to MEM

<10 Mile to west Memphis

<10 Miles to DeWitt Spain

15 miles to Millington

Nearest Major Roads with AADT info: (<https://www.tdot.tn.gov/APPLICATIONS/traffichistory>)

Ford Road

Mitchell Road

Rochester Road (School Traffic)

Rail Road Distances: (NEPA Assist)

BNSF Intermodal Yard <1000 ft from Peebles Road

X-ing at Fields Road: >1/4 mile and >3000ft away from West Junction Neighborhood.

Are formal compliance steps or mitigation required?

☐ Yes

☒ No

[Home \(/\)](#) > [Programs \(/programs/\)](#) > [Environmental Review \(/programs/environmental-review/\)](#) > DNL Calculator

DNL Calculator

WARNING: HUD recommends the use of Microsoft Internet Explorer for performing noise calculations. The HUD Noise Calculator has an error when using Google Chrome unless the cache is cleared before each use of the calculator. HUD is aware of the problem and working to fix it in the programming of the calculator.

The Day/Night Noise Level Calculator is an electronic assessment tool that calculates the Day/Night Noise Level (DNL) from roadway and railway traffic. For more information on using the DNL calculator, view the [Day/Night Noise Level Calculator Electronic Assessment Tool Overview \(/programs/environmental-review/daynight-noise-level-electronic-assessment-tool/\)](#).

Guidelines

- To display the Road and/or Rail DNL calculator(s), click on the "Add Road Source" and/or "Add Rail Source" button(s) below.
- All Road and Rail input values must be positive non-decimal numbers.
- All Road and/or Rail DNL value(s) must be calculated separately before calculating the Site DNL.
- All checkboxes that apply must be checked for vehicles and trains in the tables' headers.
- **Note #1:** Tooltips, containing field specific information, have been added in this tool and may be accessed by hovering over all the respective data fields (site identification, roadway and railway assessment, DNL calculation results, roadway and railway input variables) with the mouse.
- **Note #2:** DNL Calculator assumes roadway data is always entered.

DNL Calculator

| | |
|--------------------|---------------------|
| Site ID | South Cypress Creek |
| Record Date | 07/19/19 |
| User's Name | Steve Hill |

| | |
|--------------------------------------|----------------------------------|
| Railroad #1 Track Identifier: | Canadian Northern Switching Yard |
|--------------------------------------|----------------------------------|

Rail # 1

| | | |
|--------------------------------|--|---|
| Train Type | Electric <input type="checkbox"/> | Diesel <input checked="" type="checkbox"/> |
| Effective Distance | | 1500 |
| Average Train Speed | | 10 |
| Engines per Train | | 2 |
| Railway cars per Train | | 20 |
| Average Train Operations (ATO) | | 30 |
| Night Fraction of ATO | | 5 |
| Railway whistles or horns? | Yes: <input type="checkbox"/> No: <input type="checkbox"/> | Yes: <input checked="" type="checkbox"/> No: <input type="checkbox"/> |
| Bolted Tracks? | Yes: <input type="checkbox"/> No: <input type="checkbox"/> | Yes: <input checked="" type="checkbox"/> No: <input type="checkbox"/> |
| Train DNL | | 64.0538 |
| Calculate Rail #1 DNL | 64.0538 | Reset |

[Add Road Source](#) | [Add Rail Source](#)

| | |
|--|---|
| Airport Noise Level | <input type="text" value="55"/> |
| Loud Impulse Sounds? | <input type="radio"/> Yes <input checked="" type="radio"/> No |
| Combined DNL for all Road and Rail sources | 64.0538 |
| Combined DNL including Airport | 64.5484 |
| Site DNL with Loud Impulse Sound | <input type="text"/> |
| <input type="button" value="Calculate"/> | |

Mitigation Options

If your site DNL is in Excess of 65 decibels, your options are:

- **No Action Alternative:** Cancel the project at this location
- **Other Reasonable Alternatives:** Choose an alternate site
- **Mitigation**
 - **Contact your Field or Regional Environmental Officer** (</programs/environmental-review/hud-environmental-staff-contacts/>)
 - Increase mitigation in the building walls (only effective if no outdoor, noise sensitive areas)
 - Reconfigure the site plan to increase the distance between the noise source and noise-sensitive uses
 - Incorporate natural or man-made barriers. See *The Noise Guidebook* (</resource/313/hud-noise-guidebook/>)
 - Construct noise barrier. See the **Barrier Performance Module** (</programs/environmental-review/bpm-calculator/>)

Day/Night Noise Level Assessment Tool User Guide (/resource/3822/day-night-noise-level-assessment-tool-user-guide/)

Day/Night Noise Level Assessment Tool Flowcharts (/resource/3823/day-night-noise-level-assessment-tool-flowcharts/)

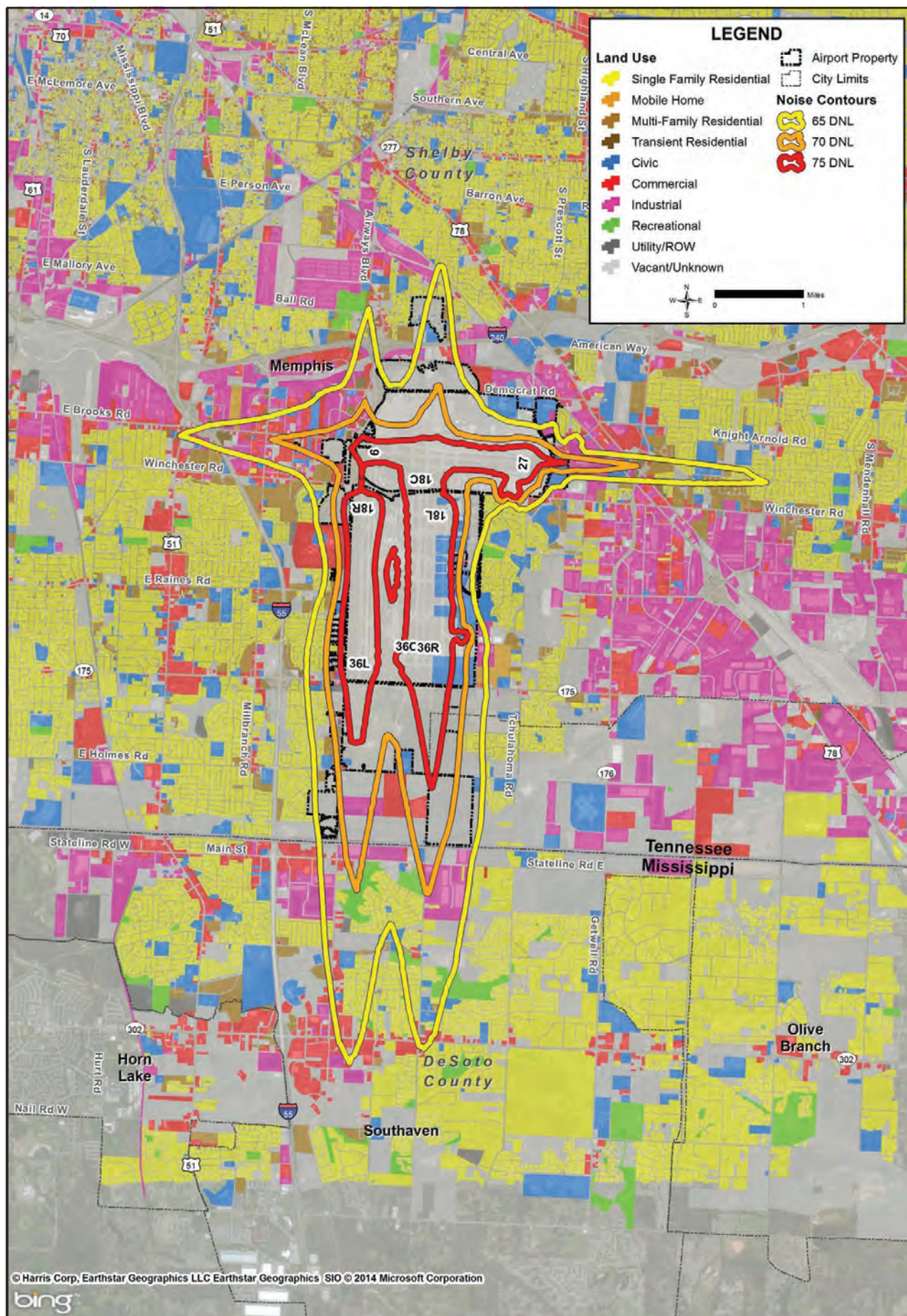


FIGURE
ES.4

2013 EXISTING CONDITION NOISE EXPOSURE MAP

Appendix M – Sole Source Aquifers

South Cypress Creek Watershed and West Junction
Neighborhood Redevelopment



U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
WASHINGTON, DC 20410-1000

This Worksheet was designed to be used by those “Partners” (including Public Housing Authorities, consultants, contractors, and nonprofits) who assist Responsible Entities and HUD in preparing environmental reviews, but legally cannot take full responsibilities for these reviews themselves. Responsible Entities and HUD should use the RE/HUD version of the Worksheet.

Sole Source Aquifers (CEST and EA) - PARTNER

hudexchange.info/environmental-review/sole-source-aquifers

1. Is the project located on a sole source aquifer (SSA)¹?

☒ No → *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide documentation used to make your determination, such as a map of your project or jurisdiction in relation to the nearest SSA.*

☐ Yes → *Continue to Question 2.*

2. Does the project consist solely of acquisition, leasing, or rehabilitation of an existing building(s)?

☐ Yes → *The review is in compliance with this section. Continue to the Worksheet Summary below.*

☐ No → *Continue to Question 3.*

3. Does your region have a memorandum of understanding (MOU) or other working agreement with EPA for HUD projects impacting a sole source aquifer?

Contact your Field or Regional Environmental Officer or visit the HUD webpage at the link above to determine if an MOU or agreement exists in your area.

☐ Yes → *Continue to Question 4.*

☐ No → *Continue to Question 5.*

4. Does your MOU or working agreement exclude your project from further review?

☐ Yes → *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide documentation used to make your determination and document where your project fits within the MOU or agreement.*

☐ No → *Continue to Question 5.*

5. Will the proposed project contaminate the aquifer and create a significant hazard to public health?

Consult with your Regional EPA Office. Your consultation request should include detailed information about your proposed project and its relationship to the aquifer and associated streamflow source area. EPA will also want to know about water, storm water and waste water at the proposed project. Follow

¹ A sole source aquifer is defined as an aquifer that supplies at least 50 percent of the drinking water consumed in the area overlying the aquifer. This includes streamflow source areas, which are upstream areas of losing streams that flow into the recharge area.

your MOU or working agreement or contact your Regional EPA office for specific information you may need to provide. EPA may request additional information if impacts to the aquifer are questionable after this information is submitted for review.

- ☐ No → *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide your correspondence with the EPA and all documents used to make your determination.*
- ☐ Yes → *The RE/HUD will work with EPA to develop mitigation measures. If mitigation measures are approved, attach correspondence with EPA and include the mitigation measures in your environmental review documents and project contracts. If EPA determines that the project continues to pose a significant risk to the aquifer, federal financial assistance must be denied. Continue to Question 6.*

Worksheet Summary

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

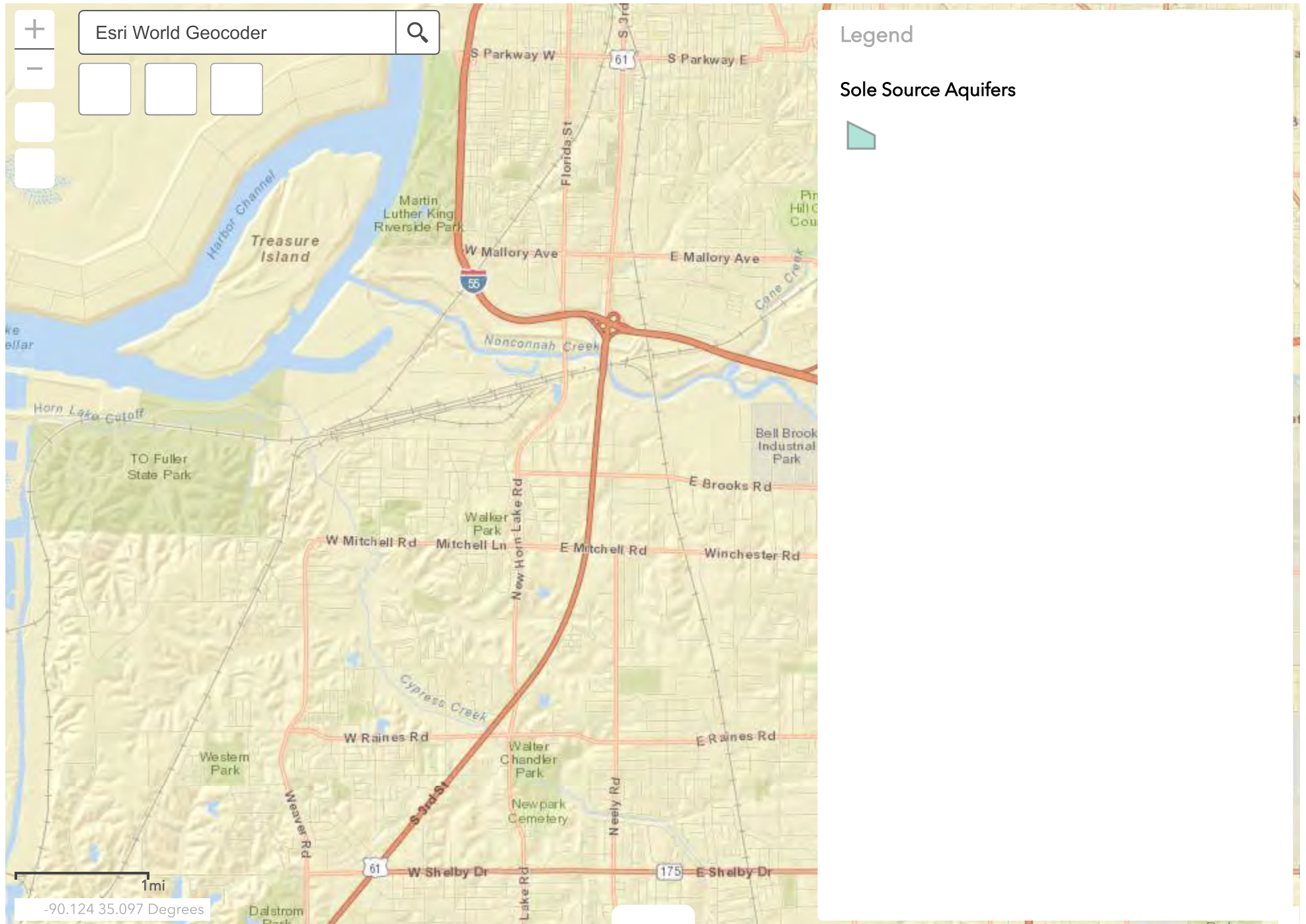
- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

Include all documentation supporting your findings in your submission to HUD.

The EPA's Sole Source Aquifer(SSA) Map was used to verify there are no SSA's within the proposed project area or within close proximity.



Sole Source Aquifers



Appendix N – Wetlands Protection

South Cypress Creek Watershed and West Junction Neighborhood Redevelopment



U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
WASHINGTON, DC 20410-1000

This Worksheet was designed to be used by those “Partners” (including Public Housing Authorities, consultants, contractors, and nonprofits) who assist Responsible Entities and HUD in preparing environmental reviews, but legally cannot take full responsibilities for these reviews themselves. Responsible Entities and HUD should use the RE/HUD version of the Worksheet.

Wetlands (CEST and EA) – Partner

hudexchange.info/environmental-review/wetlands-protection

1. Does this project involve new construction as defined in Executive Order 11990, expansion of a building’s footprint, or ground disturbance?

The term "new construction" includes draining, dredging, channelizing, filling, diking, impounding, and related activities and construction of any any structures or facilities.

☐ No → *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below.*

☒ Yes → *Continue to Question 2.*

2. Will the new construction or other ground disturbance impact a wetland as defined in E.O. 11990?

☐ No → *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide a map or any other relevant documentation to explain your determination.*

☒ Yes → *Work with HUD or the RE to assist with the 8-Step Process.* *Continue to Question 3.*

3. Does Section 55.12 state that the 8-Step Process is not required?

☒ No, the 8-Step Process applies.

This project will require mitigation and may require elevating structure or structures. See the link to the HUD Exchange above for information on HUD’s elevation requirements.

→ *Work with the RE/HUD to assist with the 8-Step Process. Continue to Worksheet Summary.*

☐ 5-Step Process is applicable per 55.12(a).

Provide the applicable citation at 24 CFR 55.12(a) here.

[Click here to enter text.](#)

→ *Work with the RE/HUD to assist with the 5-Step Process. This project may require mitigation or alternations. Continue to Worksheet Summary.*

☐ 8-Step Process is inapplicable per 55.12(b).

Provide the applicable citation at 24 CFR 55.12(b) here.

[Click here to enter text.](#)

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to Worksheet Summary.

☐ 8-Step Process is inapplicable per 55.12(c).

Provide the applicable citation at 24 CFR 55.12(c) here.

[Click here to enter text.](#)

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to Worksheet Summary.

Worksheet Summary

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

Include all documentation supporting your findings in your submission to HUD.

USACE consulted PJD received 8.29.18 verifying 58.53 ac of wetlands, and 11 streams (approximately 4.7 miles)



DEPARTMENT OF THE ARMY
MEMPHIS DISTRICT CORPS OF ENGINEERS
167 NORTH MAIN STREET B-202
MEMPHIS, TENNESSEE 38103-1894

August 29, 2018

Ms. Jennifer Morrison
Brophy-Heineke & Associates, Inc.
2978 Shelby Street
Bartlett, Tennessee 38134-4538

Dear Ms. Morrison:

This is in response to your recent correspondence, dated August 16, 2018, in which you requested concurrence with your delineation of an approximate 869-acre parcel of land located near Cypress Creek in Southwest Memphis, Shelby County, Tennessee, as shown on the enclosed map. Based on the information submitted and a site visit performed by my staff, we concur with your delineation. Attached is the preliminary jurisdictional determination (PJD) verifying the presence of 58.53 acres of wetlands and 11 stream channels totaling 4.7 miles which may be considered waters of the United States. If you wish to provide additional information, an approved jurisdictional determination may be requested.

The Memphis District Regulatory Branch is committed to providing quality and timely service to our customers. In an effort to improve customer service, we invite you to complete a Customer Service Survey found on our web site at http://corpsmapu.usace.army.mil/cm_apex/f?p=regulatory_survey. Your comments, positive or negative, will not affect any current or future dealing with the Corps of Engineers.

If you have questions, please contact Ben Pitcock at (901) 544-3468 and refer to File No. MVM-2018-300.

Sincerely,

A handwritten signature in black ink, appearing to read "Roger S. Allan for", is written over a horizontal line.

Roger S. Allan
Supervisor
Regulatory Branch

Enclosures

Resiliency Study - Cypress Creek Stream Location Map



*The locations of streams and wetlands were approximated based on aerial photo interpretation and field observations.



Appendix 2 - PRELIMINARY JURISDICTIONAL DETERMINATION (PJD) FORM

BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR PJD:

B. NAME AND ADDRESS OF PERSON REQUESTING PJD: J. Morrison, 2978 Shelby Street, Bartlett TN 38134

C. DISTRICT OFFICE, FILE NAME, AND NUMBER: Memphis District

D. PROJECT LOCATION(S) AND BACKGROUND INFORMATION:

(USE THE TABLE BELOW TO DOCUMENT MULTIPLE AQUATIC RESOURCES AND/OR AQUATIC RESOURCES AT DIFFERENT SITES)

State: TN

County/parish/borough: Shelby

City: Memphis

Center coordinates of site (lat/long in degree decimal format):

Lat.: 35.05428

Long.: -90.08879

Universal Transverse Mercator:

Name of nearest waterbody: Cypress Creek

E. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):

☐ Office (Desk) Determination. Date:

☒ Field Determination. Date(s): December 11, 2017

TABLE OF AQUATIC RESOURCES IN REVIEW AREA WHICH "MAY BE" SUBJECT TO REGULATORY JURISDICTION.

| Site number | Latitude (decimal degrees) | Longitude (decimal degrees) | Estimated amount of aquatic resource in review area (acreage and linear feet, if applicable) | Type of aquatic resource (i.e., wetland vs. non-wetland waters) | Geographic authority to which the aquatic resource "may be" subject (i.e., Section 404 or Section 10/404) |
|-------------|----------------------------|-----------------------------|--|---|---|
| 1 | 35.04484 | -90.08777 | 0.25 acre | Wetland 1 | Section 404 |
| 2 | 35.04392 | -90.08886 | 0.62 acre | Wetland 2 | Section 404 |
| 3 | 35.05340 | -90.08942 | 15.74 acres | Wetland 3 | Section 404 |
| 4 | 35.05024 | -90.08235 | 0.59 acre | Wetland 4 | Section 404 |
| 5 | 35.05283 | -90.08526 | 24.08 acres | Wetland 5 | Section 404 |
| 6 | 35.04701 | -90.08779 | 0.39 acre | Wetland 6 | Section 404 |

RGL 16-01: TABLE OF AQUATIC RESOURCES IN REVIEW AREA WHICH "MAY BE" SUBJECT TO REGULATORY JURISDICTION

| Site number | Latitude (decimal degrees) | Longitude (decimal degrees) | Estimated amount of aquatic resource in review area (acreage and linear feet, if applicable) | Type of aquatic resource (i.e., wetland vs. non-wetland waters) | Geographic authority to which the aquatic resource "may be" subject (i.e., Section 404 or Section 10/404) |
|--------------------|-----------------------------------|------------------------------------|---|--|--|
| 7 | 35.06116 | -90.09452 | 5.0 acres | Wetland 7 | Section 404 |
| 8 | 35.06485 | -90.09724 | 0.88 acre | Wetland 8 | Section 404 |
| 9 | 35.0594 | -90.09299 | 0.8 acre | Wetland 9 | Section 404 |
| 10 | 35.05838 | -90.08757 | 0.5 acre | Wetland 10 | Section 404 |
| 11 | 35.05856 | -90.08678 | 2.12 acres | Wetland 11 | Section 404 |
| 12 | 35.06586 | -90.09457 | 3.48 acres | Wetland 12 | Section 404 |
| 13 | 35.064202 | -90.09268 | 4.08 acres | Wetland 13 | Section 404 |
| 14 | 35.04268 | -90.0649 | 11917 linear feet | Cypress Creek | Section 404 |
| 15 | 35.04255 | -90.0881 | 2166 linear feet | Stream 2 | Section 404 |
| 16 | 35.04407 | -90.08834 | 389 linear feet | Stream 3 | Section 404 |
| 17 | 35.04738 | -90.08985 | 2563 linear feet | Stream 4 | Section 404 |
| 18 | 35.05073 | -90.08365 | 2456 linear feet | Stream 5 | Section 404 |
| 19 | 35.0533 | -90.07933 | 1539 linear feet | Stream 6 | Section 404 |
| 20 | 35.05573 | -90.08042 | 968 linear feet | Stream 7 | Section 404 |
| 21 | 35.0547 | -90.08688 | 265 linear feet | Stream 8 | Section 404 |
| 22 | 35.05537 | -90.08594 | 1182 linear feet | Stream 9 | Section 404 |
| 23 | 35.05788 | -90.08725 | 1009 linear feet | Stream 10 | Section 404 |
| 24 | 35.06227 | -90.09502 | 270 linear feet | Stream 11 | Section 404 |

- 1) The Corps of Engineers believes that there may be jurisdictional aquatic resources in the review area, and the requestor of this PJD is hereby advised of his or her option to request and obtain an approved JD (AJD) for that review area based on an informed decision after having discussed the various types of JDs and their characteristics and circumstances when they may be appropriate.
- 2) In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring "pre-construction notification" (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an AJD for the activity, the permit applicant is hereby made aware that: (1) the permit applicant has elected to seek a permit authorization based on a PJD, which does not make an official determination of jurisdictional aquatic resources; (2) the applicant has the option to request an AJD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an AJD could possibly result in less compensatory mitigation being required or different special conditions; (3) the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization; (4) the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the Corps has determined to be necessary; (5) undertaking any activity in reliance upon the subject permit authorization without requesting an AJD constitutes the applicant's acceptance of the use of the PJD; (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of Corps permit authorization based on a PJD constitutes agreement that all aquatic resources in the review area affected in any way by that activity will be treated as jurisdictional, and waives any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; and (7) whether the applicant elects to use either an AJD or a PJD, the JD will be processed as soon as practicable. Further, an AJD, a proffered individual permit (and all terms and conditions contained therein), or individual permit denial can be administratively appealed pursuant to 33 C.F.R. Part 331. If, during an administrative appeal, it becomes appropriate to make an official determination whether geographic jurisdiction exists over aquatic resources in the review area, or to provide an official delineation of jurisdictional aquatic resources in the review area, the Corps will provide an AJD to accomplish that result, as soon as is practicable. This PJD finds that there "may be" waters of the U.S. and/or that there "may be" navigable waters of the U.S. on the subject review area, and identifies all aquatic features in the review area that could be affected by the proposed activity, based on the following information:

SUPPORTING DATA. Data reviewed for PJD (check all that apply)

Checked items should be included in subject file. Appropriately reference sources below where indicated for all checked items:

- ☒ Maps, plans, plots or plat submitted by or on behalf of the PJD requestor:
Map: Site Location Map (topo quad), Features Map (aerial image).
- ☒ Data sheets prepared/submitted by or on behalf of the PJD requestor.
☐ Office concurs with data sheets/delineation report.
☐ Office does not concur with data sheets/delineation report. Rationale: _____.
- ☐ Data sheets prepared by the Corps: _____.
- ☐ Corps navigable waters' study: _____.
- ☐ U.S. Geological Survey Hydrologic Atlas: _____.
☐ USGS NHD data.
☐ USGS 8 and 12 digit HUC maps.
- ☒ U.S. Geological Survey map(s). Cite scale & quad name: 1:24,000 Southwest Memphis, TN.
- ☒ Natural Resources Conservation Service Soil Survey. Citation: Web Soil Survey 2017.
- ☒ National wetlands inventory map(s). Cite name: FWS.gov Wetland Mapper.
- ☐ State/local wetland inventory map(s): _____.
- ☐ FEMA/FIRM maps: _____.
- ☐ 100-year Floodplain Elevation is: _____.(National Geodetic Vertical Datum of 1929)
- ☐ Photographs: ☒ Aerial (Name & Date): ESRI aerial image.
or ☒ Other (Name & Date): Ground photos: September - November 2017.
- ☐ Previous determination(s). File no. and date of response letter: _____.
- ☐ Other information (please specify): _____.

IMPORTANT NOTE: The information recorded on this form has not necessarily been verified by the Corps and should not be relied upon for later jurisdictional determinations.

Benjamin P. [Signature] 8/27/18
Signature and date of
Regulatory staff member
completing PJD

Jennifer Morrison 8/16/18
Signature and date of
person requesting PJD
(REQUIRED, unless obtaining
the signature is impracticable)¹

¹ Districts may establish timeframes for requestor to return signed PJD forms. If the requestor does not respond within the established time frame, the district may presume concurrence and no additional follow up is necessary prior to finalizing an action.



STATE OF TENNESSEE
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF WATER RESOURCES

Memphis Environmental Field Office
8383 Wolf Lake Drive
Bartlett, TN 38133
Phone 901-371-3000 Statewide 1-888-891-8332 Fax 901-371-3170

April 17, 2018

Mr. Tom Needham
Shelby County Public Works
160 North Main St., #801
Memphis, TN 38103

Re: Hydrologic Determination #QHP1805.004
 Cypress Creek Resiliency Study
 Shelby County, TN

Dear Mr. Neeham,

The Division of Water Resources has reviewed the documentation prepared by Ms. Jennifer Morrison (Qualified Hydrologic Professional #1116-TN14) with Brophy-Heineke & Associates, Inc. seeking concurrence with the report that was submitted in support of the Hydrologic Determinations conducted for the above referenced property in Shelby County, TN.

We are in concurrence with the following submitted assertion:

The channel identified as Wet Weather Conveyance 1 (from coordinates 35.05397 Lat., -90.07828 Long. to 35.05327 Lat., -90.07907 Long.) is a wet weather conveyance.

The channel identified as Wet Weather Conveyance 2 (from coordinates 35.05322 Lat., -90.09018 Long. to 35.05291 Lat., -90.09069 Long.) is a wet weather conveyance.

The channel identified as Wet Weather Conveyance 3 (from coordinates 35.05723 Lat., -90.09551 Long. to 35.06193 Lat., -90.09349 Long.) is a wet weather conveyance.

The channel identified as Wet Weather Conveyance 4 (from coordinates 35.05965 Lat., -90.09643 Long. to 35.06211 Lat., -90.09506 Long.) is a wet weather conveyance.

The channel identified as Wet Weather Conveyance 5 (from coordinates 35.06219 Lat., -90.09848 Long. to 35.06344 Lat., -90.09549 Long.) is a wet weather conveyance.

The channel identified as Wet Weather Conveyance 6 (from coordinates 35.05572 Lat., -90.08055 Long. to 35.05455 Lat., -90.08178 Long.) is a wet weather conveyance.

In addition to the above listed wet weather conveyances, several streams and wetlands were identified within the study area.

Please be informed that alterations to wet weather conveyances are authorized under the General Permit for Alteration of Wet Weather Conveyances (copy enclosed) provided you can meet the Terms and Conditions of the permit. Alterations to streams and wetlands require authorization under an appropriate Aquatic Resource Alteration Permit (ARAP). You can download the ARAP application form at the following web address: http://environment-online.state.tn.us/etdec/DownloadFile.aspx?row_id=CN-1091

If you have any questions, please feel free to contact me at (901) 371-3019 or at Lew.Hoffman@tn.gov.

Thank you,



Lew E. Hoffman
Environmental Consultant
Division of Water Resources
Memphis Environmental Field Office

Copy: Jennifer Morrison, QHP, Brophy-Heineke & Associates, Inc.
file



BROPHY – HEINEKE & ASSOCIATES, INC.

March 30, 2018

Mr. Lew Hoffman (Lew.Hoffman@tn.gov)
Tennessee Department of Environment and Conservation
Division of Water Resources
Memphis Environmental Field Office
8383 Wolf Lake Drive
Bartlett, TN 38133

**Re: Hydrologic Determinations
Cypress Creek Resiliency Study
Memphis, Shelby County, Tennessee**

Dear Mr. Hoffman:

This hydrologic determination submittal is for the Cypress Creek Resiliency Study. This study encompasses 869 acres adjacent to Cypress Creek in Memphis, Shelby County, Tennessee. For further reference, a site location map based upon the 1:24,000 Southwest Memphis, Tennessee USGS topographic quadrangle is enclosed.

Within the review area, six channels meeting the definition of a wet weather conveyance were identified. For the purpose of these determinations, geomorphological, biological, and geological aspects of the channels were taken into consideration. The hydrologic determinations were conducted in accordance with Version 1.4 of the Tennessee Department of Environment and Conservation's *Guidance for Making Hydrologic Determinations* (May 2011). All information submitted in support of this determination is true, accurate and complete. **Please accept this submittal as qualifying for the treatment provided by Tennessee Code Annotated, Section 69-3-108.** Barring significant question, section 5 of the code presumes the findings of these wet weather conveyance determinations to be correct.

BACKGROUND INFORMATION

Channels located in the review area drain to Cypress Creek (HUC: 080102110201), located within the Nonconnah Creek watershed (by way of McKellar Lake). Soils in the locations of the potential wet weather conveyances are mapped by the Natural Resources Conservation Service (NRCS) as Falaya silt loam (Fm), Memphis silt loam (MeF3, MeD2), and Graded Land (Gr). In Shelby County, Falaya silt loam soils are considered partially hydric due to the possibility of Waverly inclusions.

(901) 373-3289

2978 Shelby Street • Bartlett, Tennessee 38134-4538

WETLAND AND ENVIRONMENTAL CONSULTANTS

WEATHER CONDITIONS

Determinations performed for this submittal occurred during the months of October and November of 2017 and January of 2018. Based upon the amounts of rainfall received during the previous months, it was determined that these wet weather conveyance determinations were performed during normal weather conditions. For your reference, calculations used to determine the weather conditions, using page 12 of the State of Tennessee's hydrological determination guidance, are included.

METHODS

Each of the channels was assessed using version 1.4 of the hydrologic determination field data sheet. The channels were observed to the maximum extent practicable prior to the compilation of data. Photographs documenting the appearance of the channels are provided in the attached photographic documentation.

CONTACT INFORMATION

Water resources will be altered as necessary for flood control. The party proposing alterations to the site is:

Shelby County Public Works
Attention: Tom Needham
160 N. Main Street #801
Memphis, Tennessee 38103
(901) 545-4266

The current property owners in the locations of the six wet weather conveyances are as follows:

| <u>Conveyance</u> | <u>Owner</u> | <u>Address</u> |
|-------------------|-----------------------------|---|
| 1 | Southern Housing Company | 20 Allen Avenue St. Louis, Missouri 63119 |
| 2 | General Habitat Corporation | 3241 Steele Street Memphis, Tennessee 38127 |
| 3 | Margaret Jones | 44 2 nd Street Memphis, Tennessee 38103 |
| 4 | Rochell Fisher | 810 20 th Street Santa Monica, California 90403 |
| 5 | William Jones | 44 2 nd Street Memphis, Tennessee 38103 |
| 6 | Southern Housing Company | 20 Allen Avenue St. Louis, Missouri 63119 |

FINDINGS

Wet Weather Conveyance 1 is located south of Mitchell Road at the western terminus of Elder Road. The upper portion of the channel is small and appears to be a flashy system which receives runoff from the adjacent neighborhood. Photos 1 and 2 of the photographic documentation are representative of the appearance of this section of the channel which received a Secondary Field Indicator Evaluation score of 17.0. The channel increases in size and transitions to a stream about 300 linear feet down-gradient of Elder Road. As shown in Photos 3 and 4, the brightline point was placed in the location of a headcut at coordinates of N35.05327° / W90.07907°.

Wet Weather Conveyance 2 is located east of Weaver Road and south of Nora Road. The channel flows south from a pipe near the terminus of Calvin Road (Photo 5). The channel is small and poorly defined in this location (Photo 6). Debris piles were observed on the up-gradient side of obstructions within the channel (Photo 7); however, overall geomorphological, biological, and hydrological indicators were weak. Near coordinates of N35.05291° / W90.09016°, the channel fans out into Wetland 3. This channel received a Secondary Field Indicator Evaluation score of 14.0.

Wet Weather Conveyance 3 is shown on the topographic map as a first order tributary originating in the northwest quadrant of the intersection of Weaver Road and Mitchell Road. However, for the most part, a channel is not present in this location. The upper portion of the channel is poorly defined as shown in Photo 10. No defined channel is present through Wetland 7 (Photo 11). This channel received a Secondary Field Indicator Evaluation score of 12.5.

Wet Weather Conveyance 4 is located west of Weaver Road and north of Mitchell Road. Although the topographic map shows this channel beginning further south, the channel actually originates north of Wetland 7, as shown in Photo 12. From there the channel becomes larger. Photos 13 and 14 are representative of this section of the channel. This section of channel received a Secondary Field Indicator Evaluation score of 14.0. The channel increases in size and then transitions to a stream. The brightline point was placed in the location of a headcut and groundwater seep at coordinates of N35.06211° / W90.09506° (Photo 15).

Wet Weather Conveyance 5 is located within the northwest corner of the project area. According to StreamStats, this channel has a drainage area ranging from 32-51 acres. The channel becomes deeply incised within its down-gradient end, but does not appear to regularly convey flowing water. A large amount of leaves has accumulated within the channel base. This channel appears to be a large gully feature which received a Secondary Field Indicator Evaluation score of 17.0. Photos 16-19 are representative of the appearance of the channel.

Wet Weather Conveyance 6 is located southeast of the intersection of Mitchell Road and Ford Road. The channel originates from a pipe located beneath Mitchell Road. A large scour hole is present down-gradient of the pipe discharge point (Photo 20). Within

the upper portion of the reach, the channel has a defined bed and bank (Photo 21). However, the channel then fans out into a shallow, braided feature (Photo 22). Overall, this section of the channel appears to be a flashy system. Roots were growing across the channel in multiple locations and debris piles were common. This section of channel received a Secondary Field Indicator Evaluation score of 18.5. Down-gradient of the braiding, at coordinates of N35.05455° / W90.08178°, is a large headcut at which point the channel transitions to a stream (Photo 23). Flowing water was present at the base of the headcut (Photo 24).

Additional documentation regarding the wet weather conveyance determinations is provided on the enclosed Hydrologic Determination Field Data Sheets.

CONCLUSION

As defined by Tennessee Code Annotated, wet weather conveyances are watercourses:

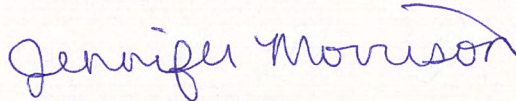
- That flow only in direct response to precipitation runoff in their immediate locality;
- Whose channels are at all times above the groundwater table;
- That are not suitable for drinking water supplies; and
- In which hydrological and biological analyses indicate that, under normal weather conditions, due to naturally occurring ephemeral or low flow there is not sufficient water to support fish, or multiple populations of obligate lotic aquatic organisms whose life cycle includes an aquatic phase of at least two months.

Based on current observable conditions, the channels described above meet the requirements of the wet weather conveyance definition. In support of these determinations, the following items are enclosed:

- Location Maps: Topographic Location Map and Photo Location Map;
- Photographic Documentation;
- Channel Information for each of the six wet-weather conveyances, including Hydrologic Determination Field Data Sheets, StreamStats Report, and USDA soil survey; and
- Calculation of Normal Weather Conditions for October and November.

Please contact me at (901) 373-3289, or via email at jlmorrison@bellsouth.net, should you have any questions regarding this report. Thank you very much.

Sincerely,



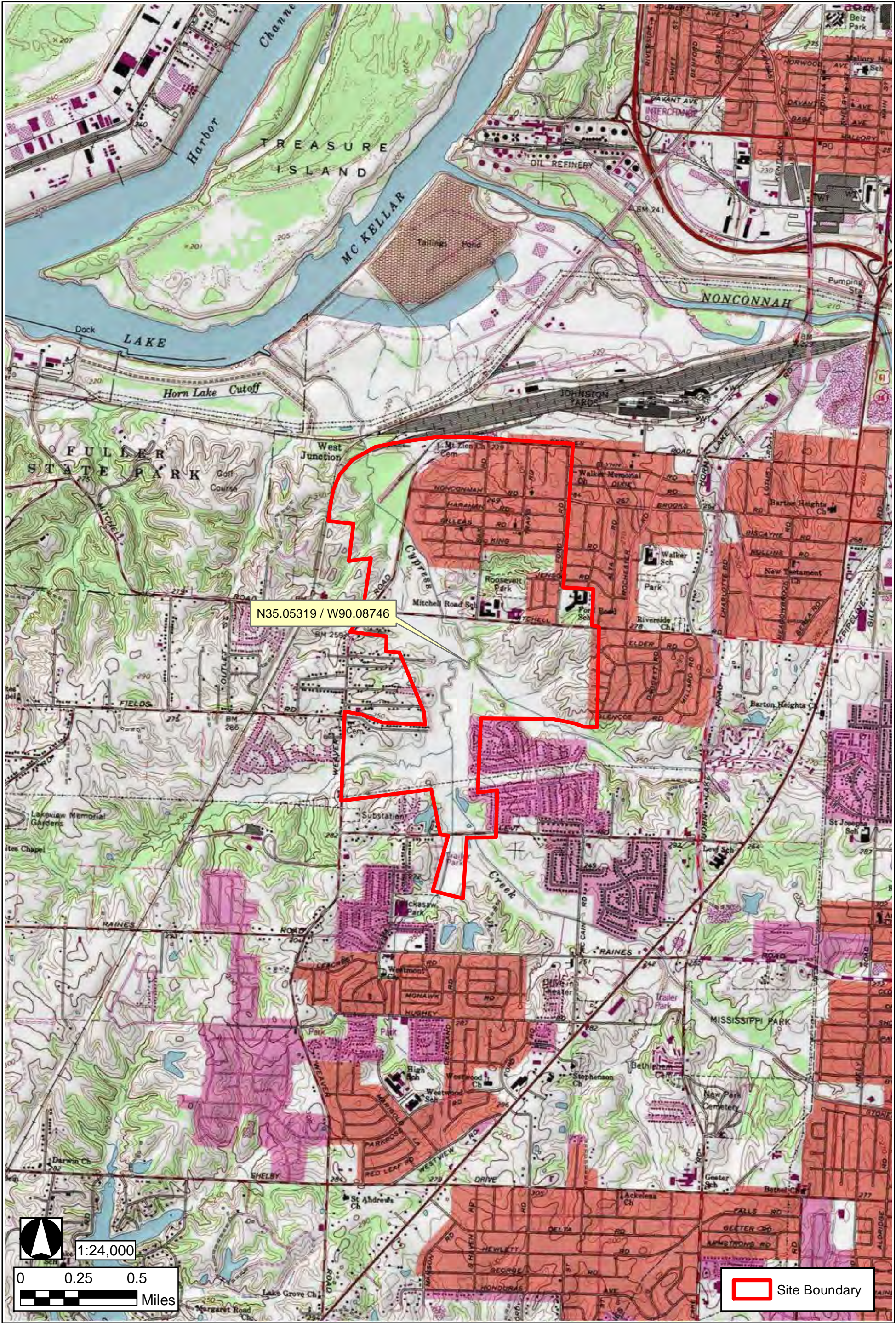
Jennifer Morrison
Qualified Hydrologic Professional
Certification Number 1116-TN14
Brophy-Heineke & Associates, Inc.

cc: Ms. Nisha Powers, Powers Hill Design (npowers@phdmemphis.com)
Mr. Steven Hill, Powers Hill Design (shill@phdmemphis.com)

LOCATION MAPS

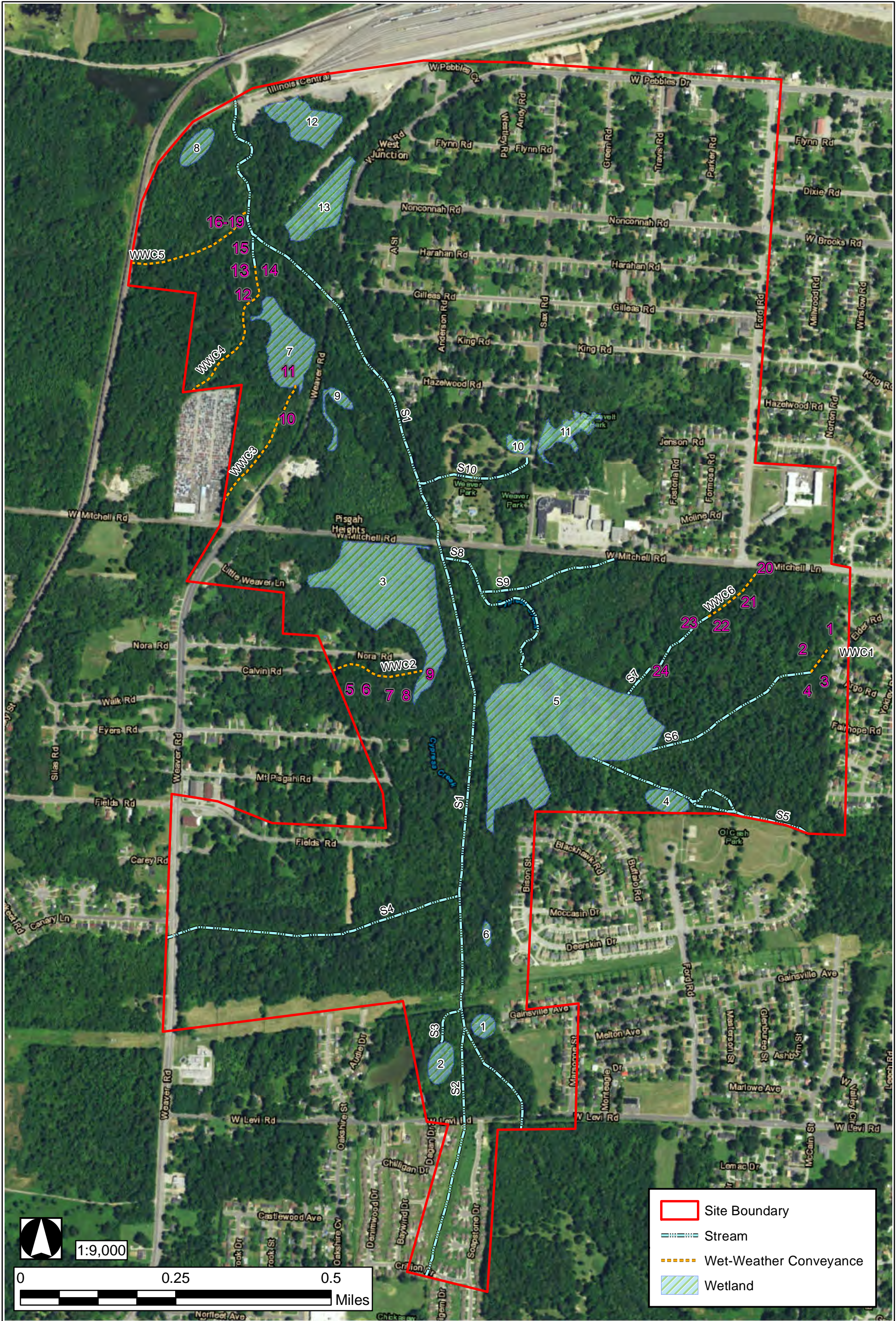
Topographic Location Map
Photo Location Aerial Map

Resiliency Study - Cypress Creek
Hydrologic Determination
Topographic Location Map



Map based upon the 1:24,000 Southwest Memphis USGS Topographic Quadrangle

Resiliency Study - Cypress Creek
Hydrologic Determination
Features & Photo Location Map



*The location of streams, wet-weather conveyances, and wetlands is approximate.
*The location of watercourses is based on aerial photo interpretation and select field observations.

PHOTOGRAPHIC DOCUMENTATION

PHOTOGRAPHIC DOCUMENTATION – Hydrologic Determinations

Cypress Creek Resiliency Study / October – November 2017 and January 2018

Wet Weather Conveyance 1



Photo 1: Wet Weather Conveyance 1 as observed at the terminus of Elder Road. Scattered vegetation was growing within the channel bottom. As observed from coordinates of N35.05396 / W90.07841.



Photo 2: Wet Weather Conveyance 1 as observed slightly down-gradient of the location shown in Photo 1, at coordinates of N35.05342° / W90.07886°. Gravel was present within the channel bottom, but little to no sorting of substrates was observed in this section of the channel.

Stream 6 (Down-gradient portion of Wet Weather Conveyance 1)



Photo 3: A headcut with water pooled at the base was determined to be the brightline point at which Wet Weather Conveyance 1 became a stream. This point is at coordinates of N35.05327° / W90.07907°.



Photo 4: Stream 6 as observed slightly down-gradient of the headcut / brightline point shown in Photo 3. Substrate within this portion of the channel was clay. As observed from coordinates of N35.05330° / W90.07933°.

Wet Weather Conveyance 2



Photo 5: Wet Weather Conveyance 2 flows east from this pipe near the terminus of Calvin Road at coordinates of N35.05322° / W90.09198°



Photo 6: View looking down-gradient from the same location as Photo 5, at coordinates of N35.05322° / W90.09198°.



Photo 7: Representative photo of the appearance of the channel as observed from coordinates of N35.05286° / W90.09109°. As shown, debris piles were present on the up-gradient side of obstructions.



Photo 8: Representative photo of Wet Weather Conveyance 2 as observed within the middle portion of the reach at coordinates of N35.05279° / W90.09101°.

Wetland 3 (Down-gradient of Wet Weather Conveyance 2)



Photo 9: Representative photo near the point where Wet Weather Conveyance 2 fans out into Wetland 3. Photo taken at approximate coordinates of N35.05291° / W90.09016°.

Wet Weather Conveyance 3



Photo 10: Representative photo of the upper portion of Wet Weather Conveyance 3 as observed from approximate coordinates of N35.05902° / W90.09416°. The channel was poorly defined. Recently fallen leaves were covering the channel bottom.

Wetland 7 (Down-gradient of Wet Weather Conveyance 3)



Photo 11: Wet Weather Conveyance 3 fans out into Wetland 7. This photo is representative of Wetland 7 as observed near coordinates of N35.05998° / W90.09400°.

Wet Weather Conveyance 4



Photo 12: Representative photo of the point where Wet Weather Conveyance 4 begins. This location is north of Wetland 7 near coordinates of N35.06184° / W90.09511°.



Photo 13: Representative view of Wet Weather Conveyance 4 as observed within the middle portion of the reach near coordinates of N35.06212° / W90.09509°.



Photo 14: Representative photo of Wet Weather Conveyance 4 as observed near coordinates of N35.06212° / W90.09509°.

Stream 11 (Down-gradient of Wet Weather Conveyance 4)



Photo 15: Down-gradient of a headcut and groundwater seep, near coordinates of N35.06211° / W90.09506°, the channel was determined to be a stream.

Wet Weather Conveyance 5



Photo 16: Representative appearance of the upper portion of Wet Weather Conveyance 5 as observed near coordinates of N35.06297° / W90.09585°.



Photo 17: Representative photo of the middle portion of Wet Weather Conveyance 5, as observed near coordinates of N35.06342° / W90.09529°.



Photo 18: Representative photo of the lower portion of Wet Weather Conveyance 5, at coordinates of N35.06328° / W90.09550°. Large amounts of leaves were accumulated within the channel bottom.



Photo 19: Confluence point of Wet Weather Conveyance 5 with Cypress Creek as observed at coordinates of N35.06344° / W90.09549°.

Wet Weather Conveyance 6



Photo 20: Wet Weather Conveyance 6 as observed just south of Mitchell Road. A large scour hole is located within this location near coordinates of N35.05572° / W90.08055°.



Photo 21: Representative photo of Wet Weather Conveyance 6 as observed within the middle portion of the reach near coordinates of N35.05544° / W90.08078°.



Photo 22: Further down-gradient, the channel fans out and displays a braiding pattern. The channel is poorly defined in this location at coordinates of N35.05485° / W90.08127°.

Stream 6 (Down-gradient of Wet Weather Conveyance 6)



Photo 23: Down-gradient of the braiding is a large headcut with water at the base. The headcut is located at approximate coordinates of N35.05455° / W90.08178. It was determined that the channel transitions to a stream in this location.



Photo 24: Representative photo of the appearance of the channel down-gradient of the headcut. This photo was taken at coordinates of N35.05406° / W90.08253°.

CHANNEL 1 INFORMATION

Hydrologic Determination Field Data Sheet
StreamStats Report
USDA Soil Survey

wet Weather Conveyance 1

Hydrologic Determination Field Data Sheet

Tennessee Division of Water Pollution Control, Version 1.4

| | | |
|---|--|--|
| County: <u>Shelby</u> | Named Waterbody: | Date/Time: <u>10/31/2017</u> |
| Assessors/Affiliation: <u>J. Morrison + M. Lee / Brophy-Heineke Associates, Inc.</u> | | Project ID: |
| Site Name/Description: <u>Cypress Creek Resiliency Study</u> | | |
| Site Location: <u>West of Elder Road, South of Mitchell Road</u> | | |
| USGS quad: <u>SW Memphis</u> | HUC (12 digit): <u>080102110201</u> | Lat/Long: <u>35.05397, -90.07828</u> <u>35.05327, -90.07907</u> |
| Previous Rainfall (7-days): <u>1.17" on 10/27</u> | | |
| Precipitation this Season vs. Normal: very wet wet <u>(average)</u> dry drought unknown | | |
| Source of recent & seasonal precip data: <u>NDAA website</u> | | |
| Watershed Size: <u>0.04 mi² / 25.6 acres</u> | Photos: <u>Y</u> or N (circle) Number: <u>See Photo doc.</u> | |
| Soil Type(s) / Geology: <u>Graded land (Gr), Falaya silt loam (Fm)</u> | | Source: <u>USDA Soil Survey</u> |
| Surrounding Land Use: <u>forested, residential</u> | | |
| Degree of historical alteration to natural channel morphology & hydrology (circle one & describe fully in Notes): <div style="display: flex; justify-content: space-around;"> Severe <u>Moderate</u> <u>Slight</u> Absent </div> | | |

Primary Field Indicators Observed

| Primary Indicators | NO | YES |
|--|----|--------|
| 1. Hydrologic feature exists solely due to a process discharge | | WWC |
| 2. Defined bed and bank absent, dominated by upland vegetation / grass | | WWC |
| 3. Watercourse dry anytime during February through April 15th, under normal precipitation / groundwater conditions | | WWC |
| 4. Daily flow and precipitation records showing feature only flows in direct response to rainfall | | WWC |
| 5. Presence of multiple populations of obligate lotic organisms with ≥ 2 month aquatic phase | | Stream |
| 6. Presence of fish (except <i>Gambusia</i>) | | Stream |
| 7. Presence of naturally occurring ground water table connection | | Stream |
| 8. Flowing water in channel and 7 days since last precipitation in local watershed | | Stream |
| 9. Evidence watercourse has been used as a supply of drinking water | | Stream |

NOTE : If any Primary Indicators 1-9 = "Yes", then STOP; absent directly contradictory evidence, determination is complete.

In the absence of a primary indicator, or other definitive evidence, complete the secondary indicator table on page 2 of this sheet, and provide score below.

Guidance for the interpretation and scoring of both the primary & secondary indicators is provided in *TDEC-WPC Guidance For Making Hydrologic Determinations, Version 1.4*

Overall Hydrologic Determination = wet weather conveyance

Secondary Indicator Score (if applicable) = 17.0

Justification / Notes : Channel originates at the terminus of Elder Road. At this point the channel is small with sporadic vegetation growing along the base (see Photo 1). Overall, channel appears to be a flashy system- as it receives drainage from the adjacent neighborhood. Channel becomes more defined as you head down-gradient. gravel present in the channel (Photo 2)

Wet Weather Conveyance 1 Secondary Field Indicator Evaluation

| A. Geomorphology (Subtotal = 7.5) | Absent | Weak | Moderate | Strong |
|--|--------|------|----------|--------|
| 1. Continuous bed and bank | 0 | 1 | 2 | 3 |
| 2. Sinuous channel | 0 | 1 | 2 | 3 |
| 3. In-channel structure: riffle-pool sequences | 0 | 1 | 2 | 3 |
| 4. Sorting of soil textures or other substrate | 0 | 1 | 2 | 3 |
| 5. Active/relic floodplain | 0 | 1 | 2 | 3 |
| 6. Depositional bars or benches | 0 | 1 | 2 | 3 |
| 7. Braided channel | 0 | 1 | 2 | 3 |
| 8. Recent alluvial deposits | 0 | 0.5 | 1 | 1.5 |
| 9. Natural levees | 0 | 1 | 2 | 3 |
| 10. Headcuts | 0 | 1 | 2 | 3 |
| 11. Grade controls | 0 | 0.5 | 1 | 1.5 |
| 12. Natural valley or drainageway | 0 | 0.5 | 1 | 1.5 |
| 13. At least second order channel on existing USGS or NRCS map | No = 0 | | Yes = 3 | |

| B. Hydrology (Subtotal = 5.5) | Absent | Weak | Moderate | Strong |
|--|--------|------|-----------|--------|
| 14. Subsurface flow/discharge into channel | 0 | 1 | 2 | 3 |
| 15. Water in channel and >48 hours since sig. rain | 0 | 1 | 2 | 3 |
| 16. Leaf litter in channel (January – September) N/A | 1.5 | 1 | 0.5 | 0 |
| 17. Sediment on plants or on debris | 0 | 0.5 | 1 | 1.5 |
| 18. Organic debris lines or piles (wrack lines) | 0 | 0.5 | 1 | 1.5 |
| 19. Hydric soils in stream bed or sides of channel | No = 0 | | Yes = 1.5 | |

| C. Biology (Subtotal = 4.0) | Absent | Weak | Moderate | Strong |
|--|--------|------|----------|--------|
| 20. Fibrous roots in channel ¹ | 3 | 2 | 1 | 0 |
| 21. Rooted plants in channel ¹ | 3 | 2 | 1 | 0 |
| 22. Crayfish in stream (exclude in floodplain) | 0 | 0.5 | 1 | 1.5 |
| 23. Bivalves/mussels | 0 | 1 | 2 | 3 |
| 24. Amphibians | 0 | 0.5 | 1 | 1.5 |
| 25. Macroinvertebrates (record type & abundance) | 0 | 1 | 2 | 3 |
| 26. Filamentous algae; periphyton | 0 | 1 | 2 | 3 |
| 27. Iron oxidizing bacteria/fungus | 0 | 0.5 | 1 | 1.5 |
| 28. Wetland plants in channel ² | 0 | 0.5 | 1 | 2 |

¹ Focus is on the presence of upland plants.

² Focus is on the presence of aquatic or wetland plants.

Total Points = 17.0

Under Normal Conditions, Watercourse is a Wet Weather Conveyance if Secondary Indicator Score < 19 points

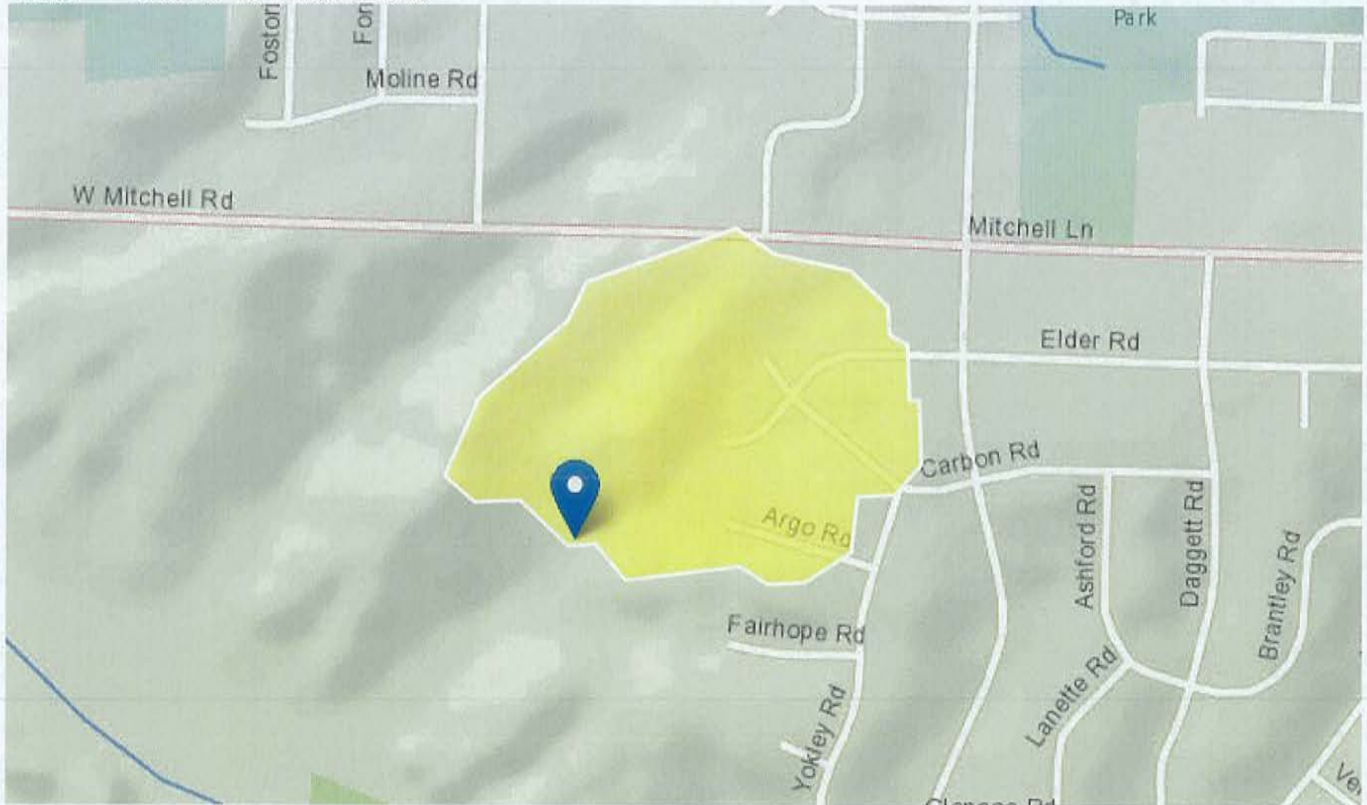
Notes :

bottom, but no sorting observed. minor amounts of pooled water within the lower portion of reach (likely from recent rain events.)

{ Brightline point at which this channel was determined to become a stream was at a headcut at coordinates of N35.05327/W90.07907. (Photos 3 and 4) }

StreamStats Report

Region ID: TN
Workspace ID: TN20180118194402653000
Clicked Point (Latitude, Longitude): 35.05308, -90.07982
Time: 2018-01-18 13:44:22 -0600



Basin Characteristics

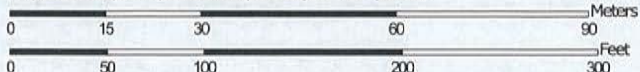
| Parameter Code | Parameter Description | Value | Unit |
|----------------|---|-------|--------------|
| DRNAREA | Area that drains to a point on a stream | 0.04 | square miles |

Hydric Rating by Map Unit—Shelby County, Tennessee



Soil Map may not be valid at this scale.

Map Scale: 1:1,130 if printed on A portrait (8.5" x 11") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 15N WGS84

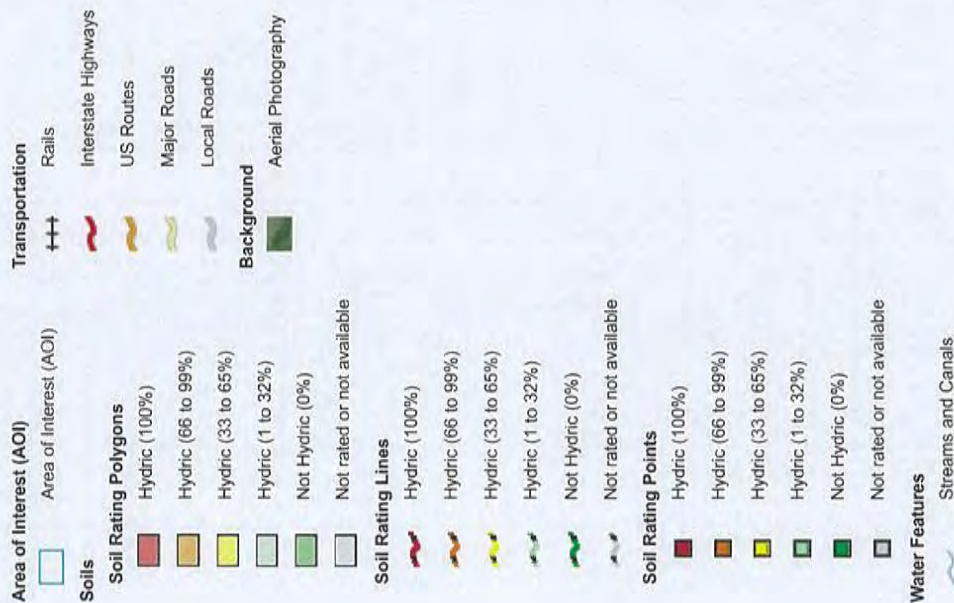


Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

12/27/2017
Page 1 of 5

MAP LEGEND



MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Shelby County, Tennessee

Survey Area Data: Version 12, Sep 25, 2017

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 19, 2014—Feb 2, 2017

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydric Rating by Map Unit

| Map unit symbol | Map unit name | Rating | Acres in AOI | Percent of AOI |
|------------------------------------|---|--------|--------------|----------------|
| Fm | Falaya silt loam | 9 | 2.5 | 38.5% |
| Gr | Graded land, silty materials(udorthent, silty) | 0 | 0.8 | 12.2% |
| MeB | Memphis silt loam, 2 to 5 percent slopes | 0 | 0.4 | 6.4% |
| MeD3 | Memphis silt loam, 5 to 12 percent slopes, severely eroded | 0 | 1.3 | 19.1% |
| MeF3 | Memphis silt loam, 12 to 30 percent slopes, severely eroded | 0 | 1.6 | 23.7% |
| Totals for Area of Interest | | | 6.6 | 100.0% |

CHANNEL 2 INFORMATION

Hydrologic Determination Field Data Sheet
StreamStats Report
USDA Soil Survey

Wet Weather Conveyance 2 Hydrologic Determination Field Data Sheet

Tennessee Division of Water Pollution Control, Version 1.4

| | | |
|--|---|--|
| County: Shelby | Named Waterbody: | Date/Time: 10/2/2017 |
| Assessors/Affiliation: J. Morrison + M. Lee / Brophy-Heineke + Associates, Inc. | | Project ID: |
| Site Name/Description: Cypress Creek Resiliency Study | | |
| Site Location: South of Nora Road, at terminus of Calvin Road | | |
| USGS quad: SW Memphis | HUC (12 digit): 080102110201 | Lat/Long: 35.05322, -90.09198 35.05291, -90.09069 |
| Previous Rainfall (7-days): 0 | | |
| Precipitation this Season vs. Normal: very wet wet <u>average</u> dry drought unknown | | |
| Source of recent & seasonal precip data: NOAA website | | |
| Watershed Size: 0.05 mi² / 32 acres | Photos: <u>Y</u> or N (circle) Number See photo Doc. | |
| Soil Type(s) / Geology: Memphis silt loam (med2), Falaya silt loam (fm) | | Source: USDA Soil Survey |
| Surrounding Land Use: residential, forested | | |
| Degree of historical alteration to natural channel morphology & hydrology (circle one & describe fully in Notes): Severe <u>Moderate</u> <u>Slight</u> Absent | | |

Primary Field Indicators Observed

| Primary Indicators | NO | YES |
|--|----|--------|
| 1. Hydrologic feature exists solely due to a process discharge | | WWC |
| 2. Defined bed and bank absent, dominated by upland vegetation / grass | | WWC |
| 3. Watercourse dry anytime during February through April 15th, under normal precipitation / groundwater conditions | | WWC |
| 4. Daily flow and precipitation records showing feature only flows in direct response to rainfall | | WWC |
| 5. Presence of multiple populations of obligate lotic organisms with ≥ 2 month aquatic phase | | Stream |
| 6. Presence of fish (except <i>Gambusia</i>) | | Stream |
| 7. Presence of naturally occurring ground water table connection | | Stream |
| 8. Flowing water in channel and 7 days since last precipitation in local watershed | | Stream |
| 9. Evidence watercourse has been used as a supply of drinking water | | Stream |

NOTE : If any Primary Indicators 1-9 = "Yes", then STOP; absent directly contradictory evidence, determination is complete.

In the absence of a primary indicator, or other definitive evidence, complete the secondary indicator table on page 2 of this sheet, and provide score below.

Guidance for the interpretation and scoring of both the primary & secondary indicators is provided in *TDEC-WPC Guidance For Making Hydrologic Determinations, Version 1.4*

Overall Hydrologic Determination = Wet Weather Conveyance

Secondary Indicator Score (if applicable) = 14.0

Justification / Notes : Channel originates at the terminus of Calvin Road. At this point the channel is small and poorly defined (Photos 5 and 6). Debris piles were present on the up-gradient side of obstructions (photo 7). Near coordinates of N35.05291 | W90.09016, the channel fans out into wetland 3.

Secondary Field Indicator Evaluation

A. Geomorphology (Subtotal = 6.5)

| A. Geomorphology (Subtotal = 6.5) | Absent | Weak | Moderate | Strong |
|--|---------------|-------------|-----------------|---------------|
| 1. Continuous bed and bank | 0 | 1 | 2 | 3 |
| 2. Sinuous channel | 0 | 1 | 2 | 3 |
| 3. In-channel structure: riffle-pool sequences | 0 | 1 | 2 | 3 |
| 4. Sorting of soil textures or other substrate | 0 | 1 | 2 | 3 |
| 5. Active/relic floodplain | 0 | 1 | 2 | 3 |
| 6. Depositional bars or benches | 0 | 1 | 2 | 3 |
| 7. Braided channel | 0 | 1 | 2 | 3 |
| 8. Recent alluvial deposits | 0 | 0.5 | 1 | 1.5 |
| 9. Natural levees | 0 | 1 | 2 | 3 |
| 10. Headcuts | 0 | 1 | 2 | 3 |
| 11. Grade controls | 0 | 0.5 | 1 | 1.5 |
| 12. Natural valley or drainageway | 0 | 0.5 | 1 | 1.5 |
| 13. At least second order channel on existing USGS or NRCS map | No = 0 | | Yes = 3 | |

B. Hydrology (Subtotal = 4,0)

| B. Hydrology (Subtotal = 4.0) | Absent | Weak | Moderate | Strong |
|--|---------------|-------------|-----------------|---------------|
| 14. Subsurface flow/discharge into channel | 0 | 1 | 2 | 3 |
| 15. Water in channel and >48 hours since sig. rain | 0 | 1 | 2 | 3 |
| 16. Leaf litter in channel (January – September) N/A | 1.5 | 1 | 0.5 | 0 |
| 17. Sediment on plants or on debris | 0 | 0.5 | 1 | 1.5 |
| 18. Organic debris lines or piles (wrack lines) | 0 | 0.5 | 1 | 1.5 |
| 19. Hydric soils in stream bed or sides of channel | No = 0 | | Yes = 1.5 | |

C. Biology (Subtotal = 3.5)

| C. Biology (Subtotal = 3.5) | Absent | Weak | Moderate | Strong |
|--|---------------|-------------|-----------------|---------------|
| 20. Fibrous roots in channel ¹ | 3 | 2 | 1 | 0 |
| 21. Rooted plants in channel ¹ | 3 | 2 | 1 | 0 |
| 22. Crayfish in stream (exclude in floodplain) | 0 | 0.5 | 1 | 1.5 |
| 23. Bivalves/mussels | 0 | 1 | 2 | 3 |
| 24. Amphibians | 0 | 0.5 | 1 | 1.5 |
| 25. Macroinvertebrates (record type & abundance) | 0 | 1 | 2 | 3 |
| 26. Filamentous algae; periphyton | 0 | 1 | 2 | 3 |
| 27. Iron oxidizing bacteria/fungus | 0 | 0.5 | 1 | 1.5 |
| 28. Wetland plants in channel ² | 0 | 0.5 | 1 | 2 |

¹ Focus is on the presence of upland plants. ² Focus is on the presence of aquatic or wetland plants.

Total Points = 14.0

Under Normal Conditions, Watercourse is a Wet Weather Conveyance if Secondary Indicator Score < 19 points

Notes :

StreamStats Report

Region ID: TN**Workspace ID:** TN20180118194651559000**Clicked Point (Latitude, Longitude):** 35.05306, -90.09205**Time:** 2018-01-18 13:47:09 -0600

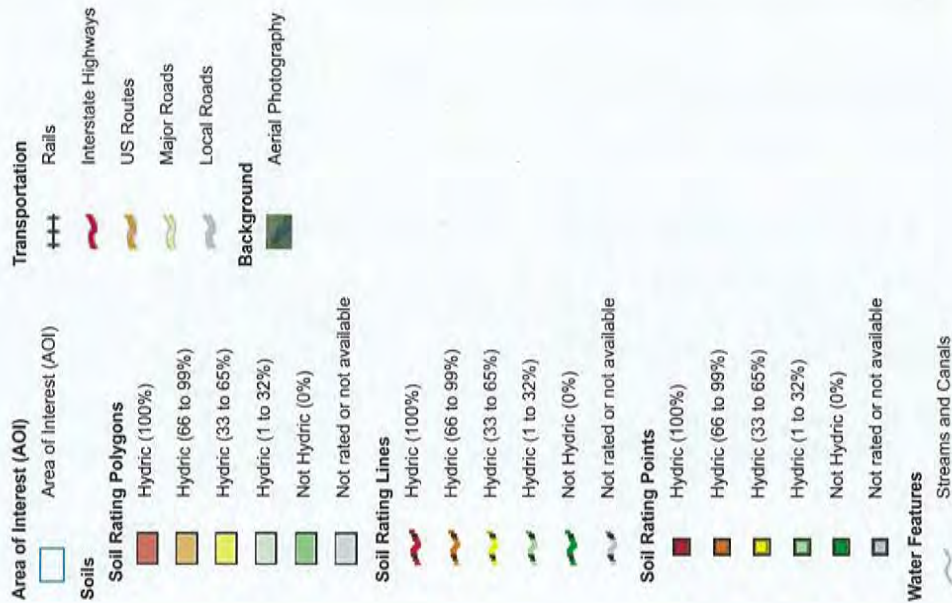
Basin Characteristics

| Parameter Code | Parameter Description | Value | Unit |
|----------------|---|-------|--------------|
| DRNAREA | Area that drains to a point on a stream | 0.05 | square miles |

Hydric Rating by Map Unit—Shelby County, Tennessee



MAP LEGEND



MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Shelby County, Tennessee

Survey Area Data: Version 12, Sep 25, 2017

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 19, 2014—Feb 2, 2017

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydric Rating by Map Unit

| Map unit symbol | Map unit name | Rating | Acres in AOI | Percent of AOI |
|------------------------------------|---|--------|--------------|----------------|
| Fm | Falaya silt loam | 9 | 3.6 | 47.7% |
| MeB | Memphis silt loam, 2 to 5 percent slopes | 0 | 0.6 | 7.8% |
| MeD2 | Memphis silt loam, 8 to 12 percent slopes, eroded | 0 | 3.4 | 44.5% |
| Totals for Area of Interest | | | 7.6 | 100.0% |

CHANNEL 3 INFORMATION

Hydrologic Determination Field Data Sheet
StreamStats Report
USDA Soil Survey

wet weather conveyance 3

Hydrologic Determination Field Data Sheet

Tennessee Division of Water Pollution Control, Version 1.4

| | | |
|--|-------------------------------------|--|
| County: <u>Shelby</u> | Named Waterbody: | Date/Time: <u>11/20/2017</u> |
| Assessors/Affiliation: <u>J. Morrison + M. Lee / Brophy-Heineke Associates, Inc.</u> | Project ID: | |
| Site Name/Description: <u>Cypress Creek Resiliency Study</u> | | |
| Site Location: <u>W of Weaver Road, near Mitchell Road</u> | | |
| USGS quad: <u>SW Memphis</u> | HUC (12 digit): <u>080102110201</u> | Lat/Long: <u>35.05723, -90.09551</u> <u>35.06193, -90.09349</u> |
| Previous Rainfall (7-days): <u>11/18 = 0.3", 11/15 = 0.12"</u> | | |
| Precipitation this Season vs. Normal: very wet wet <u>average</u> dry drought unknown | | |
| Source of recent & seasonal precip data: <u>NOAA website</u> | | |
| Watershed Size: <u>0.14 - 0.18 mi² / 89.6 - 115.2 acres</u> | | Photos <u>Y</u> or N (circle) Number: <u>See Photo Doc.</u> |
| Soil Type(s) / Geology: <u>Falaya silt loam (fm), Memphis (MeF3)</u> | | Source: <u>USDA Soil Survey</u> |
| Surrounding Land Use: <u>roadway, forested, autosalvage yard</u> | | |
| Degree of historical alteration to natural channel morphology & hydrology (circle one & describe fully in Notes): Severe <u>Moderate</u> <u>Slight</u> Absent | | |

Primary Field Indicators Observed

| Primary Indicators | NO | YES |
|--|----|--------|
| 1. Hydrologic feature exists solely due to a process discharge | | WWC |
| 2. Defined bed and bank absent, dominated by upland vegetation / grass | | WWC |
| 3. Watercourse dry anytime during February through April 15th, under normal precipitation / groundwater conditions | | WWC |
| 4. Daily flow and precipitation records showing feature only flows in direct response to rainfall | | WWC |
| 5. Presence of multiple populations of obligate lotic organisms with ≥ 2 month aquatic phase | | Stream |
| 6. Presence of fish (except <i>Gambusia</i>) | | Stream |
| 7. Presence of naturally occurring ground water table connection | | Stream |
| 8. Flowing water in channel and 7 days since last precipitation in local watershed | | Stream |
| 9. Evidence watercourse has been used as a supply of drinking water | | Stream |

NOTE: If any Primary Indicators 1-9 = "Yes", then STOP; absent directly contradictory evidence, determination is complete.

In the absence of a primary indicator, or other definitive evidence, complete the secondary indicator table on page 2 of this sheet, and provide score below.

Guidance for the interpretation and scoring of both the primary & secondary indicators is provided in *TDEC-WPC Guidance For Making Hydrologic Determinations, Version 1.4*

Overall Hydrologic Determination = Wet weather conveyance

Secondary Indicator Score (if applicable) = 12.5

Justification / Notes: For the most part, a channel is not present in this location shown on the topographic map. The upper portion of the channel is poorly defined, as shown in Photo 10. The channel then fans out into wetland 7 (photo 11). No channel is visible through the wetland area. Coordinates for the location of the channel are based off the topo.

Secondary Field Indicator Evaluation

| A. Geomorphology (Subtotal = <u>2.5</u>) | | | | |
|--|----------|------|----------|--------|
| | Absent | Weak | Moderate | Strong |
| 1. Continuous bed and bank * | 0 | (1) | 2 | 3 |
| 2. Sinuous channel * | 0 | (1) | 2 | 3 |
| 3. In-channel structure: riffle-pool sequences | (0) | 1 | 2 | 3 |
| 4. Sorting of soil textures or other substrate | (0) | 1 | 2 | 3 |
| 5. Active/relic floodplain | (0) | 1 | 2 | 3 |
| 6. Depositional bars or benches | (0) | 1 | 2 | 3 |
| 7. Braided channel | (0) | 1 | 2 | 3 |
| 8. Recent alluvial deposits | (0) | 0.5 | 1 | 1.5 |
| 9. Natural levees | (0) | 1 | 2 | 3 |
| 10. Headcuts | (0) | 1 | 2 | 3 |
| 11. Grade controls | (0) | 0.5 | 1 | 1.5 |
| 12. Natural valley or drainageway | 0 | 0.5 | (1) | 1.5 |
| 13. At least second order channel on existing USGS or NRCS map | (No = 0) | | Yes = 3 | |

| B. Hydrology (Subtotal = <u>3.0</u>) | | | | |
|---|--------|-------|-------------|--------|
| | Absent | Weak | Moderate | Strong |
| 14. Subsurface flow/discharge into channel * | 0 | (1) | 2 | 3 |
| 15. Water in channel and >48 hours since sig. rain * | (0) | 1 | 2 | 3 |
| 16. Leaf litter in channel (January – September) ^{N/A} | 1.5 | 1 | 0.5 | 0 |
| 17. Sediment on plants or on debris | 0 | (0.5) | 1 | 1.5 |
| 18. Organic debris lines or piles (wrack lines) | 0 | (0.5) | 1 | 1.5 |
| 19. Hydric soils in stream bed or sides of channel | No = 0 | | (Yes = 1.5) | |

| C. Biology (Subtotal = <u>7.0</u>) | | | | |
|--|--------|------|----------|--------|
| | Absent | Weak | Moderate | Strong |
| 20. Fibrous roots in channel * | 3 | (2) | 1 | 0 |
| 21. Rooted plants in channel * | (3) | 2 | 1 | 0 |
| 22. Crayfish in stream (exclude in floodplain) | (0) | 0.5 | 1 | 1.5 |
| 23. Bivalves/mussels | (0) | 1 | 2 | 3 |
| 24. Amphibians | (0) | 0.5 | 1 | 1.5 |
| 25. Macroinvertebrates (record type & abundance) | (0) | 1 | 2 | 3 |
| 26. Filamentous algae; periphyton | (0) | 1 | 2 | 3 |
| 27. Iron oxidizing bacteria/fungus | (0) | 0.5 | 1 | 1.5 |
| 28. Wetland plants in channel ² in wetland area | 0 | 0.5 | 1 | (2) |

¹ Focus is on the presence of upland plants.

² Focus is on the presence of aquatic or wetland plants.

Total Points = 12.5

Under Normal Conditions, Watercourse is a Wet Weather Conveyance if Secondary Indicator Score < 19 points

Notes: * - little to no channel present

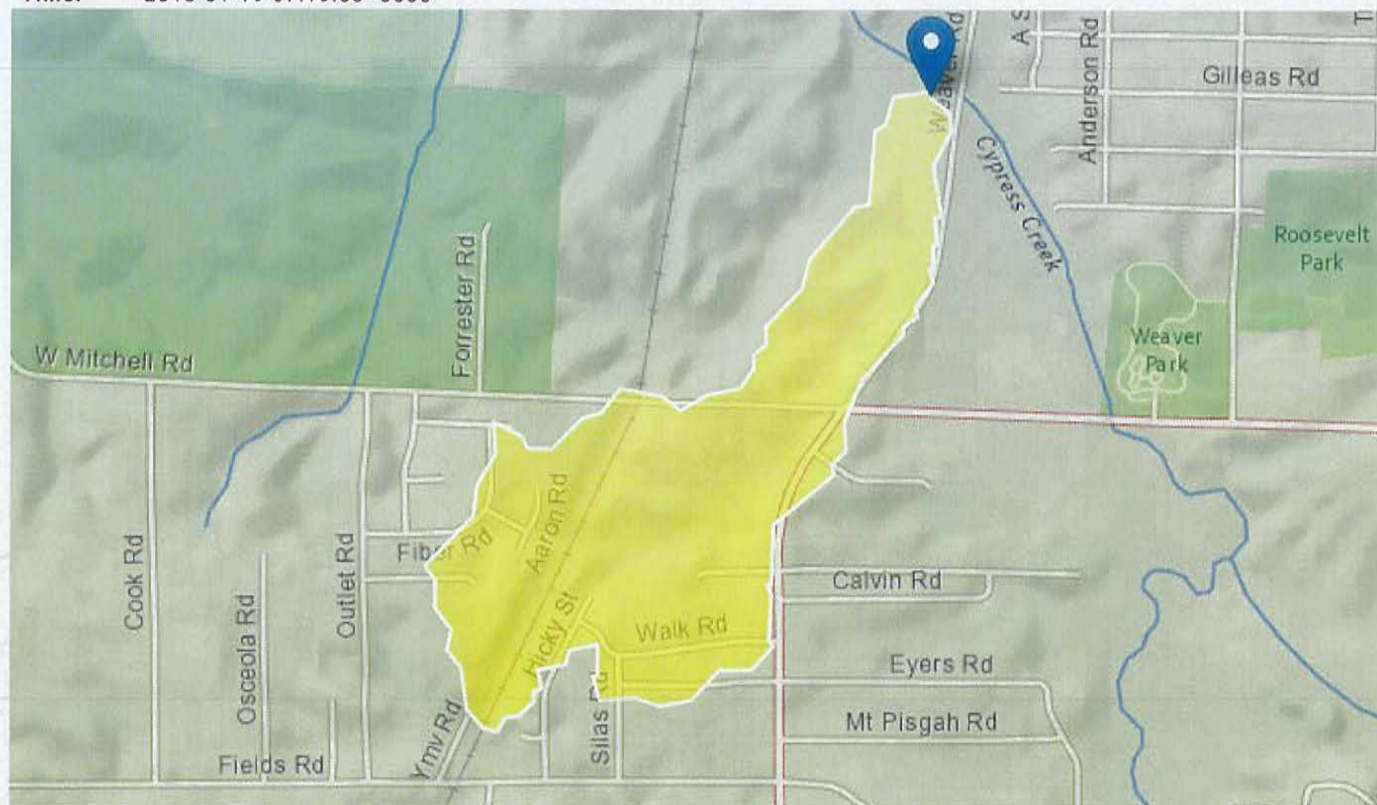
StreamStats Report

Region ID: TN

Workspace ID: TN20180119131939548000

Clicked Point (Latitude, Longitude): 35.06169, -90.09351

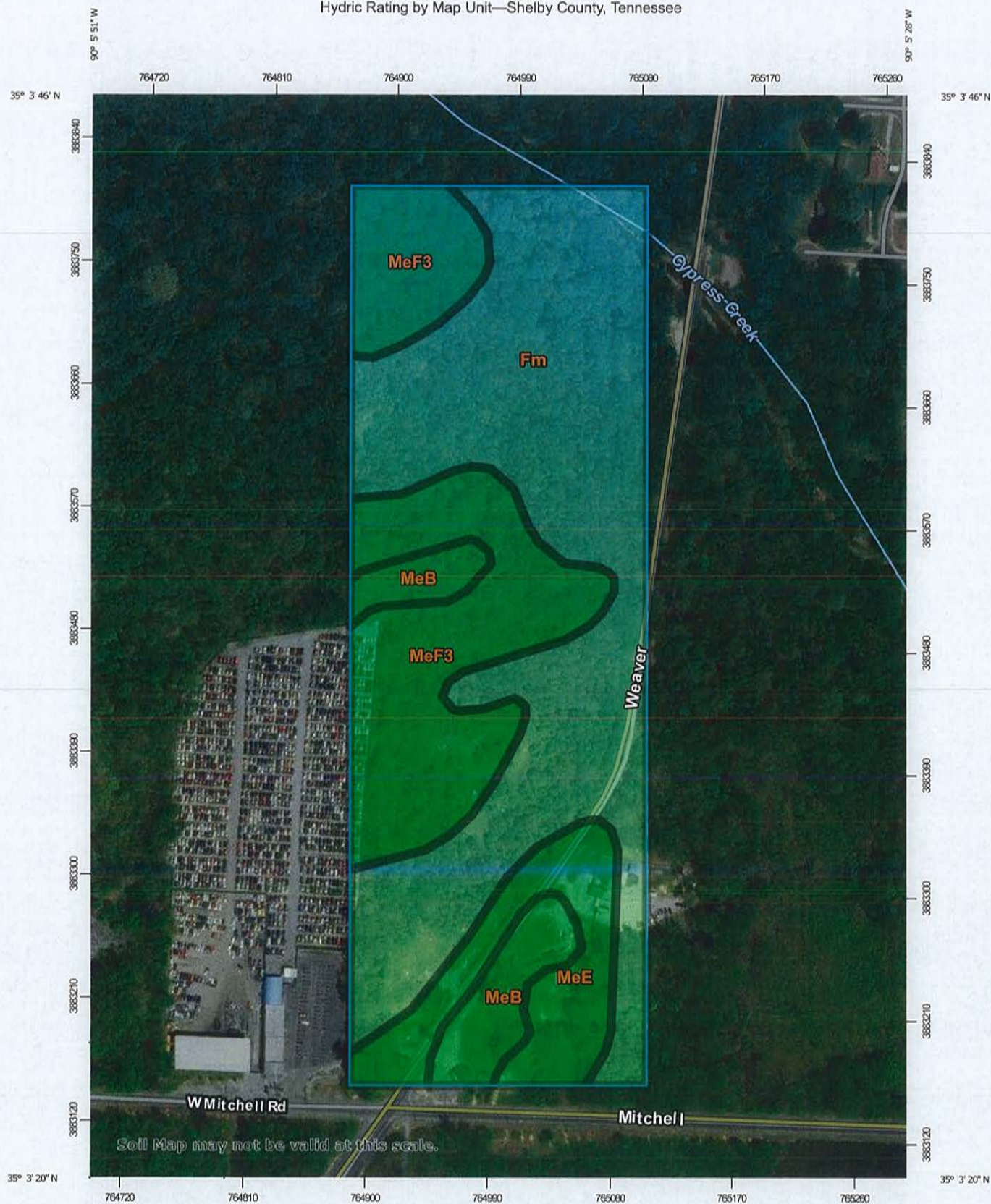
Time: 2018-01-19 07:19:58 -0600



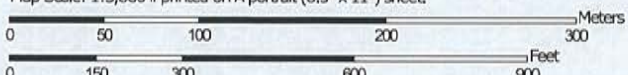
Basin Characteristics

| Parameter Code | Parameter Description | Value | Unit |
|----------------|---|-------|--------------|
| DRNAREA | Area that drains to a point on a stream | 0.18 | square miles |

Hydric Rating by Map Unit—Shelby County, Tennessee



Map Scale: 1:3,860 if printed on A portrait (8.5" x 11") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 15N WGS84

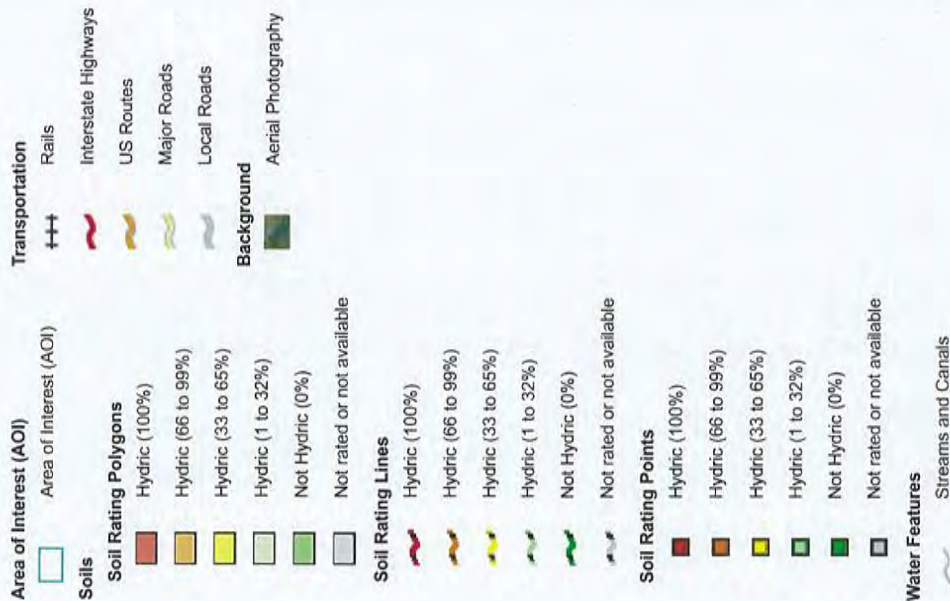


Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

1/19/2018
Page 1 of 5

MAP LEGEND



MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL:
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Shelby County, Tennessee
 Survey Area Data: Version 12, Sep 25, 2017

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 19, 2014—Feb 2, 2017

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydric Rating by Map Unit

| Map unit symbol | Map unit name | Rating | Acres in AOI | Percent of AOI |
|------------------------------------|---|--------|--------------|----------------|
| Fm | Falaya silt loam | 9 | 19.1 | 53.5% |
| MeB | Memphis silt loam, 2 to 5 percent slopes | 0 | 2.6 | 7.2% |
| MeE | Memphis silt loam, 12 to 20 percent slopes | 0 | 3.9 | 11.0% |
| MeF3 | Memphis silt loam, 12 to 30 percent slopes, severely eroded | 0 | 10.1 | 28.4% |
| Totals for Area of Interest | | | 35.7 | 100.0% |

CHANNEL 4 INFORMATION

Hydrologic Determination Field Data Sheet
StreamStats Report
USDA Soil Survey

Wet Weather Conveyance 4 Hydrologic Determination Field Data Sheet

Tennessee Division of Water Pollution Control, Version 1.4

| | | | | | |
|---|--|-------------------------------------|--|---|--|
| County: Shelby | | Named Waterbody: | | Date/Time: 11/20/2017 | |
| Assessors/Affiliation: J. Morrison + M. Lee / Brophy-Heineke + Associates, Inc. | | | | Project ID: | |
| Site Name/Description: Cypress Creek Resiliency Study | | | | | |
| Site Location: W of Weaver Road, western portion of project area | | | | | |
| USGS quad: SW Memphis | | HUC (12 digit): 080102110201 | | Lat/Long: 35.05965, -90.09643 | |
| Previous Rainfall (7-days): 11/18 = 0.3", 11/15 = 0.12" | | | | Lat/Long: 35.06211, -90.09506 | |
| Precipitation this Season vs. Normal: very wet wet <u>average</u> dry drought unknown | | | | | |
| Source of recent & seasonal precip data: NDAA website | | | | | |
| Watershed Size: 0.09-0.12 mi² / 57.6-76.8 acres | | | | Photos: Y or N (circle) Number See Photo Doc. | |
| Soil Type(s) / Geology: Memphis silt loam (MeF3), Falaya (Fm) | | | | Source: USDA Soil Survey | |
| Surrounding Land Use: forested, riparian buffer | | | | | |
| Degree of historical alteration to natural channel morphology & hydrology (circle one & describe fully in Notes): <div style="display: flex; justify-content: space-around;"> Severe <u>Moderate</u> <u>Slight</u> Absent </div> | | | | | |

Primary Field Indicators Observed

| Primary Indicators | NO | YES |
|--|----|--------|
| 1. Hydrologic feature exists solely due to a process discharge | | WWC |
| 2. Defined bed and bank absent, dominated by upland vegetation / grass | | WWC |
| 3. Watercourse dry anytime during February through April 15th, under normal precipitation / groundwater conditions | | WWC |
| 4. Daily flow and precipitation records showing feature only flows in direct response to rainfall | | WWC |
| 5. Presence of multiple populations of obligate lotic organisms with ≥ 2 month aquatic phase | | Stream |
| 6. Presence of fish (except <i>Gambusia</i>) | | Stream |
| 7. Presence of naturally occurring ground water table connection | | Stream |
| 8. Flowing water in channel and 7 days since last precipitation in local watershed | | Stream |
| 9. Evidence watercourse has been used as a supply of drinking water | | Stream |

NOTE: If any Primary Indicators 1-9 = "Yes", then STOP; absent directly contradictory evidence, determination is complete.

In the absence of a primary indicator, or other definitive evidence, complete the secondary indicator table on page 2 of this sheet, and provide score below.

Guidance for the interpretation and scoring of both the primary & secondary indicators is provided in TDEC- WPC Guidance For Making Hydrologic Determinations, Version 1.4

Overall Hydrologic Determination = Wet weather conveyance

Secondary Indicator Score (if applicable) = 14,0

Justification / Notes: Although the topographic map shows this channel as beginning further south, the defined channel actually originates north of wetland 7 (WN35.06184/W90.09511) - see photo 12. From there the channel becomes larger (Photos 13+14).

Brightline point (where the channel transitions

Secondary Field Indicator Evaluation

| A. Geomorphology (Subtotal = 5.5) | | | | |
|--|--------|------|----------|--------|
| | Absent | Weak | Moderate | Strong |
| 1. Continuous bed and bank | 0 | 1 | 2 | 3 |
| 2. Sinuous channel | 0 | 1 | 2 | 3 |
| 3. In-channel structure: riffle-pool sequences | 0 | 1 | 2 | 3 |
| 4. Sorting of soil textures or other substrate | 0 | 1 | 2 | 3 |
| 5. Active/relic floodplain | 0 | 1 | 2 | 3 |
| 6. Depositional bars or benches | 0 | 1 | 2 | 3 |
| 7. Braided channel | 0 | 1 | 2 | 3 |
| 8. Recent alluvial deposits | 0 | 0.5 | 1 | 1.5 |
| 9. Natural levees | 0 | 1 | 2 | 3 |
| 10. Headcuts | 0 | 1 | 2 | 3 |
| 11. Grade controls | 0 | 0.5 | 1 | 1.5 |
| 12. Natural valley or drainageway | 0 | 0.5 | 1 | 1.5 |
| 13. At least second order channel on existing USGS or NRCS map | No = 0 | | Yes = 3 | |

| B. Hydrology (Subtotal = 4.5) | | | | |
|--|--------|------|-----------|--------|
| | Absent | Weak | Moderate | Strong |
| 14. Subsurface flow/discharge into channel | 0 | 1 | 2 | 3 |
| 15. Water in channel and >48 hours since sig. rain | 0 | 1 | 2 | 3 |
| 16. Leaf litter in channel (January – September) N/A | 1.5 | 1 | 0.5 | 0 |
| 17. Sediment on plants or on debris | 0 | 0.5 | 1 | 1.5 |
| 18. Organic debris lines or piles (wrack lines) | 0 | 0.5 | 1 | 1.5 |
| 19. Hydric soils in stream bed or sides of channel | No = 0 | | Yes = 1.5 | |

| C. Biology (Subtotal = 4.0) | | | | |
|--|--------|------|----------|--------|
| | Absent | Weak | Moderate | Strong |
| 20. Fibrous roots in channel | 3 | 2 | 1 | 0 |
| 21. Rooted plants in channel ¹ | 3 | 2 | 1 | 0 |
| 22. Crayfish in stream (exclude in floodplain) | 0 | 0.5 | 1 | 1.5 |
| 23. Bivalves/mussels | 0 | 1 | 2 | 3 |
| 24. Amphibians | 0 | 0.5 | 1 | 1.5 |
| 25. Macroinvertebrates (record type & abundance) | 0 | 1 | 2 | 3 |
| 26. Filamentous algae; periphyton | 0 | 1 | 2 | 3 |
| 27. Iron oxidizing bacteria/fungus | 0 | 0.5 | 1 | 1.5 |
| 28. Wetland plants in channel ² | 0 | 0.5 | 1 | 2 |

¹ Focus is on the presence of upland plants.

² Focus is on the presence of aquatic or wetland plants.

Total Points = 14.0

Under Normal Conditions, Watercourse is a Wet Weather Conveyance if Secondary Indicator Score < 19 points

Notes : from a wet weather conveyance to a stream is where a headcut and a groundwater seep are located (~N35.06211/W 90.09506). coordinates for channel location are based on the topo map.

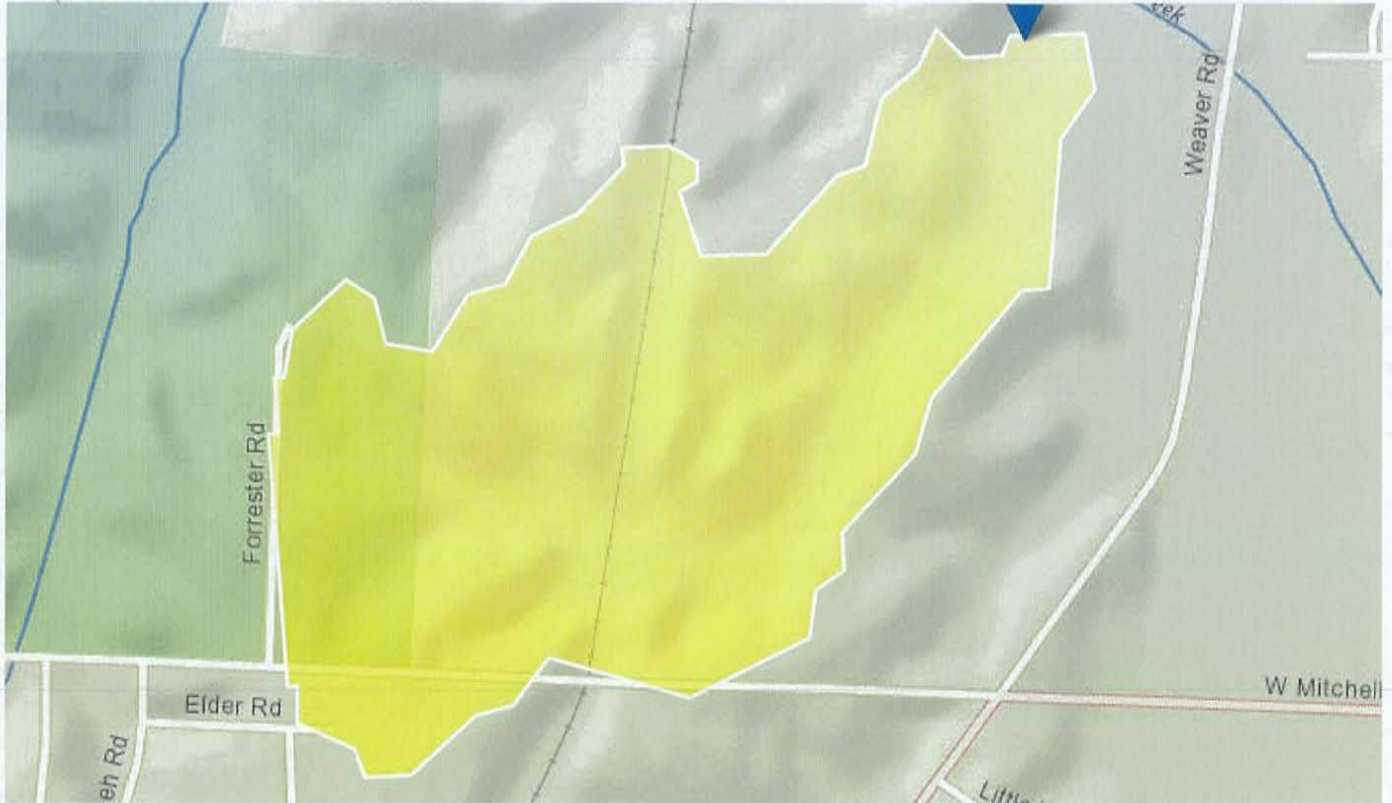
StreamStats Report

Region ID: TN

Workspace ID: TN20180119151133220000

Clicked Point (Latitude, Longitude): 35.06193, -90.09497

Time: 2018-01-19 09:11:52 -0600



Basin Characteristics

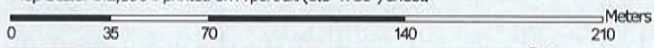
| Parameter Code | Parameter Description | Value | Unit |
|----------------|---|-------|--------------|
| DRNAREA | Area that drains to a point on a stream | 0.12 | square miles |

Hydric Rating by Map Unit—Shelby County, Tennessee



Soil Map may not be valid at this scale.

Map Scale: 1:2,590 if printed on A portrait (8.5" x 11") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge ties: UTM Zone 15N WGS84

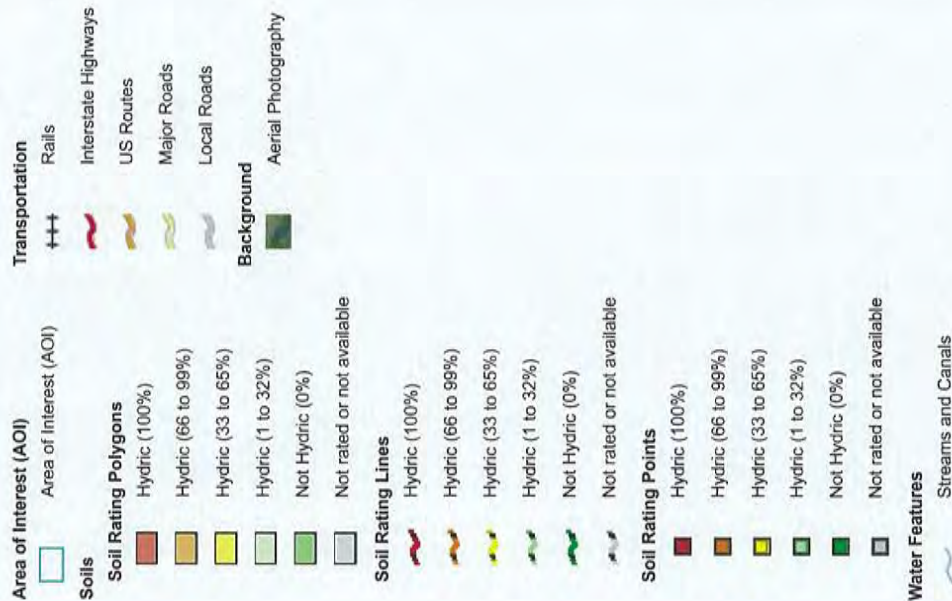


Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

1/19/2018
Page 1 of 5

MAP LEGEND



MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Shelby County, Tennessee

Survey Area Data: Version 12, Sep 25, 2017

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 19, 2014—Feb 2, 2017

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydric Rating by Map Unit

| Map unit symbol | Map unit name | Rating | Acres in AOI | Percent of AOI |
|-----------------------------|---|--------|--------------|----------------|
| Fm | Falaya silt loam | 9 | 4.6 | 30.5% |
| MeB | Memphis silt loam, 2 to 5 percent slopes | 0 | 2.0 | 13.2% |
| MeE | Memphis silt loam, 12 to 20 percent slopes | 0 | 0.0 | 0.0% |
| MeF3 | Memphis silt loam, 12 to 30 percent slopes, severely eroded | 0 | 8.5 | 56.3% |
| Totals for Area of Interest | | | 15.1 | 100.0% |

CHANNEL 5 INFORMATION

Hydrologic Determination Field Data Sheet
StreamStats Report
USDA Soil Survey

Wet weather conveyance 5 Hydrologic Determination Field Data Sheet

Tennessee Division of Water Pollution Control, Version 1.4

| | | |
|--|---|--|
| County: Shelby | Named Waterbody: | Date/Time: 11/20/2017 |
| Assessors/Affiliation: J. Morrison + M. Lee / Brophy-Heinrich Associates, Inc. | Project ID: | |
| Site Name/Description: Cypress Creek Resiliency Study | | |
| Site Location: NW corner of the project area | | |
| USGS quad: SW Memphis | HUC (12 digit): 080102110201 | Lat/Long: 35.00219, -90.09848 35.06344, -90.09549 |
| Previous Rainfall (7-days): 11/18 = 0.3", 11/15 = 0.12" | | |
| Precipitation this Season vs. Normal: very wet wet <u>average</u> dry drought unknown | | |
| Source of recent & seasonal precip data: NDAA website | | |
| Watershed Size: 0.05 - 0.08 mi² / 32 - 51.2 acres | Photos: <u>Y</u> or N (circle) Number See Photo doc. | |
| Soil Type(s) / Geology: Falaya (Fm), Memphis (McF3) | | Source: USDA Soil Survey |
| Surrounding Land Use: forested, railroad | | |
| Degree of historical alteration to natural channel morphology & hydrology (circle one & describe fully in Notes): Severe <u>Moderate</u> <u>Slight</u> Absent | | |

Primary Field Indicators Observed

| Primary Indicators | NO | YES |
|--|----|--------|
| 1. Hydrologic feature exists solely due to a process discharge | | WWC |
| 2. Defined bed and bank absent, dominated by upland vegetation / grass | | WWC |
| 3. Watercourse dry anytime during February through April 15th, under normal precipitation / groundwater conditions | | WWC |
| 4. Daily flow and precipitation records showing feature only flows in direct response to rainfall | | WWC |
| 5. Presence of multiple populations of obligate lotic organisms with ≥ 2 month aquatic phase | | Stream |
| 6. Presence of fish (except <i>Gambusia</i>) | | Stream |
| 7. Presence of naturally occurring ground water table connection | | Stream |
| 8. Flowing water in channel and 7 days since last precipitation in local watershed | | Stream |
| 9. Evidence watercourse has been used as a supply of drinking water | | Stream |

NOTE : If any Primary Indicators 1-9 = "Yes", then STOP; absent directly contradictory evidence, determination is complete.

In the absence of a primary indicator, or other definitive evidence, complete the secondary indicator table on page 2 of this sheet, and provide score below.

Guidance for the interpretation and scoring of both the primary & secondary indicators is provided in TDEC-WPC Guidance For Making Hydrologic Determinations, Version 1.4

Overall Hydrologic Determination = Wet weather conveyance

Secondary Indicator Score (if applicable) = 17.0

Justification / Notes : Channel becomes deeply incised within the lower portion of the reach, but overall appears to be a large gully feature. Large amounts of leaves were present within the channel base. (See Photos 16-19 of the photographic documentation for representative channel appearance.

Secondary Field Indicator Evaluation

A. Geomorphology (Subtotal = 9.5)

| A. Geomorphology (Subtotal = 9.5) | | Absent | Weak | Moderate | Strong |
|--|--|--------|------|----------|--------|
| 1. Continuous bed and bank | | 0 | 1 | 2 | 3 |
| 2. Sinuous channel | | 0 | 1 | 2 | 3 |
| 3. In-channel structure: riffle-pool sequences | | 0 | 1 | 2 | 3 |
| 4. Sorting of soil textures or other substrate | | 0 | 1 | 2 | 3 |
| 5. Active/relic floodplain | | 0 | 1 | 2 | 3 |
| 6. Depositional bars or benches | | 0 | 1 | 2 | 3 |
| 7. Braided channel | | 0 | 1 | 2 | 3 |
| 8. Recent alluvial deposits | | 0 | 0.5 | 1 | 1.5 |
| 9. Natural levees | | 0 | 1 | 2 | 3 |
| 10. Headcuts | | 0 | 1 | 2 | 3 |
| 11. Grade controls | | 0 | 0.5 | 1 | 1.5 |
| 12. Natural valley or drainageway | | 0 | 0.5 | 1 | 1.5 |
| 13. At least second order channel on existing USGS or NRCS map | | No = 0 | | Yes = 3 | |

B. Hydrology (Subtotal = 2.5)

| B. Hydrology (Subtotal = 2.5) | Absent | Weak | Moderate | Strong |
|---|---------------|-------------|-----------------|---------------|
| 14. Subsurface flow/discharge into channel | 0 | 1 | 2 | 3 |
| 15. Water in channel and >48 hours since sig. rain | 0 | 1 | 2 | 3 |
| 16. Leaf litter in channel (January – September) <i>N/A</i> | 1.5 | 1 | 0.5 | 0 |
| 17. Sediment on plants or on debris | 0 | 0.5 | 1 | 1.5 |
| 18. Organic debris lines or piles (wrack lines) | 0 | 0.5 | 1 | 1.5 |
| 19. Hydric soils in stream bed or sides of channel | No = 0 | | Yes = 1.5 | |

C. Biology (Subtotal = 5.0)

| C. Biology (Subtotal = 5.0) | Absent | Weak | Moderate | Strong |
|--|---------------|-------------|-----------------|---------------|
| 20. Fibrous roots in channel ¹ | 3 | 2 | 1 | 0 |
| 21. Rooted plants in channel ¹ | 3 | 2 | 1 | 0 |
| 22. Crayfish in stream (exclude in floodplain) | 0 | 0.5 | 1 | 1.5 |
| 23. Bivalves/mussels | 0 | 1 | 2 | 3 |
| 24. Amphibians | 0 | 0.5 | 1 | 1.5 |
| 25. Macrobenthos (record type & abundance) | 0 | 1 | 2 | 3 |
| 26. Filamentous algae; periphyton | 0 | 1 | 2 | 3 |
| 27. Iron oxidizing bacteria/fungus | 0 | 0.5 | 1 | 1.5 |
| 28. Wetland plants in channel ² | 0 | 0.5 | 1 | 2 |

¹ Focus is on the presence of upland plants.

² Focus is on the presence of aquatic or wetland plants.

Total Points = 17.0

Under Normal Conditions, Watercourse is a Wet Weather Conveyance if Secondary Indicator Score < 19 points

Notes :

StreamStats Report

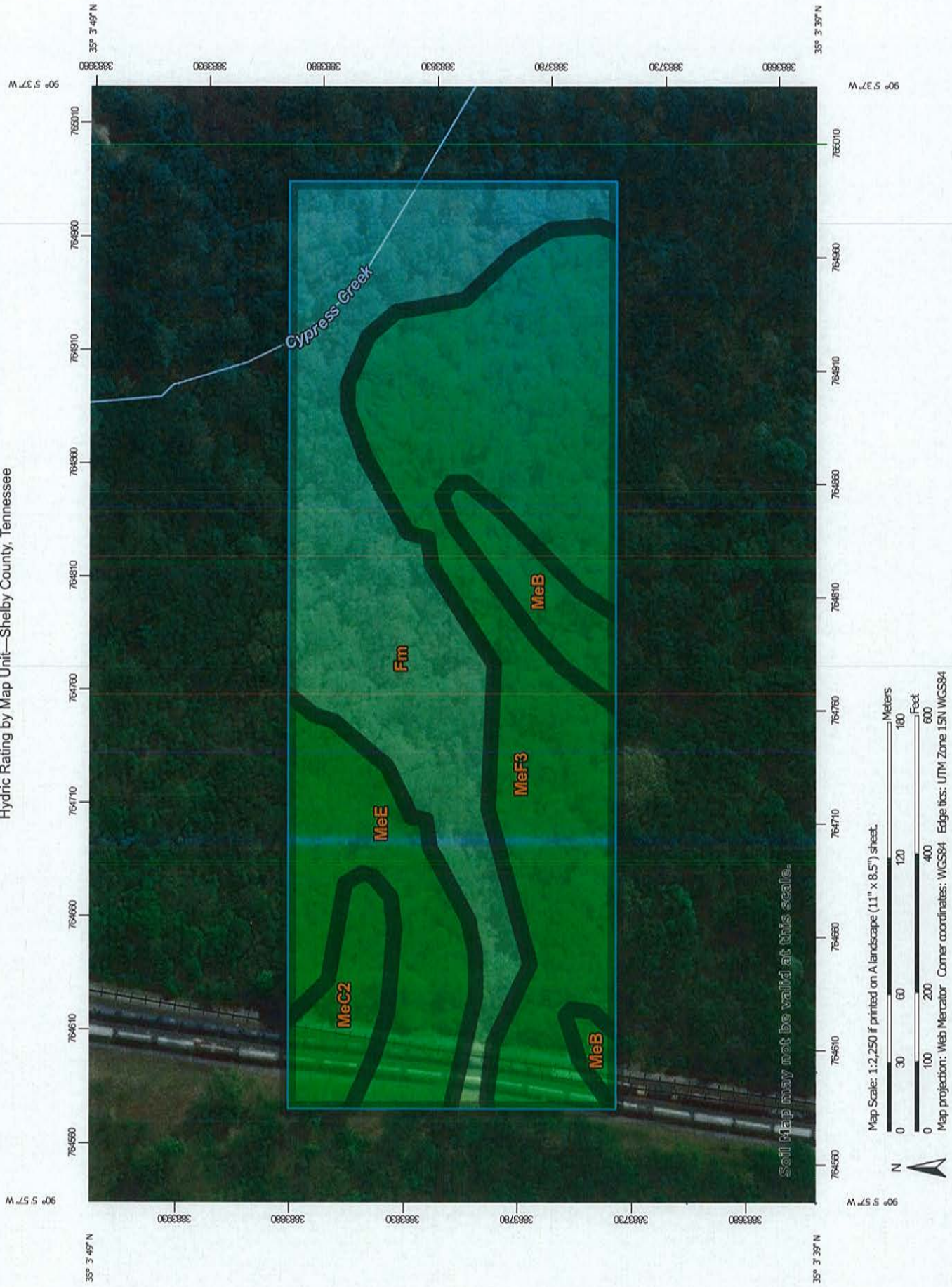
Region ID: TN
Workspace ID: TN20180119162033962000
Clicked Point (Latitude, Longitude): 35.06343, -90.09553
Time: 2018-01-19 10:20:52 -0600



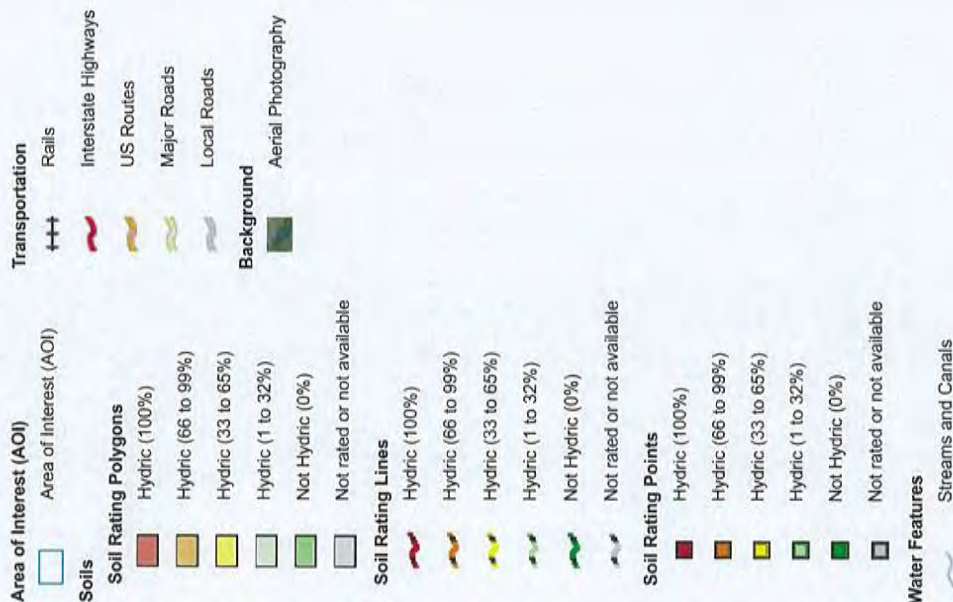
Basin Characteristics

| Parameter Code | Parameter Description | Value | Unit |
|----------------|---|-------|--------------|
| DRNAREA | Area that drains to a point on a stream | 0.08 | square miles |

Hydric Rating by Map Unit—Shelby County, Tennessee



MAP LEGEND



MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Shelby County, Tennessee
Survey Area Data: Version 12, Sep 25, 2017

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 19, 2014—Feb 2, 2017

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydric Rating by Map Unit

| Map unit symbol | Map unit name | Rating | Acres in AOI | Percent of AOI |
|------------------------------------|---|--------|--------------|----------------|
| Fm | Falaya silt loam | 9 | 5.1 | 35.3% |
| MeB | Memphis silt loam, 2 to 5 percent slopes | 0 | 0.8 | 5.4% |
| MeC2 | Memphis silt loam, 5 to 8 percent slopes, eroded | 0 | 0.8 | 5.2% |
| MeE | Memphis silt loam, 12 to 20 percent slopes | 0 | 2.1 | 14.2% |
| MeF3 | Memphis silt loam, 12 to 30 percent slopes, severely eroded | 0 | 5.8 | 39.9% |
| Totals for Area of Interest | | | 14.5 | 100.0% |

CHANNEL 6 INFORMATION

Hydrologic Determination Field Data Sheet
StreamStats Report
USDA Soil Survey

Wet Weather conveyance to Hydrologic Determination Field Data Sheet

Tennessee Division of Water Pollution Control, Version 1.4

| | | |
|---|---|--|
| County: Shelby | Named Waterbody: | Date/Time: 1/25/2018 |
| Assessors/Affiliation: J. Morrison + M. Lee / Brophy-Heineck + Associates | | Project ID: |
| Site Name/Description: Cypress Creek Resiliency Study | | |
| Site Location: S of the intersection of Mitchell Road and Ford Rd. | | |
| USGS quad: SW Memphis | HUC (12 digit): 080102110201 | Lat/Long: 35.05572, -90.08055 35.05455, -90.08178 |
| Previous Rainfall (7-days): 0.78" on 1/22, 0.01" on 1/20 | | |
| Precipitation this Season vs. Normal: very wet wet <u>average</u> dry drought unknown | | |
| Source of recent & seasonal precip data: NDA website | | |
| Watershed Size: 0.04 mi² / 25.6 acres | Photos: (Y) or N (circle) Number See Photo Doc. | |
| Soil Type(s) / Geology: Falaya silt loam (Fm) | | Source: USDA Soil Survey |
| Surrounding Land Use: forested, roadway | | |
| Degree of historical alteration to natural channel morphology & hydrology (circle one & describe fully in Notes): Severe <u>Moderate</u> Slight Absent | | |

Primary Field Indicators Observed

| Primary Indicators | NO | YES |
|--|----|--------|
| 1. Hydrologic feature exists solely due to a process discharge | | WWC |
| 2. Defined bed and bank absent, dominated by upland vegetation / grass | | WWC |
| 3. Watercourse dry anytime during February through April 15th, under normal precipitation / groundwater conditions | | WWC |
| 4. Daily flow and precipitation records showing feature only flows in direct response to rainfall | | WWC |
| 5. Presence of multiple populations of obligate lotic organisms with ≥ 2 month aquatic phase | | Stream |
| 6. Presence of fish (except <i>Gambusia</i>) | | Stream |
| 7. Presence of naturally occurring ground water table connection | | Stream |
| 8. Flowing water in channel and 7 days since last precipitation in local watershed | | Stream |
| 9. Evidence watercourse has been used as a supply of drinking water | | Stream |

NOTE : If any Primary Indicators 1-9 = "Yes", then STOP; absent directly contradictory evidence, determination is complete.

In the absence of a primary indicator, or other definitive evidence, complete the secondary indicator table on page 2 of this sheet, and provide score below.

Guidance for the interpretation and scoring of both the primary & secondary indicators is provided in *TDEC-WPC Guidance For Making Hydrologic Determinations, Version 1.4*

Overall Hydrologic Determination = wet weather conveyance

Secondary Indicator Score (if applicable) = 18.5

Justification / Notes : This channel originates from a pipe south of the Mitchell Road crossing. A large scour hole is located down-gradient of the pipe discharge point. Within the upper portion of the reach, the channel has a defined bed and bank. However, the channel then fans out into a shallow, braided feature.

Wet Weather Conveyance 6

Secondary Field Indicator Evaluation

| A. Geomorphology (Subtotal = <u>9.0</u>) | | | | |
|--|--------|------|----------|--------|
| | Absent | Weak | Moderate | Strong |
| 1. Continuous bed and bank | 0 | 1 | 2 | 3 |
| 2. Sinuous channel | 0 | 1 | 2 | 3 |
| 3. In-channel structure: riffle-pool sequences | 0 | 1 | 2 | 3 |
| 4. Sorting of soil textures or other substrate | 0 | 1 | 2 | 3 |
| 5. Active/relic floodplain | 0 | 1 | 2 | 3 |
| 6. Depositional bars or benches | 0 | 1 | 2 | 3 |
| 7. Braided channel | 0 | 1 | 2 | 3 |
| 8. Recent alluvial deposits | 0 | 0.5 | 1 | 1.5 |
| 9. Natural levees | 0 | 1 | 2 | 3 |
| 10. Headcuts | 0 | 1 | 2 | 3 |
| 11. Grade controls | 0 | 0.5 | 1 | 1.5 |
| 12. Natural valley or drainageway | 0 | 0.5 | 1 | 1.5 |
| 13. At least second order channel on existing USGS or NRCS map | No = 0 | | Yes = 3 | |

| B. Hydrology (Subtotal = <u>5.5</u>) | | | | |
|---|--------|------|-----------|--------|
| | Absent | Weak | Moderate | Strong |
| 14. Subsurface flow/discharge into channel | 0 | 1 | 2 | 3 |
| 15. Water in channel and >48 hours since sig. rain | 0 | 1 | 2 | 3 |
| 16. Leaf litter in channel (January – September) N/A | 1.5 | 1 | 0.5 | 0 |
| 17. Sediment on plants or on debris | 0 | 0.5 | 1 | 1.5 |
| 18. Organic debris lines or piles (wrack lines) | 0 | 0.5 | 1 | 1.5 |
| 19. Hydric soils in stream bed or sides of channel | No = 0 | | Yes = 1.5 | |

| C. Biology (Subtotal = <u>4.0</u>) | | | | |
|--|--------|------|----------|--------|
| | Absent | Weak | Moderate | Strong |
| 20. Fibrous roots in channel ¹ | 3 | 2 | 1 | 0 |
| 21. Rooted plants in channel ¹ | 3 | 2 | 1 | 0 |
| 22. Crayfish in stream (exclude in floodplain) | 0 | 0.5 | 1 | 1.5 |
| 23. Bivalves/mussels | 0 | 1 | 2 | 3 |
| 24. Amphibians | 0 | 0.5 | 1 | 1.5 |
| 25. Macroinvertebrates (record type & abundance) | 0 | 1 | 2 | 3 |
| 26. Filamentous algae; periphyton | 0 | 1 | 2 | 3 |
| 27. Iron oxidizing bacteria/fungus | 0 | 0.5 | 1 | 1.5 |
| 28. Wetland plants in channel ² | 0 | 0.5 | 1 | 2 |

¹ Focus is on the presence of upland plants.

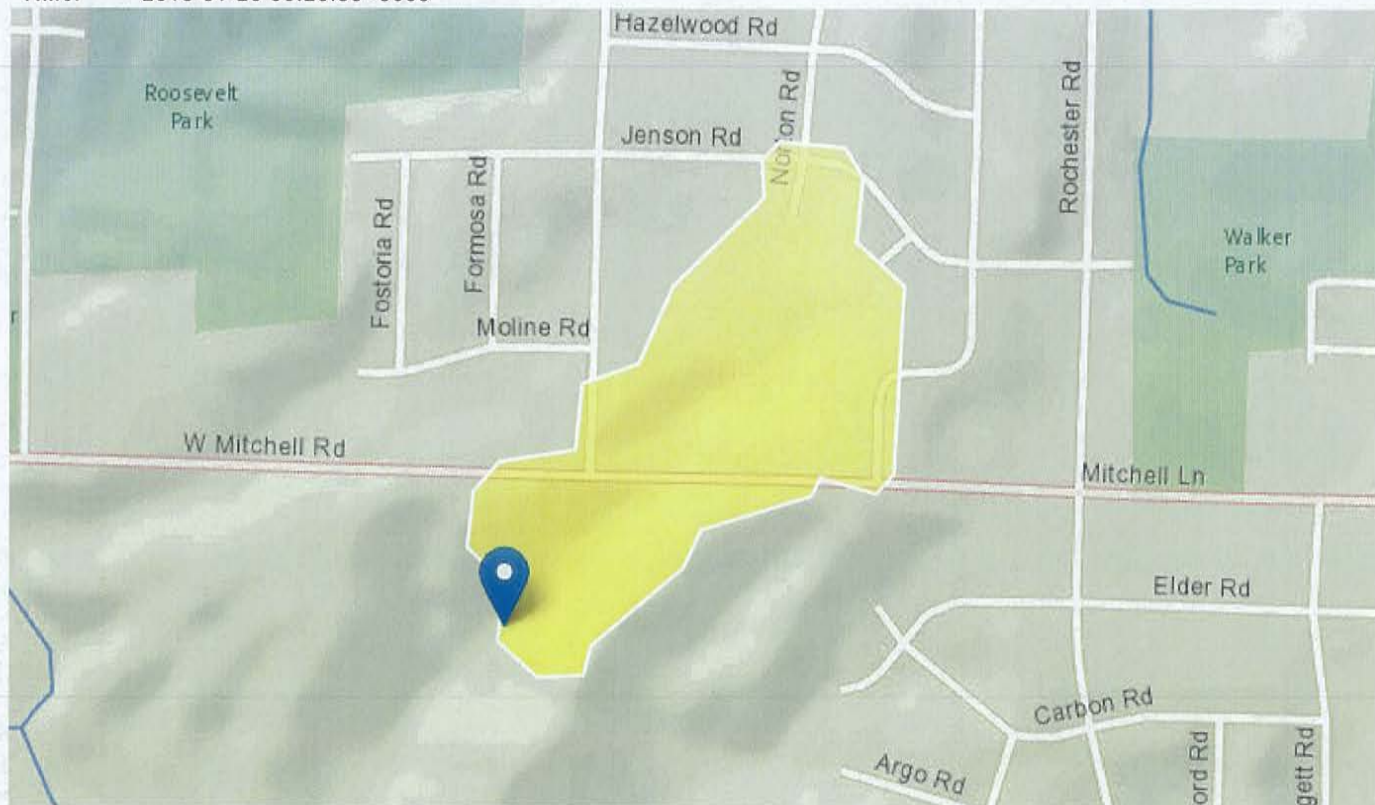
² Focus is on the presence of aquatic or wetland plants.

Total Points = 18.5

Under Normal Conditions, Watercourse is a Wet Weather Conveyance if Secondary Indicator Score < 19 points

Notes: Overall, the upper portion of the reach appears to convey flashy flows. Roots were growing across the channel in multiple locations and debris piles on the up-gradient side of obstructions were common. Down-gradient of the braiding, at coordinates of N35.05455 / W90.08178, is a large headcut. Flowing water was present at the base of the headcut. This location was determined to be the point at which the channel transitions to a stream (brightline point).

StreamStats Report

Region ID: TN**Workspace ID:** TN20180126142545026000**Clicked Point (Latitude, Longitude):** 35.05450, -90.08186**Time:** 2018-01-26 08:26:00 -0600

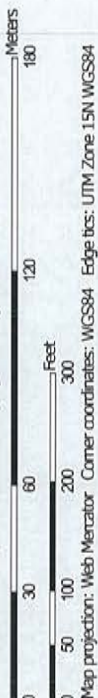
Basin Characteristics

| Parameter Code | Parameter Description | Value | Unit |
|----------------|---|-------|--------------|
| DRNAREA | Area that drains to a point on a stream | 0.04 | square miles |

Hydric Rating by Map Unit—Shelby County, Tennessee

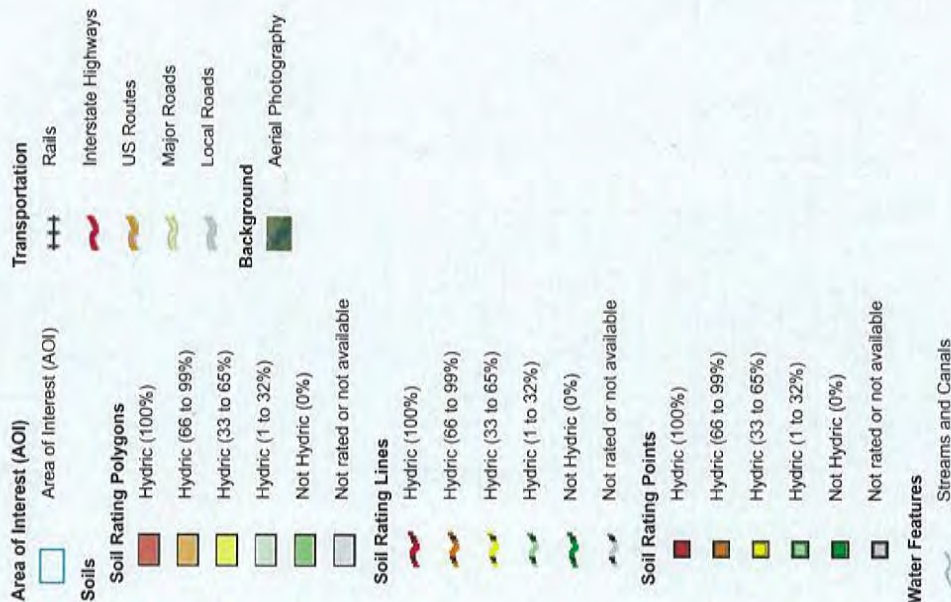


Map Scale: 1:2,040 if printed on A landscape (11" x 8.5") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 15N WGS84

MAP LEGEND



MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Shelby County, Tennessee

Survey Area Data: Version 12, Sep 25, 2017

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 19, 2014—Feb 2, 2017

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydric Rating by Map Unit

| Map unit symbol | Map unit name | Rating | Acres in AOI | Percent of AOI |
|------------------------------------|---|--------|--------------|----------------|
| Fm | Falaya silt loam | 9 | 2.6 | 43.5% |
| MeB | Memphis silt loam, 2 to 5 percent slopes | 0 | 0.1 | 1.8% |
| MeF3 | Memphis silt loam, 12 to 30 percent slopes, severely eroded | 0 | 3.3 | 54.7% |
| Totals for Area of Interest | | | 6.1 | 100.0% |

CALCULATION OF NORMAL WEATHER CONDITIONS

October 2017
November 2017
January 2018

Table 1. Calculation of Normal Weather Conditions

| | Long-term rainfall records | | | | Actual Rainfall | Condition (dry, wet, normal) | Condition value | Month weight value | Product of previous two columns |
|-------------------------------|----------------------------|---------------------------|----------------------|--------------------------|-----------------|------------------------------|-----------------|--------------------|---------------------------------|
| | Month | Minus One Std. Dev. (DRY) | Normal (Mean inches) | Plus One Std. Dev. (WET) | | | | | |
| 1 st prior month * | Sept | 1.12 | 3.09 | 5.06 | 1.61 | normal | 2 | x 3 | 6 |
| 2 nd prior month * | August | 0.91 | 2.88 | 4.85 | 9.29 | wet | 3 | x 2 | 6 |
| 3 rd prior month * | July | 2.61 | 4.59 | 6.57 | 3.91 | normal | 2 | x 1 | 2 |
| | | | | | | | | Sum = | 14 |

Note:

| If sum is: | |
|------------|---|
| 6-9 | then prior period has been drier than normal |
| 10-14 | then prior period has been normal |
| 15-18 | Then prior period has been wetter than normal |

| Condition value: | |
|------------------|---|
| Dry = | 1 |
| Normal = | 2 |
| Wet = | 3 |

Conclusions: Weather conditions for October 2017 have been normal.

| |
|--|
| |
| |
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Table 1. Calculation of Normal Weather Conditions

| | Long-term rainfall records | | | | Actual Rainfall | Condition (dry, wet, normal) | Condition value | Month weight value | Product of previous two columns |
|-------------------------------|----------------------------|---------------------------|----------------------|--------------------------|-----------------|------------------------------|-----------------|--------------------|---------------------------------|
| | Month | Minus One Std. Dev. (DRY) | Normal (Mean inches) | Plus One Std. Dev. (WET) | | | | | |
| 1 st prior month * | October | 2.22 | 3.98 | 5.74 | 4.04 | normal | 2 | x 3 | 6 |
| 2 nd prior month * | Sept | 1.12 | 3.09 | 5.06 | 1.61 | normal | 2 | x 2 | 4 |
| 3 rd prior month * | August | 0.91 | 2.88 | 4.85 | 9.29 | wet | 3 | x 1 | 3 |
| | | | | | | | | Sum = | 13 |

Note:

| If sum is: | |
|------------|---|
| 6-9 | then prior period has been drier than normal |
| 10-14 | then prior period has been normal |
| 15-18 | Then prior period has been wetter than normal |

| Condition value: | |
|------------------|---|
| Dry = | 1 |
| Normal = | 2 |
| Wet = | 3 |

| |
|---|
| Conclusions: Weather conditions for November 2017 have been normal. |
| |
| |
| |
| |
| |

Table 1. Calculation of Normal Weather Conditions

| | Long-term rainfall records | | | | Actual Rainfall | Condition (dry, wet, normal) | Condition value | Month weight value | Product of previous two columns |
|-------------------------------|----------------------------|---------------------------|----------------------|--------------------------|-----------------|------------------------------|-----------------|--------------------|---------------------------------|
| | Month | Minus One Std. Dev. (DRY) | Normal (Mean inches) | Plus One Std. Dev. (WET) | | | | | |
| 1 st prior month * | December | 2.87 | 5.74 | 8.61 | 7.26 | normal | 2 | x 3 | 6 |
| 2 nd prior month * | November | 2.79 | 5.49 | 8.19 | 1.81 | dry | 1 | x 2 | 2 |
| 3 rd prior month * | October | 2.22 | 3.98 | 5.74 | 4.04 | normal | 2 | x 1 | 2 |
| | | | | | | | | Sum = | 10 |

Note:

| If sum is: | |
|------------|---|
| 6-9 | then prior period has been drier than normal |
| 10-14 | then prior period has been normal |
| 15-18 | Then prior period has been wetter than normal |

| Condition value: | |
|------------------|---|
| Dry = | 1 |
| Normal = | 2 |
| Wet = | 3 |

| |
|---|
| Conclusions: Weather conditions for January 2018 have been normal. |
| |
| |
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| |

Appendix O – Wild and Scenic Rivers

South Cypress Creek Watershed and West Junction
Neighborhood Redevelopment

Wild and Scenic Rivers (CEST and EA) – PARTNER

This Worksheet was designed to be used by those “Partners” (including Public Housing Authorities, consultants, contractors, and nonprofits) who assist Responsible Entities and HUD in preparing environmental reviews, but legally cannot take full responsibilities for these reviews themselves. Responsible Entities and HUD should use the RE/HUD version of the Worksheet.

| General requirements | Legislation | Regulation |
|---|---|-----------------|
| The Wild and Scenic Rivers Act provides federal protection for certain free-flowing, wild, scenic and recreational rivers designated as components or potential components of the National Wild and Scenic Rivers System (NWSRS) from the effects of construction or development. | The Wild and Scenic Rivers Act (16 U.S.C. 1271-1287), particularly section 7(b) and (c) (16 U.S.C. 1278(b) and (c)) | 36 CFR Part 297 |
| References | | |
| hudexchange.info/environmental-review/wild-and-scenic-rivers | | |

1. Is your project within proximity of a NWSRS river as defined below?

Wild & Scenic Rivers: These rivers or river segments have been designated by Congress or by states (with the concurrence of the Secretary of the Interior) as wild, scenic, or recreational

Study Rivers: These rivers or river segments are being studied as a potential component of the Wild & Scenic River system.

Nationwide Rivers Inventory (NRI): The National Park Service has compiled and maintains the NRI, a register of river segments that potentially qualify as national wild, scenic, or recreational river areas

☒ No

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Provide documentation used to make your determination, such as a map identifying the project site and its surrounding area or a list of rivers in your region in the Screen Summary at the conclusion of this screen.

☐ Yes, the project is in proximity of a Nationwide Rivers Inventory (NRI) River.

→ Continue to Question 2.

2. Could the project do *any* of the following?

- Have a direct and adverse effect within Wild and Scenic River Boundaries,
- Invade the area or unreasonably diminish the river outside Wild and Scenic River Boundaries, or
- Have an adverse effect on the natural, cultural, and/or recreational values of a NRI segment.

Consultation with the appropriate federal/state/local/tribal Managing Agency(s) is required, pursuant to Section 7 of the Act, to determine if the proposed project may have an adverse effect on a Wild & Scenic River or a Study River and, if so, to determine the appropriate avoidance or mitigation measures.

Note: Concurrence may be assumed if the Managing Agency does not respond within 30 days; however, you are still obligated to avoid or mitigate adverse effects on the rivers identified in the NWSRS

- ☐ No, the Managing Agency has concurred that the proposed project will not alter, directly, or indirectly, any of the characteristics that qualifies or potentially qualifies the river for inclusion in the NWSRS.

→ *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Provide documentation of the consultation (including the Managing Agency's concurrence) and any other documentation used to make your determination.*

- ☐ Yes, the Managing Agency was consulted and the proposed project may alter, directly, or indirectly, any of the characteristics that qualifies or potentially qualifies the river for inclusion in the NWSRS.

→ *The RE/HUD must work with the Managing Agency to identify mitigation measures to mitigate the impact or effect of the project on the river.*

Worksheet Summary

Compliance Determination

Provide a clear description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your region

There are no Wild and Scenic Rivers in Shelby County per the Nationwide Rivers Inventory (NRI) database.

nps.gov/ncrc/programs/rtca/nri/index.html

TN Page: nps.gov/subjects/rivers/tennessee.htm

Last updated Dec 2016

Are formal compliance steps or mitigation required?

☐ Yes

☒ No

Appendix P – Public Meetings Information

South Cypress Creek Watershed and West Junction
Neighborhood Redevelopment



YOU ARE INVITED!

You are invited to attend a **public meeting** hosted by Shelby County and the City of Memphis regarding a federally funded project to improve flood protection along **South Cypress Creek** and plan for the future of the **West Junction** neighborhood. You will have an opportunity to learn about the project, meet the team, and provide input to guide the work moving forward. This will be the first of three public events: future events will be held in late 2017 and early 2018. Please spread the word and encourage friends, family, and neighbors to attend!

Thursday, September 28th
6:00 p.m.
Mitchell High School Cafeteria
658 W Mitchell Rd.

Snacks will be provided!



A large, abstract yellow graphic at the top of the page, consisting of several thick, wavy, parallel lines that create a sense of movement and depth. It is framed by thin black lines at the corners.

YOU ARE INVITED!

You are invited to attend a **public meeting** hosted by Shelby County and the City of Memphis regarding a federally funded project to improve flood protection along **South Cypress Creek** and revitalize the **West Junction** neighborhood. The purpose of this meeting is to solicit input on the initial creek and neighborhood design concepts. These concepts are based on the feedback received at Public Meeting #1, which was held on Tuesday, September 28th, 2017 at Mitchell High School. The third, and final, Public Meeting will be in early 2018.

Tuesday, December 5th 2017
6:00 p.m.
Mitchell High School Cafeteria
658 W Mitchell Rd.

SNACKS WILL BE PROVIDED!

PUBLIC MEETING #2 OUT OF 3

SOUTH CYPRESS CREEK AND WEST JUNCTION NEIGHBORHOOD IMPLEMENTATION DESIGN | RESILIENTSHELBY.COM

A large, abstract blue graphic at the bottom of the page, consisting of several thick, wavy, parallel lines that create a sense of movement and depth. It is framed by thin black lines at the corners.



YOU ARE INVITED!

You are invited to attend a **public meeting** hosted by Shelby County and the City of Memphis regarding a federally funded project to improve flood protection along **South Cypress Creek**. The purpose of this meeting is to discuss strategies for reducing flood risk. This will be the third out of three public events: the first event was held on September 28th, and the second event was held on December 5th. Please spread the word and encourage friends, family, and neighbors to attend!

Thursday, June 14th 2018
5:30 p.m.
Mitchell High School Cafeteria
658 W Mitchell Rd.

Public Meeting #3 out of 3





YOU ARE INVITED!

You are invited to attend a **public meeting** hosted by Shelby County and the City of Memphis regarding a **federally funded project to improve flood protection along South Cypress Creek**. The purpose of this meeting is to discuss strategies for reducing flood risk. This will be a follow-up to the meeting that was held on June 14th. Please spread the word and encourage friends, family, and neighbors to attend!

Thursday, July 26th 2018
5:30 p.m.
Mitchell High School Cafeteria
658 W Mitchell Rd.



YOU ARE INVITED!

You are invited to attend a **public meeting** hosted by Shelby County and the City of Memphis regarding a **federally funded project to improve flood protection along South Cypress Creek**. The purpose of this meeting is to discuss strategies for reducing flood risk. This will be a follow-up to the meeting that was held on June 14th. Please spread the word and encourage friends, family, and neighbors to attend!

Thursday, July 26th 2018
5:30 p.m.
Mitchell High School Cafeteria
658 W Mitchell Rd.



YOU ARE INVITED!

You are invited to attend a **public meeting** hosted by Shelby County and the City of Memphis regarding a **federally funded project to improve flood protection along South Cypress Creek**. The purpose of this meeting is to discuss strategies for reducing flood risk. This will be a follow-up to the meeting that was held on June 14th. Please spread the word and encourage friends, family, and neighbors to attend!

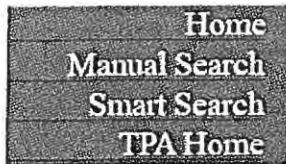
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2 Public Notices matched your query.
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You searched for: county:Shelby|Notice+Public+Meeting
Date Range: Between 11/17/2017 and 11/17/2017.

The following words were omitted from your query for being too common: 'of'.

| County | Date | Public Notice Preview | Publication |
|--------|------------|--|---------------------------------|
| Shelby | 2017/11/17 | NOTICE OF PUBLIC MEETING SHELBY COUNTY NATIONAL DISASTER RESILIENCE GRANT SOUTH CYPRESS CR | Daily News, The (Memphis) |
| Shelby | 2017/11/17 | NOTICE TO INTERESTED OWNERS OF PROPERTY (ZONING RECLASSIFICATION) You will take notice tha | Daily News, The (Memphis) |

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The newspapers of **Tennessee** make public notices from their printed pages available electronically in a single database for the benefit of the public. This enhances the legislative intent of public notice - keeping a free and independent public informed about activities of their government and business activities that may affect them. Importantly, Public Notices now are in one place on the web (www.PublicNoticeAds.com), not scattered among thousands of government web pages.

County: Shelby

Printed In: Daily News, The (Memphis)

Printed On: 2017/11/17

NOTICE OF PUBLIC MEETING

SHELBY COUNTY NATIONAL DISASTER RESILIENCE GRANT SOUTH CYPRESS CREEK/WEST JUNCTION NEIGHBORHOOD DESIGN

Shelby County Government's Office of Resilience and Sasaki Associates, Inc. will hold a Public Hearing to discuss the Shelby County National Disaster Resilience Grant's South Cypress Creek Activity.

The purpose of this public meeting is to solicit input on alternative design concepts for South Cypress Creek and the West Junction Neighborhood. This meeting will be the first public meeting following a neighborhood meeting with South Cypress Creek/West Junction residents which took place on September 28, 2017 at Mitchell High School and solicited resident's comments and input on their neighborhood. The alternative design concepts for the December 5, 2017 meeting were created based on resident's feedback at the September 28, 2017 meeting.

The meeting will be held at the following time and location within the South Cypress Creek and West Junction community:

South Cypress Creek/West Junction Neighborhood Public Meeting

Tuesday December 5, 2017

Mitchell High School Cafeteria - 658 W. Mitchell Road, Memphis, TN 38109

6:00 PM - 8:00 PM

If you plan to attend the public hearing and have special needs, please contact the following individual or TTY at 901-222-2301 by 4:30 p.m. Monday November 25, 2017 and we will work to accommodate you:

Jared Darby, NDR Planning Manager, Office of Resilience, 125 N. Main, Room 443, Memphis, TN 38103, (901) 636-7166, jared.darby@memphistn.gov

Citizen input and public participation is strongly encouraged from all sectors of the Shelby County community. Shelby County does not discriminate on the basis of race, color, national origin, sex, religion, age or disability in employment or the provision of services. Equal opportunity/equal access provider.

Para mas informaci??n en Espa??ol, por favor llame al 901-222-2088.

Mark H. Luttrell, Jr.

Mayor

Jim Vazquez, Administrator

Shelby County Office of Resilience

Nov. 17, 2017?????Mmd59384

Public Notice ID:

**AVISO DE REUNIÓN PÚBLICA
CONCESIÓN NACIONAL DE RESILIENCIA ANTE
DESASTRES DE SHELBY COUNTY
DISEÑO DEL VECINDARIO DE SOUTH
CYPRESS CREEK/WEST JUNCTION**

Una Oficina de Resiliencia del Gobierno del Condado de Shelby y Sasakawa Architects, Inc. llevarán a cabo una Audiencia Pública para analizar la solicitud de South Cypress Creek del Subsidio Nacional de Resiliencia por parte del Condado de Shelby.

El objetivo de esta reunión pública es solicitar comentarios sobre el concepto de diseño alternativo para el Vecindario de South Cypress Creek/West Junction. Ésta será la primera reunión pública que se hará después de una reunión de vecinos con los residentes de South Cypress Creek/West Junction que tuvo lugar el 28 de septiembre del 2017 en la Escuela Secundaria Mitchell, en donde se solicitó que los residentes dieran sus opiniones sobre el vecindario. Los conceptos de diseño alternativo para la reunión del 5 de diciembre del 2017 se crearon en base a los comentarios de los residentes en la reunión del 28 de septiembre del 2017.

La reunión se llevará a cabo a la siguiente hora y lugar dentro de la comunidad de South Cypress Creek y West Junction:

Audiencia Pública del Vecindario de South Cypress Creek/West Junction
Martes, 5 de diciembre del 2017
Cafetería del Mitchell High School -
658 W. Mitchell Road, Memphis, TN 38109
6:00 PM - 8:00 PM

Se anima a asistir a la reunión pública y tiene necesidades especiales, póngase en contacto con la persona mencionada más adelante o TTY al 901-2-2301 antes de las 4:30 PM el lunes, 25 de noviembre del 2017, y así sea lo posible para acomodarlo.

Jared Darby, NDR Planning Manager, Office of Resilience, 125 N. Main, Suite 443, Memphis, TN 38103, (901) 636-7166, jared.darby@memphiscity.gov

La participación de los ciudadanos y la participación pública se recomiendan ampliamente en todos los sectores de la comunidad del Condado de Shelby. El Condado de Shelby no discrimina por motivos de raza, color, religión, sexo, nacionalidad, edad o discapacidad en el empleo o la prestación de servicios. Es un proveedor de igualdad de oportunidades/accesibilidad.

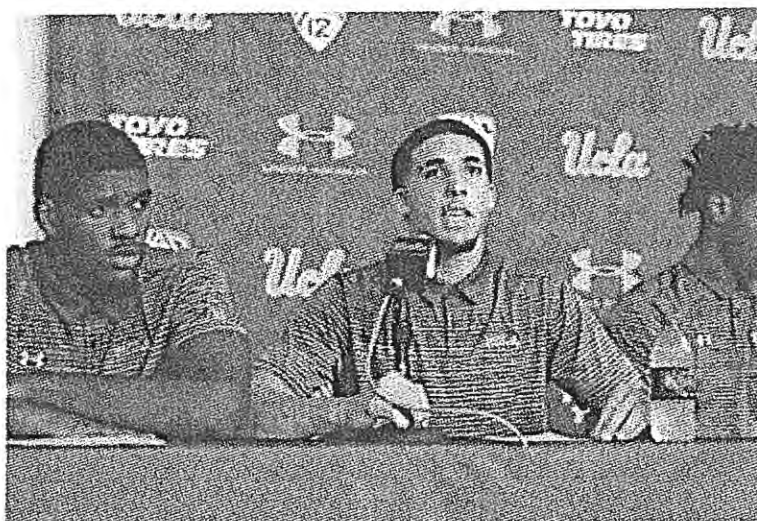
Para más información en español, por favor llame al 901-222-2088.

Luttrell, Jr.

Administrador
de Resiliencia del Condado de Shelby

UCLA suspende a jugadores arrestado en China

UCLA Suspends Players Arrested in China



Los estudiantes de primer año de UCLA, Angelo Ball, Cody Riley y Jalen Hill han sido suspendidos indefinidamente del equipo de baloncesto después de regresar de un viaje a China, donde fueron detenidos por hurto en tiendas.

"Tendrán que ganarse el camino de regreso", dijo el entrenador de UCLA, Steve Alford, durante una conferencia de prensa.

Alford dijo que los jugadores no viajarán, ni se vestirán para los juegos de ruta o participarán en prácticas mientras la escuela realiza una revisión de la situación.

Los jugadores fueron interrogados sobre supuestamente robarse lentes de sol de una tienda Louis Vuitton al lado del hotel del equipo en Hangzhou, donde los Bruins se habían estado hospedando antes de partir hacia Shanghai para enfrentar a Georgia Tech. Fueron puestos en libertad bajo fianza y se habían estado hospedando en un hotel junto al lago en Hangzhou desde entonces.

El presidente Trump, que ya estaba en un viaje a Asia, habló con el presidente Xi Jinping de China sobre el incidente y los jugadores pudieron regresar a Estados Unidos.

"Estos son buenos jóvenes que han ejercido un inexcusable lapso de juicio, y ahora tienen que vivir con eso", dijo Alford.

Los tres jugadores leyeron declaraciones de disculpas en la conferencia de prensa.

Ball, hermano de la estrella de Los Angeles Lakers Lonzo Ball, dijo: "No ejercite mi mejor juicio y lo siento por eso".

"Esto no define quien soy", agregó.

"Mi familia me crió mejor que eso".

El presidente Trump había tuído acerca de las gracias el día anterior.

Los tres jugadores, Alford y el entrenador de la UCLA, Dan Gauran, se dieron las gracias al presidente.

"También me gustaría agradecer al presidente Trump y al gobierno de Estados Unidos por la ayuda que me dieron también", dijo Ball.

Riley dijo: "Al presidente Trump le agradezco por tomarse el tiempo de venir en nuestro favor. Realmente necesitamos que nos ayuden".

"Gracias al gobierno de los Estados Unidos y al presidente Trump por sus esfuerzos para llevarnos a casa", dijo Hill.

Guerrero ofreció algunos detalles sobre el incidente. Dijo que los tres jugadores se robaron de tres tiendas, fueron arrestados y pagaron fianza de \$2,200. Ese dinero fue devuelto desde que se retiraron los cargos.

Dijo que después de ser arrestados los jugadores tuvieron que entregar sus pasaportes y estaban bajo restricciones de viaje. Pero el gobierno no los confinó a su hotel. Esa fue la decisión de la escuela.

Las cinco personas en la conferencia de prensa también agradecieron a la policía china y al gobierno por manejar la situación.

Riley dijo que estaba "avergonzado y apenado".

"Asumo toda la responsabilidad por el error que cometí: hurto en tiendas", dijo. "Se que esto va mas allá de un hurto en mi escuela. Decepcioné a mi país".

ESPANOL

UC
jugac

La Oficina de Resiliencia del Gobierno del Condado de Shelby y Sasaki Associates, Inc. llevarán a cabo una Audiencia Pública para analizar la Actividad South Cypress Creek del Subsidio Nacional de Resiliencia por Desastre del Condado de Shelby.

El objetivo de esta reunión pública es solicitar comentarios sobre conceptos de diseño alternativo para el Vecindario de South Cypress Creek/West Junction. Ésta será la primera reunión pública que se hará después de una reunión de vecinos con los residentes de South Cypress Creek/West Junction que tuvo lugar el 28 de septiembre del 2017 en la Escuela Secundaria Mitchell, en donde se solicitó que los residentes dieran sus opiniones sobre su vecindario. Los conceptos de diseño alternativo para la reunión del 5 de diciembre del 2017 se crearon en base a los comentarios de los residentes en la reunión del 28 de septiembre del 2017.

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658 W. Mitchell Road, Memphis, TN 38109
6:00 PM - 8:00 PM

Si planea asistir a la reunión pública y tiene necesidades especiales, comuníquese con la persona mencionada más adelante o TTY al 901-222-2301 antes de las 4:30 PM el lunes, 25 de noviembre del 2017, y haremos lo posible para acomodarlo:

Jared Darby, NDR Planning Manager, Office of Resilience, 125 N. Main, Room 443, Memphis, TN 38103, (901) 636-7166, jared.darby@memphistn.gov

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Para más información en español, por favor llame al 901-222-2088.

Mark H. Luttrell, Jr.
Alcalde

Jim Vazquez, Administrador
Oficina de Resiliencia del Condado de Shelby

UCLA Susp



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Los tres jugadores de disculpas de prensa.

Ball, hermano de Angeles Lakers. "Lo ejercite mi mejor jugador".

*Esto no define a

Public Notices

publication (or posting); or
(B) Sixty (60) days from the date the creditor received an actual copy of the Notice to Creditors, if the creditor received the copy of the notice less than sixty (60) days prior to the date that is four (4) months from the date of first publication (or posting) as described in (1)(A); or
(2) Twelve (12) months from the decedent's date of death.
This 23rd day of May, 2018.
Blanchard E. Tual, Executor
Attorney for the Estate.
Blanchard E. Tual
May 25, June 1, 2018 Cnd62924

NOTICE TO CREDITORS

Docket: PD11A29
In Re the Matter of: Margaret R. Horn
Notice is hereby given that on the 23rd day of May, 2018, Letters Testamentary in respect of Margaret R. Horn, who died May 10, 2018, were issued to the undersigned by the Probate Court of Shelby County, Tennessee.
All persons, resident and non-resident, having claims, matured or unmatured, against the estate are required to file the same with the Clerk of the above named Court on or before the earlier of the dates presented in (1) or (2), otherwise their claims will be forever barred.

(1)(A) Four (4) months from the date of the first publication (or posting, as the case may be) of this notice if the creditor received an actual copy of this Notice to Creditors at least sixty (60) days before the date that is four (4) months from the date of the first publication (or posting); or
(B) Sixty (60) days from the date the creditor received an actual copy of the Notice to Creditors, if the creditor received the copy of the notice less than sixty (60) days prior to the date that is four (4) months from the date of first publication (or posting) as described in (1)(A); or
(2) Twelve (12) months from the decedent's date of death.
This 23rd day of May, 2018
William M. Hope, Executor
Attorney for the Estate.
Jon W. Smith
May 25, June 1, 2018 Cnd62925

IN THE JUVENILE COURT OF MEMPHIS AND SHELBY COUNTY, TENNESSEE

Docket No.: DD0079

IN THE MATTER OF:
Tawares Jones DOB 9/9/2002
Christopher Franklin DOB 2/1/2008
Kareem Askew DOB 12/12/2012
ORDER OF PUBLICATION
In this cause, it appearing to the Court from the allegations of the petition filed, and duly sworn to, that the residence of the Respondent Tawares Jones is unknown and cannot be ascertained by diligent search and inquiry; and that the whereabouts of the Respondent cannot be found or the post office address of said parent cannot be ascertained, and therefore, the ordinary process of law cannot be served upon said parent, it is ordered that Respondent enter his appearance herein on the first Wednesday in September, the date being September 5, 2018 at 9:00 a.m. and plead or answer to the petition filed herein, a copy of which may be obtained from the clerk of Court, JUDGMENT BY DEFAULT will be taken against you should you fail to appear and answer, and that a copy of this order be published for four consecutive weeks in the Daily News, a newspaper published in Shelby County, Tennessee.
May 25, June 1, 8, 15, 2018 Cnd62930

Bid Notices

Shelby County

**REQUEST FOR PROPOSAL
PAINT AIRFIELD MARKINGS**
The Millington Airport Authority is soliciting bids to remove and repaint two (2) Taxiway Centerlines, three (3) Taxiway Edge Lines, three (3) Taxiway Lead Lines, two (2) sets of Threshold Bars & Markings, and twenty-two (22) Runway Markings at the Millington Memphis Airport. Proposals and accompanying bids should be emailed to leavitt@millingtonairportauthority.com or mailed to 8182 Hornet Ave., Millington, TN 38053 by June 15, 2018 at 10:00 AM, at which time they will be opened and read aloud.
Specifications: The Contractor shall provide all material, labor, tools, and equipment to: (1.) Remove approx. 72,924 SF of pavement markings, (2.) Apply 43,480 SF of TTP-1952E, Type II, Reflective White Runway Markings with TT-B-1325D, Type I, Gradation A, glass beads, (3.) Apply 9,601 SF of TTP-1952E, Type II, Reflective Yellow Taxiway Centerline, Lead-in, & Edge Lines with TT-B-1325D, Type I, Gradation A, glass beads, (4.) Apply 20,278 SF of TTP-1952E, Type II, Black Contrast Outlining. All markings shall be in accordance with FAA Advisory Circular 150/5340-11, and FAA Specification P-620. All work shall be completed within 20 calendar days from the acceptance of contractor proposal and issuance of a Notice to Proceed.
Runway and Taxiway Markings shall be performed in accordance with the Project Layout/Marking Plan provided by the Millington Airport Authority. Contractor shall follow the requirements of the safety notes included in the plans therein. Work shall be performed only during times when weather conditions are acceptable and work is arranged prior with the Authority. Drawings and Specifications may be examined at the Millington-Memphis Airport, 8182 Hornet Avenue, Millington, TN 38053. (901) 872-7495, or obtained digitally from the Authority.
All bidders, including the successful bidder, shall comply with City, County and State provisions in law relative to work covered by this legal notice including licensing and/or permit laws. All bidders must be licensed contractors to perform the type of construction herein described as required by Tennessee Code Annotated, Title 82, Chapter 6. No bid may be withdrawn by the bidder within sixty (60) days after actual date of opening thereof.
The Millington Airport Authority, in accordance with Title VIII of the Civil Rights Act of 1964 (42 U.S.C. 36001) and 49 CFR, Part 26, Non-Discrimination in Federally Assisted Programs of the Department of Transportation, hereby notifies all bidders that it will affirmatively ensure that disadvantaged business enterprises are afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, sex, or national origin in consideration for and award.
Bids submitted should contain the following information: Millington Airport Authority, Bid to Paint Airfield Markings, TAD Project #75-555-0772-18, Millington, TN 38053. Submitted By: (Name of Bidder with Bidder's Current TN Contractor's License No.)
The Authority reserves the right to reject any and all bids, to waive any formalities or irregularities in the bids received, and to accept the bid which is deemed most favorable at the time and under the conditions stipulated. Millington Airport Authority does not discriminate on the basis of race, creed, color, national origin, sex, religion or handicap status in employment or the provisions of services.
May 25, 2018 Bnd62933

ALL INTERESTED RESPONDERS

The Shelby County Board of Education will accept written bids for IFB# Lawn Mower Equipment (Turf Tiger II) Scag Mowers.
Visit our website for additional information: www.scsk12.org/Departments/ProcurementServices/IFB.
Questions concerning bids should be addressed to Procurement Services at procurementservices@scsk12.org.
Thank you for your interest and responses.
May 25, 2018 Bnd62938

Misc. Notices

Shelby County

**NOTICE TO INTERESTED OWNERS
OF PROPERTY
(PLANNED DEVELOPMENT)**
Notice is hereby given that a Public Hearing will be held by the City Council

of the City of Memphis in the Council Chambers, First Floor, City Hall, 125 North Main Street, Memphis, Tennessee 38103 on Tuesday, June 5, 2018 at 3:30 P.M. in the matter of amending the Zoning Map of the City of Memphis, being Chapter 28, Article IV of the Code of Ordinances, City of Memphis, Tennessee, as amended, as follows:
CASE NUMBER: PD 18-10
LOCATION: At the southwest and southeast corner of Reale Street and Wagner Place, at the northwest and northeast corner of Wagner Place and Pontotoc Avenue
COUNCIL DISTRICTS: District 6, Super District 8 - Positions 1, 2, and 3
OWNER/APPLICANT: One Beale LLC, Center City Revenue Finance Corporation, Carlisle Hotels Inc., Front Street, Dovo LLC / Carlisle Corporation
REPRESENTATIVE: SR Consulting, LLC
Cindy Reaves
EXISTING ZONING: PD 15-308, PD 15-06, BOA 06-40, and South Main Street
REQUEST: Expansion of the One Beale Planned Development
AREA: +/- 5,265 acres total (entire development)
RECOMMENDATIONS: Memphis and Shelby County Office of Planning and Development: **Approval with conditions**
Memphis and Shelby County Land Use Control Board: **Approval with conditions**

NOW, THEREFORE, you will take notice that on Tuesday, June 5, 2018, at 3:30 P.M. the City Council of the City of Memphis, Tennessee will be in session at the City Hall, Council Chambers, 125 North Main Street, Memphis, Tennessee 38103 to hear remonstrance or protests against the making of such changes; such remonstrance or protests must be by personal appearance, or by attorneys, or by petition, and then and there you will be present if you wish to remonstrate or protest against the same.

This case will also be heard at the Planning and Zoning Committee on the same day with the specific time to be determined prior to the meeting date and posted on the City of Memphis website.
THIS THE May 16, 2018
BERLIN BOTO
CHAIRMAN OF COUNCIL

ATTEST:

CANDI BURTON
CITY COMPTROLLER
May 25, 2018 Mnd62799



NOTICE OF INTENT TO EXCEED CERTIFIED TAX RECAPTURE RATE

The City of Bartlett will conduct a public hearing on June 12, 2018 at 7:00 p.m., on the city's intent to exceed the certified property tax recapture rate. The recapture rate recoups the unutilized portion of an appeals allowance included in the 2017 certified tax rate, pursuant to Tenn. Code Ann. §67-5-1701. This public hearing will be held at Bartlett City Hall, 6400 Stage Road, Bartlett, TN 38134. The certified recapture rate as defined by T.C.A. §67-5-1701 is \$1,813 per \$100 of assessed valuation. The City's proposed FY 2018-2019 budget, if adopted, will require a proposed tax levy of \$1.83 per \$100 of assessed valuation.
For further information, contact Dick Priebus, Finance Director (901) 385-1090.
May 25, 2018 Mnd62574

**NOTICE OF PUBLIC MEETING
SHELBY COUNTY NATIONAL
DISASTER RESILIENCE GRANT
SOUTH CYPRESS CREEK/WEST
JUNCTION NEIGHBORHOOD DESIGN**
Shelby County Government's Office of Resilience and Sakaki Associates, Inc. will hold a Public Hearing to discuss the Shelby County National Disaster Resilience Grant's South Cypress Creek Activity.
The purpose of this public meeting is to present a design concept for flood control along South Cypress Creek com-

patible with the established National Disaster Resilience (NDR) Grant and to solicit input on the design concept for South Cypress Creek and the West Junction Neighborhood. This meeting will be the third in a series of public meetings which have been held at Mitchell High School to solicit comments and input on the South Cypress Creek Project under the NDR Grant. The design concept for the mitigation of future flooding along South Cypress Creek follows the concepts outlined in the NDR Grant award. Future meetings will occur as the project moves forward in both design and implementation. The meeting will be held at the following time and location within the South Cypress Creek and West Junction community:
South Cypress Creek/West Junction Neighborhood Public Meeting
Thursday June 14, 2018
Mitchell High School Cafeteria - 656 W. Mitchell Road, Memphis, TN 38109
5:30 PM - 7:00 PM

If you plan to attend the public hearing and have special needs, please contact the following individual or TTY at 901-222-2801 by 4:30 p.m. Wednesday June 6, 2018 and we will work to accommodate you.

Jared Darby, NDR Planning Manager, Office of Resilience, 125 N. Main, Room 443, Memphis, TN 38103. (901) 536-7166. jared.darby@memphis.gov
Citizen input and public participation is strongly encouraged from all sectors of the Shelby County community. Shelby County does not discriminate on the basis of race, color, national origin, sex, religion, age or disability in employment or the provision of services. Equal opportunity/equal access provided.
Para más información en Español, por favor llame al 901.222.2801.

Mark H. Luttrell, Jr., Mayor
Jim Vazquez, Administrator
Shelby County Office of Resilience
May 25, 2018 Mnd62870

NOTICE TO THE PUBLIC

The following person(s) has asked the City of Memphis Alcohol Commission for permission to sell beer for OFF premise consumption.

APPLICANT: East Memphis Investments LLC
DBA: East Memphis Investments LLC

LOCATION: 5521 Poplar
Anyone desiring to circulate a petition FOR or AGAINST said establishment selling beer at this location must secure the petition blanks from the undersigned Commission at 2714 Union Ave. Extended, 1st Floor.
Must be filed no later than Tuesday, June 5, 2018.

Jared Johnson, Chairman
Barry Chase, Member
Sherman Greer, Member
Erma Hayslett, Member
Thomas O'Malley, Member
Renee Poe, Member
Billy Post, Member
Steven Reid, Member
Johnnie Wallace, Member

Aubrey J. Howard,
Executive Secretary
City of Memphis Alcohol Commission
May 25, 2018 Mnd62917

**Notice of Finding of No Significant Impact and
Notice of Intent to Request a Release of Funds**

**NOTICE OF FINDING OF NO
SIGNIFICANT IMPACT AND
NOTICE OF INTENT TO REQUEST
RELEASE OF FUNDS**
Date of Publication: May 25, 2018
City of Memphis
Division of Housing and Community Development
170 N. Main Street
Memphis, TN 38103
(901) 576-7454
These notices shall satisfy two separate but related procedural requirements for activities to be undertaken by the City of Memphis.

REQUEST FOR RELEASE OF FUNDS
On or about June 11, 2018, the City of Memphis will submit a request to the U.S. Department of Housing and Urban Development (HUD) for the release of HOME Investment Partnership Program funds under Section 24 of the U.S. Housing Act of 1937, to undertake a project

known as Tillman Cove Acquisition and Redevelopment Project for the purpose of redeveloping the property into an estimated 150 units of rental housing. The City will work with a development partner to redevelop the property as an affordable rental housing development.

FINDING OF NO SIGNIFICANT IMPACT

The City of Memphis has determined that the project will have no significant impact on the human environment. Therefore, an Environmental Impact Statement under the National Environmental Policy Act of 1969 (NEPA) is not required. Additional project information is contained in the Environmental Review Record (ERR) on file at the City of Memphis, Division of Housing and Community Development, 170 North Main Street, Memphis, TN 38103, and may be examined or copied weekdays 8:00 A.M. to 5:00 P.M.

PUBLIC COMMENTS

Any individual, group, or agency may submit written comments on the Environmental Review Record to the City of Memphis, 170 North Main Street, Memphis, TN 38103. All comments received by June 10, 2018 will be considered by the City of Memphis prior to authorizing submission of a request for release of funds. Comments should specify which Notice they are addressing.

ENVIRONMENTAL CERTIFICATION
The City of Memphis certifies to HUD that Paul A. Young, Certifying Officer, in his capacity as Director, consents to accept the jurisdiction of the Federal Courts if an action is brought to enforce responsibilities in relation to the environmental review process and that these responsibilities have been satisfied. HUD's approval of the certification satisfies its responsibilities under NEPA and related laws and authorities and allows the City of Memphis to use the program funds.

OBJECTIONS TO RELEASE OF FUNDS
HUD will accept objections to its release of funds and the City of Memphis certification for a period of fifteen days following the anticipated submission date or its actual receipt of the request (whichever is later) only if they are on one of the following bases: (a) the certification was not executed by the Certifying Officer of the City of Memphis; (b) the City of Memphis has omitted a step or failed to make a decision or finding required by HUD regulations at 24 CFR part 58; (c) the grant recipient or other participants in the development process have committed funds, incurred costs or undertaken activities not authorized by 24 CFR Part 58 before approval of the release of funds; or (d) another Federal agency acting pursuant to 40 CFR Part 1504 has submitted a written finding that the project is unsatisfactory from the standpoint of environmental quality. Objections must be prepared and submitted in accordance with the required procedures (24 CFR Part 58, Sec. 58.76) and shall be addressed to the HUD Regional Office at 40 Marietta Street, Room 400, Atlanta, GA 30303-2906. Potential objectors should contact HUD to verify the actual last day of the objection period.

Paul A. Young, Director
May 25, 2018 Mnd62919

Public Auction

June 7, 2018 12pm
Call Clay Towing & Recovery LLC
169 Scott St.
Memphis, TN 38112
901-456-0875
16 Ford Focus 1FADP3F226G222500
05 Nissan Altima
1N4BL11D25C224390
11 Chev HHR 3GNBAF4W26S509569
07 PT Cruiser 3A4FY48B077529259
13 Buick Verano
1G4PR5SK6D4166646
10 Dodge Charger
2B3CA3CV9AH187482
12 Dodge Avenger
1C3CDZAB2CN324312
09 Mazda
CK7 JM3ER293690219633
07 Ford Explorer
1FMEU75E57UA74990
83 Buick Regal
1G4AJ69A6DH984905
May 25, 2018 Mnd62920

Public Auction

June 7, 2018 12pm
Call Clay Towing & Recovery LLC
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Memphis, TN 38112
901-456-0875
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05 Nissan Altima
1N4BL11D25C224390
11 Chev HHR 3GNBAF4W26S509569
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CK7 JM3ER293690219633
07 Ford Explorer
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83 Buick Regal
1G4AJ69A6DH984905
May 25, 2018 Mnd62920

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AVISO DE REUNIÓN PÚBLICA
CONCESIÓN NACIONAL DE RESILIENCIA ANTE DESASTRES DE SHELBY COUNTY
DISEÑO DEL VECINDARIO DE SOUTH CYPRESS CREEK/WEST JUNCTION

La Oficina de Resiliencia del Gobierno del Condado de Shelby y Sasaki Associates, Inc. llevarán a cabo una Audiencia Pública para analizar la Actividad South Cypress Creek del Subsidio Nacional de Resiliencia Ante Desastres del Condado de Shelby.

El objetivo de esta reunión pública es presentar un concepto de diseño para el control de inundaciones a lo largo de South Cypress Creek que sea compatible con la Concesión Nacional de Resiliencia Ante Desastres (National Disaster Resilience Grant/NDR, por sus siglas en inglés) y solicitar comentarios sobre el concepto de diseño para el Vecindario de South Cypress Creek/West Junction (South Cypress Creek and the West Junction Neighborhood). Esta reunión será la tercera de una serie de reuniones públicas que se han celebrado en Mitchell High School para solicitar comentarios e ideas sobre el Proyecto de South Cypress Creek bajo la Subvención de la NDR. El concepto de diseño para la mitigación de futuras inundaciones a lo largo de South Cypress Creek sigue los conceptos delineados en la Concesión de Subvenciones de la NDR. Reuniones futuras ocurrirán a medida que el proyecto avance tanto en el diseño como en la implementación.

La reunión se llevará a cabo a la siguiente hora y lugar dentro de la comunidad de South Cypress Creek y West Junction:

Reunión Pública del Vecindario de South Cypress Creek/West Junction
Jueves, 14 de junio del 2018
Cafetería del Mitchell High School - 658 W. Mitchell Road, Memphis, TN 38109
5:30 PM - 7:00 PM

Si planea asistir a la reunión pública y tiene necesidades especiales, comuníquese con la persona mencionada más adelante o TTY al 901-222-2301 antes de las 4:30 PM el miércoles, 6 de junio del 2018, y haremos lo posible para acomodarlo:

Jared Darby, NDR Planning Manager, Office of Resilience, 125 N. Main, Room 443, Memphis, TN 38103, (901) 636-7166, jared.darby@memphistn.gov

La participación de los ciudadanos y la participación pública se recomienda encarecidamente en todos los sectores de la comunidad del Condado de Shelby. El Condado de Shelby no discrimina por motivos de raza, color, origen nacional, sexo, religión, edad o discapacidad en el empleo o la prestación de servicios. Es un proveedor de igualdad de oportunidades/acceso equitativo.

Para más información en español, por favor llame al 901-222-2088.

Mark H. Luttrell, Jr.
Alcalde

Jim Vázquez, Administrador
Oficina de Resiliencia del Condado de Shelby

Unai Emery es el nuevo entrenador del Arsenal

Unai Emery Becomes New Coach at Arsenal

El Arsenal anunció la llegada del técnico español Unai Emery como reemplazo de Arsène Wenger, quien dejó el club la pasada semana después de 22 años.

Emery, de 46 años, que guió recientemente a Paris Saint-Germain a los títulos de liga, Copa y Copa de la Liga en Francia, asegura que está "muy emocionado" por poder "empezar un nuevo capítulo en la historia del Arsenal".

"Estoy encantado de llegar a uno de los mejores clubes del mundo. El Arsenal es amado y querido en todo el planeta por su estilo de juego, su compromiso por los futbolistas jóvenes y su estado de primera categoría", declaró el entrenador vasco.

"Estoy tremendamente emocionado de que me hayan dado la responsabilidad de empezar un nuevo capítulo en la historia del Arsenal y con muchas ganas de dar alegrías a todos aquellos que aman este club", añadió.

Unai Emery, que tiene la difícil tarea de reemplazar en el banquillo de los Gunners a toda una leyenda como Arsène Wenger, el que fue el técnico las últimas 22 temporadas, fue, según el consejero delegado de Arsenal, la elección "unánime" de la junta directiva.

"Unai tiene un currículum excelente; ha desarrollado a algunos de los futbolistas jóvenes con más talento de Europa y hace un fútbol emocionante que encaja a la perfección con lo que quiere el Arsenal", indicó Ivan Gazidis, CEO del conjunto del norte de Londres.

"Creemos que es la persona indicada para guiar al club hacia adelante. Hemos llevado a cabo una búsqueda exhaustiva y todos los candidatos con los que nos



hemos reunido estaban interesados en el puesto. Sin embargo, la elección unánime era Unai", añadió el director ejecutivo.

El antiguo entrenador de Sevilla - guió al equipo andaluz a tres triunfos consecutivos en la Liga Europa- no era uno de los favoritos para el puesto, y se rumoreaba que el elegido sería el español Mikel Arteta, antiguo jugador de Arsenal y actual ayudante de Pep Guardiola en Manchester City, o el italiano Massimiliano Allegri, técnico de Juventus.

MEXCO

Iniesta firma con el club japonés Vissel Kobe

Iniesta Signs with Japanese Club Vissel Kobe

Como ha confirmado el propio jugador en sus redes sociales, Andrés Iniesta se comprometió para seguir su carrera en Japón con el Vissel Kobe, club nipón con el que firmará por tres temporadas. El Vissel, club propiedad de Hiroshi Mikitani, ya anunció la incorporación del centrocampista manchego.

Después de romper las negociaciones con el Chongqing Dangdai Lifan de China, Iniesta apostó por una vía más convencional: el Vissel Kobe es propiedad del dueño del patrocinador principal del Barça, Rakuten y el mismo club azulgrana, que tiene firmado un contrato vitalicio con Iniesta, han tutelado en cierta medida este proceso que acaba con Iniesta en la Japan League, que además está a punto de celebrar su vigésimo quinto aniversario.



De esta forma, Iniesta deja atrás su legendaria carrera en el Barcelona tras 22 años en el club, después de haber logrado 32 títulos, entre ellos cuatro Ligas de Campeones, y se une a un club sensación del Japón que ya tiene otra vieja estrella europea en sus filas: el atleta alemán Lukas Podolski.

45

El Milán podría perderse Europa por Fair Play financiero

Milan May Get Excluded from Europe due to Financial Fair Play

El Milán podría ser excluido de la próxima edición de la Liga Europa por no cumplir con las reglas del "fair play financiero" de la UEFA en las últimas tres temporadas. El máximo organismo del fútbol europeo rechazó una propuesta que presentó el Milán en diciembre para encontrar una solución a los desajustes financieros.

La UEFA duda de la capacidad del club para refinanciar préstamos por un valor de 300 millones de euros (353 millones de dólares). El Milán deberá devolver en octubre esa cantidad al fondo estadounidense Elliott Management. El organismo de control financiero de la UEFA podría expulsar así al Milán de la Liga Europa en las próximas semanas. El club italiano, siete veces campeón de la Copa de Europa, consiguió el billete directo a la competición al terminar la Liga italiana en sexta posición. "La decisión de la UEFA me sorprendió y me causó amargura", dijo el director general del Milán, Marco Fassone. "Analicaremos los aspectos legales de la decisión porque puede provocar un daño muy grande a la imagen del club". La preocupación de la UEFA es tanto por el reembolso de los préstamos a Elliott Management como por las garantías financieras ofrecidas por el presidente del club, Li Yonghong, un empresario chino que compró el Milán a Silvio Berlusconi



ni en abril de 2017. El "fair play financiero" es una herramienta creada en 2011 por la confederación europea para evitar que los equipos gasten más de lo que ingresan. Según su reglamento, permite a cada club unas pérdidas de hasta 30 millones para un total de tres ejercicios.

ESPN Deportes

AVISO DE REUNIÓN PÚBLICA

CONCESIÓN NACIONAL DE RESILIENCIA ANTE DESASTRES DE SHELBY COUNTY DISEÑO DEL VECINDARIO DE SOUTH CYPRESS CREEK/WEST JUNCTION

La Oficina de Resiliencia del Gobierno del Condado de Shelby y Sasaki Associates, Inc. invitan a cabo una Audiencia Pública para analizar la Actividad South Cypress Creek del Subvención Nacional de Resiliencia Ante Desastres del Condado de Shelby.

El objetivo de esta reunión pública es presentar un concepto de diseño para el control de inundaciones a lo largo de South Cypress Creek que sea compatible con la Concesión Nacional de Resiliencia Ante Desastres (National Disaster Resilience Grant/NDRG, por sus siglas en inglés) y solicitar comentarios sobre el concepto de diseño para el vecindario de South Cypress Creek/West Junction (South Cypress Creek and the West Junction Neighborhood). Esta reunión será la tercera de una serie de reuniones públicas que se han celebrado en Mitchell High School para solicitar comentarios e ideas sobre el Proyecto de South Cypress Creek bajo la Subvención de la NDRG. El concepto de diseño para la mitigación de futuras inundaciones a lo largo de South Cypress Creek sigue los conceptos desarrollados en la Concesión de Subvenciones de la NDRG. Reuniones futuras ocurrirán a medida que el proyecto avance tanto en el diseño como en la implementación.

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Reunión Pública del Vecindario de South Cypress Creek/West Junction
Jueves, 14 de junio del 2018
Cafetería del Mitchell High School - 658 W. Mitchell Road, Memphis, TN 38109
5:33 PM - 7:00 PM

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Jared Darby, NDR Planning Manager, Oficina de Resiliencia, 125 N. Main, Room 443, Memphis, TN 38103, (901) 636-7100, jared.darby@memphishg.gov

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Para más información en español, por favor llame al 361-272-2038.

Maria H. Lutfrell Jr.
Asesor

Jim Vazquez, Administrador
Oficina de Resiliencia del Condado de Shelby

**NOTICE OF PUBLIC MEETING
SHELBY COUNTY NATIONAL DISASTER
RESILIENCE GRANT
SOUTH CYPRESS CREEK/WEST JUNCTION
NEIGHBORHOOD DESIGN**

Shelby County Government's Office of Resilience and Sasaki Associates, Inc. will hold a Public Hearing to discuss the Shelby County National Disaster Resilience Grant's South Cypress Creek Activity

The purpose of this public meeting is to present a design concept for flood control along South Cypress Creek compatible with the established National Disaster Resilience (NDR) Grant and to solicit input on the design concept for South Cypress Creek and the West Junction Neighborhood. This meeting will be the third in a series of public meetings which have been held at Mitchell High School to solicit comments and input on the South Cypress Creek Project under the NDR Grant. The design concept for the mitigation of future flooding along South Cypress Creek follows the concepts outlined in the NDR Grant award. Future meetings will occur as the project moves forward in both design and implementation.

The meeting will be held at the following time and location within the South Cypress Creek and West Junction community:

South Cypress Creek/West Junction Neighborhood Public Meeting

Thursday June 14, 2018

Mitchell High School Cafeteria
658 W. Mitchell Road, Memphis, TN 38109

5:30 PM - 7:00 PM

If you plan to attend the public hearing and have special needs, please contact the following individual or TTY at 901-222-2301 by 4:30 p.m. Wednesday June 6, 2018 and we will work to accommodate you:

Jared Darby, NDR Planning Manager, Office of Resilience, 125 N. Main, Room 443, Memphis, TN 38103, (901) 636-7166, jared.darby@memphistn.gov

Citizen input and public participation is strongly encouraged from all sectors of the Shelby County community. Shelby County does not discriminate on the basis of race, color, national origin, sex, religion, age or disability in employment or the provision of services. Equal opportunity/equal access provider.

Para mas información en Español, por favor llame al 901-222-2088.

Mark H. Luttrell, Jr. Mayor

Jim Vazquez, Administrator
Shelby County Office of Resilience



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MISCELLANEOUS NOTICES

| Details | Type | Preview | Publication Date(s) |
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| View | NOTICE | ELITE AUTO SALES AND RENTALS LLC WILL BE AUCTIONING OFF THE FOLLOWING VEHICLES FOR REPAIRS AND STORAGE FOR June 22, more | June 22, 2018 |
| View | CITY OF GERMANTOWN | Planning Commission Tuesday, July 10, 2018 6:00 p.m. City Hall Council Chambers, 1530 S. Germantown Road Executive more | June 22, 2018 |
| View | NOTICE OF PROPOSED SALE OF REAL PROPERTY | BY SHELBY COUNTY GOVERNMENT Notice is hereby given, pursuant to T.C.A. §67-5-2507, that Shelby County Government has received an more | June 22, 2018 |
| View | Notice of Public Sale | The following vehicles will be sold at auction on 7/14/18 at Marion Towing located at 1601 East Brooks Rd., Memphis, more | June 22, 2018 |
| View | NOTICE | THE FOLLOWING VEHICLES WILL BE SOLD AT AUCTION 6/27/18 AT 8 A.M. LOCATED AT 3501 KNIGHT ARNOLD RD MEMPHIS. more | June 22, 2018 |
| View | NOTICE OF PUBLIC HEARING | Notice is hereby given that The Health, Educational and Housing Facility Board of the City of Memphis, Tennessee (the "Board"), more | June 22, 2018 |
| View | NOTICE OF PUBLIC MEETING | SHELBY COUNTY NATIONAL DISASTER RESILIENCE GRANT SOUTH CYPRESS CREEK/WEST JUNCTION NEIGHBORHOOD DESIGN Shelby County Government's Office of Resilience more | June 22, 2018 |
| View | Parks and Recreation Director | TOWN OF ARLINGTON. Arlington is a small but fast-growing community seeking a motivated and committed professional to serve as the more | June 19, 20, 21, 22, 2018 |

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Miscellaneous Notice

NOTICE OF PUBLIC MEETING

SHELBY COUNTY NATIONAL DISASTER RESILIENCE GRANT SOUTH CYPRESS CREEK/WEST JUNCTION NEIGHBORHOOD DESIGN

Shelby County Government's Office of Resilience and Sasaki Associates, Inc. will hold a Public Meeting to discuss the Shelby County National Disaster Resilience Grant's project design for flood risk reduction within the South Cypress Creek target area. The purpose of this public meeting is to review a design concept for improving flood risk reduction along South Cypress Creek compatible with the established National Disaster Resilience (NDR) Grant and to solicit input on the design concept for South Cypress Creek and the West Junction Neighborhood. This meeting will be the fourth in a series of public meetings that have been held at Mitchell High School to solicit comments and input on the South Cypress Creek Project under the NDR Grant. The design concept for flood risk reduction resulting from future flooding along South Cypress Creek follows the concepts outlined in the NDR Grant award. Future meetings will occur as the project moves forward in both design and implementation.

The meeting will be held at the following time and location within the South Cypress Creek and West Junction community:

South Cypress Creek/West Junction Neighborhood Public Meeting

Thursday July 26, 2018

Mitchell High School Cafeteria - 658 W. Mitchell Road, Memphis, TN 38109

5:30 PM - 7:00 PM

If you plan to attend the public hearing and have special needs, please contact the following individual or TTY at 901-222-2301 by 4:30 p.m. Wednesday July 18, 2018 and we will work to accommodate you:

Jared Darby, NDR Planning Manager, Office of Resilience, 125 N. Main, Room 443, Memphis, TN 38103, (901) 636-7166,

jared.darby@memphistn.gov

Citizen input and public participation is strongly encouraged from all sectors of the Shelby County community. Shelby County does not discriminate on the basis of race, color, national origin, sex, religion, age or disability in employment or the provision of services. Equal opportunity/equal access provider.

Para mas información en Español, por favor llame al 901-222-2088.

Mark H. Luttrell, Jr.

Mayor

Jim Vazquez, Administrator

Shelby County Office of Resilience

June 22, 2018 Mnd63422

Public Notices

creed, color, national origin, sex, religion or handicap status in employment or the provisions of services
June 22, 2018 Bnd63464

LEGAL NOTICE TO BIDDERS SHELTERED MARKET BID (RFQ) OPPORTUNITY

Sealed bids or proposals will be received from Sheltered Market Program participants by Memphis Light, Gas and Water Division (MLGW) prior to 4:00 PM CDT/Tuesday, June 26, 2018. Bidders/bidders or respondents must perform a commercially useful function in the performance of the agreement. If you choose to bring your additional supporting documentation to MLGW, please allow 30 minutes prior to 4:00 PM CDT/ST for MLGW security clearance and delivery of the documents to the Purchasing Department. The official time of receipt of the supporting documentation will be established in the Purchasing Department and not at the main floor security desk. Bids or proposals will be pulled open and read at 2:00 PM CDT/ST Wednesday, June 27, 2018, for furnishing MLGW with:

Two (2) items of New APC Ups and Battery in accordance to bidding plan in MLGW Supplier Portal; Sealed bid (RFQ) (or proposal) to be marked "SHELTERED MARKET BID (RFQ) ON NEW APC UPS AND BATTERY". PLEASE NOTE: Under Tennessee Code Annotated §§ 10-7-503 and 10-7-504 (bids or proposals) may have access to task (bids or proposals) for inspection only after the completion of evaluation of same by MLGW.

Under the MLGW Supplier Diversity Policy effective January 1, 2018, MLGW may designate certain purchases and contracts as sheltered market opportunities, which will only be open for competition between certified Local Small Businesses (LSBs) and which are independent and continuing enterprise (or profit, performing a commercially useful function, which is at least 51% owned, operated, and independently controlled by a resident or resident of the Memphis Metropolitan Statistical Area. Only LSBs are considered Sheltered Market Program participants. The sheltered market procurement requirements will only apply when there is a reasonable expectation that offers will be obtained from three (3) or more LSBs that are competitive in terms of market prices, quality and delivery. If only one acceptable offer is received from a responsible LSB, the sheltered market procurement will be withdrawn, the bid (RFQ) returned unopened and the product or service, if still needed, will be solicited in an unrestricted basis. Bids received from non-certified LSBs in response to this solicitation will be returned to the bidder unopened. Visit www.mlgw.com/SDPolicy for a full copy of the policy.

Proposals shall be under the appropriate MLGW Bid (RFQ) Requirement Sheet. A copy of which may be obtained from the office of the Supervisor of Purchasing. Any protest must be filed in writing with the Manager of Procurement and Contracting by 5:00 PM CDT/ST within five (5) business days of the notification of intent to award or nonaward date. Protest may also be submitted electronically or personally letterhead to the Manager of Procurement and Contracting by 5:00 PM CDT/ST at c.davis@mlgw.org. For a copy of the MLGW Procurement Complaints and Appeals Process visit www.mlgw.com/protest or call (901) 528-4701.

If a mandatory Bidders' Orientation meeting is held and when the meeting commences and only one potential bidder is present either in person or via teleconference, the meeting will be rescheduled for a later date and additional potential bidders identified to ensure competitive bidding. If only one bidder submits qualifications or if after review of all qualifications only bidder is deemed qualified to bid (RFQ) on the contract, the project will not proceed. MLGW will identify other potential bidders to ensure

this receipt of competitive bids.

MLGW has implemented an Supplier Portal system in an effort to be more accessible to MLGW's suppliers. You may access the system via MLGW's website, www.mlgw.com or at www.mlgw.com/bids. In order to easily access the portal, please bookmark the URL. You may contact the Purchasing Department at (901) 528-4701 for assistance. Suppliers MUST be registered on the Supplier Portal to submit a bid (RFQ). To register in the Supplier Portal, click the following and complete the information listed: MLGW Supplier Portal (New Suppliers) or call MLGW Purchasing Department for assistance. To respond to an open RFQ, send an email to the corresponding Procurement Specialist and request an invite. MLGW will continue to utilize the Online Bid Notification System for public advertising. Suppliers may continue to view available bid openings on the Online Bid Notification System but must submit quotes via Supplier Portal. For questions, please email suppliers@mlgw.com.

Bidders should note that employees of MLGW adhere to certain standards of ethical business conduct. Any bidder who may be related to an MLGW commissioner, officer, agent or employee is advised to consult the Standards of Business Conduct which can be found at www.mlgw.com/sbc or by calling (901) 528-4381.

MEMPHIS LIGHT, GAS AND WATER
DIVISION
RANDY ORSBY, M.B.A.
SUPERVISOR, PURCHASING
CONTACT: SEBASTIAN MARION, SR.
PROCUREMENT SPECIALIST
(901) 528-4701
June 21, 22, 28, 2018 Bnd63416

Misc. Notices

Shelby County

Parks and Recreation Director
TOWN OF ARLINGTON. Arlington is a small but fast-growing community seeking a motivated and committed professional to serve as the Town's Parks and Recreation Director. Under the direction and supervision of the Town Administrator, the Director plans, directs, coordinates, and evaluates the parks, programming, special events and league activities for the Town of Arlington. Must have the ability to supervise, manage, direct, coordinate and affect coordination in park department personnel. The Director will also support community efforts and represent the department on a local and regional basis. The Town of Arlington Parks and Recreation Department oversees 8 parks, totaling approximately 145 acres; oversees Non-Profit run League Sports, In-house Basketball League, Town Special Events and is responsible for grounds upkeep at several other Town locations. Requires a Bachelor's degree from an accredited four-year college or university with a major in Parks and Recreation (preferred), Public Administration, Business Management, or a closely related field; eight (8) years of progressive experience in parks and recreation of which five (5) years of experience must have been in a responsible administrative and supervisory role, municipal setting preferred, or equivalent relevant experience. A complete job description and application can be found at www.townofarlington.org. Applications will be received in the office of the Town Recorder at Bowers@townofarlington.org or Town of Arlington P.O. Box 507, 5854 Airline Road, Arlington, TN 38002 until the position is filled. Salary range begins at \$49,500 and tops at \$69,300. EEO/Drug Free Workplace.
June 19, 20, 21, 22, 2018 Mnd63353

NOTICE OF PUBLIC MEETING
SHELBY COUNTY NATIONAL DISASTER RESILIENCE GRANT SOUTH CYPRESS CREEK/WEST JUNCTION NEIGHBORHOOD DESIGN
Shelby County Government's Office of Resilience and Safety Associates, Inc. will hold a Public Meeting to discuss the Shelby County National Disaster Resilience Grant's project design for flood risk reduction within the South Cypress Creek target area. The purpose of this public meeting is to review a design concept for improving

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Mitchell High School Cafeteria - 658 W. Mitchell Road, Memphis, TN 38109
5:30 PM - 7:00 PM

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Jim Vazquez, Administrator
Shelby County Office of Resilience
June 22, 2018 Mnd63422

NOTICE OF PUBLIC HEARING
Notice is hereby given that The Health, Educational and Housing Facility Board of the City of Memphis, Tennessee (the "Board"), will conduct an open and public hearing, as required under Section 147(f) of the Internal Revenue Code of 1986, as amended (the "Code") on Monday, July 9, 2018, commencing at 10:00 a.m. Central Daylight Time at 65 Union Avenue, Suite 1120, Memphis, Tennessee 38103, at which time there will be an opportunity for persons to express their views concerning a request that the Board issue its Multifamily Housing Revenue Bonds (East Gate Village Apartments Project), Series 2018, in one or more series, in an aggregate principal amount not to exceed Eight Million Five Hundred Thousand Dollars (\$8,500,000) (the "Bonds") the proceeds of the sale thereof to be loaned to East Gate Village Preservation, LP, a Tennessee limited partnership (the "Borrower") for the purpose of: (i) equipping and substantially rehabilitating a certain 100-unit multi-family residential rental facility located at 515 Nash Street, Union City, Obion County, Tennessee 38261 (the "Project") and (ii) to the extent permitted to pay certain costs of the Project. The Project will be managed by TESCO Properties, Inc. The Bonds will be issued pursuant to the provisions of Title 48, Chapter 101, Part 3, Section 48-101-901 et seq., Tennessee Code Annotated, as amended (the "Act"), and as required by the Act, the Bonds shall not constitute a debt of the City of Memphis, Tennessee, Union City, Tennessee, the County of Shelby, Tennessee, the County of Obion, Tennessee the State of Tennessee or any other political subdivision thereof. None of said City, County, State or any political subdivision thereof shall be liable upon the Bonds, nor shall the Bonds be payable from any funds or property other than those pledged to the payment thereof. Neither the Board nor the Union City Board has taxing power. The Bonds will be payable solely from revenues derived from the Project. The Board has appointed its General Counsel, Charles E. Carpenter, Esquire as its representative for the purpose of

holding this public hearing. Interested persons who wish to express their views either orally or in writing concerning the proposed issuance of the Bonds or the location or nature of the facilities to be financed thereby will be given the opportunity to do so at the above stated time and place. Additional information concerning the Project may be obtained from, and written comments should be addressed to either Martin Edwards, Jr., Executive Director, 65 Union Avenue, Suite 1120, Memphis, Tennessee 38103, telephone number (901) 527-6400, or Kathy Dillon, City Manager, 408 South Depot Street, Union City, Tennessee 38261, telephone number (731) 885-1341. This notice is given pursuant to the provisions of the Act, Sections 48-101 to 48-104-108 inclusive of the Tennessee Code Annotated, and Section 147(f) of the Code.
Daniel T. Reid, Chairman
The Health, Educational and Housing Facility Board of the City of Memphis, Tennessee
June 22, 2018 Mnd63445

NOTICE

THE FOLLOWING VEHICLES WILL BE SOLD AT AUCTION 6/27/18 AT 8 A.M. LOCATED AT 3501 KNIGHT ARNOLD RD MEMPHIS, TN 38118
2011 Chevrolet Malibu
VIN: 1G1ZASUXB351942
Owner: Audra Corbin
Lienholder: OneMain Financial Group
2011 Chevrolet Malibu
VIN: 1G1ZC5E48F304576
Owner: Patrick D. Love / Brittany P. Dorsey
Lienholder: BT Acceptance Corp.
2005 Ford Five Hundred
VIN: 1FAFP24145G188479
Owner: Latonya Smith
2002 Ford Focus
VIN: 3FAFP32626P181729
Owner: Francis Elliott
Lienholder: Americredit Financial Services
2015 Hyundai Elantra
VIN: 5NPDH4EE3PH553541
Owner: Brenda Pugh
Lienholder: Credit Acceptance Corp.
2009 Kinging CIXI
VIN: LUSP610K891060112
Owner: Yonahs D. Motos
2011 Honda Civic
VIN: 1VH2C65585M10930
Owner: Tiffany Quadri
Lienholder: Credit Acceptance Corp.
2000 Nissan Altima
VIN: 1N4AL11D46N20607
Owner: Ronnie Hendrick Jr.
2018 Nissan Versa
VIN: 3N1CN7AP7J835829
Owner: Renesia Mitchell / Joshua Shelby
Lienholder: Evler Finance LLC
2005 Pontiac Vibe
VIN: 5Y2SL638652408137
Owner: Dawn Mahi
1998 Toyota Camry
VIN: 4T1BF22K3W053563
Owner: Antonio Johnson
Lienholder: Bryant's Auto Sales
June 22, 2018 Mnd63460

NOTICE OF PROPOSED SALE OF REAL PROPERTY
BY SHELBY COUNTY GOVERNMENT
Notice is hereby given, pursuant to T.C.A. § 97-5-2507, that Shelby County Government has received an Offer to Purchase for the following property:
Willie Dendard
Tax Parcel #0400290000690
File Sale \$103
Price Offered: \$50.00 Terms: Cash
Additional Offers to Purchase, of at least ten percent (10%) higher may be submitted within Ten (10) working days

Notice of Public Sale

The following vehicles will be sold at auction on 7/14/18 at Marion Towing located at 1501 East Brooks Rd., Memphis, TN 38116. Owner of said vehicles have the right to make claim prior to the sale date at the above address, Marion Towing contact: (901) 345-1128
No. Year Make Model Vehicle Identification
1. 2015 Nissan Altima 1N4AL3AP7F0423065
June 22, 2018 Mnd63461

of this notice. If additional offers are received during this ten (10) day period, all prospective Purchasers must attend a Public "Bid Off" at 3:00 p.m. on July 25, 2018, to be held in the Shelby County Land Bank Office, to determine the highest and best offer. The property shall thereafter be sold to the prospective Purchaser making the highest and best offer without warranties of any sort.

SHELBY COUNTY LAND BANK
38103
584 ADAMS AVENUE, MEMPHIS, TN
ANDREA PETTIS (901) 222-2582
June 22, 2018 Mnd63465

CITY OF GERMANTOWN
Planning Commission
Tuesday, July 10, 2018 6:00 p.m.
City Hall Council Chambers, 1930 S. Germantown Road
Executive Session: 5:30 p.m.
Administration Conference Room
1. Call to Order
2. Establishment of a Quorum
3. Approval of the June 5, 2018 Minutes
4. Public Hearings

Case Number & Project Name: (18-815) Dogwood View Subdivision
Location: Southwest corner Woodstock Dr. & Dogwood Rd.
Owner/Applicant: Greg Perotti
Representative: McCarty Granberry Engineering - David Hudson
Existing Zoning: "R-1" Residential Townhouse
Area: 2.29 acres
Request: Approval of a 2 Lot Preliminary and Final Subdivision Plat
Case Number & Project Name: (17-759) Goodwin Farms P.U.D.
Location: North side of Waverly Rd., approx. 1,000 ft. east of Crestway Dr.
Owner/Applicant/Developer: Regency Homebuilders - Paul Ryan
Representative: SR Consulting - Cindy Prosser
Existing Zoning: "R" Single-Family Residential
Area: 14.74 acres (Phase 1)
Request: Approval of Final Plan, Phase 1 (21 lots and Common Open Space)
Case Number & Project Name: (18-821) Cordova Triangle
Location: Nashville, Germantown and Cordova Rds.
Owner: Various
Applicant/Representative: Lily A. Germantown - Mayor
Existing Zoning: "I-4" General Urban Area, 19.77 acres
Request: Approval of a Rezoning from "I-4" General Urban to "R" Single-Family Residential and Ordinance Amendment to Delete Cordova Triangle from CBD Regulating Plan
Referred to in Sec. 23-756 and the Zoning Map in Sec. 23-824 in the Germantown Smart Code
5. Old Business
6. New Business
7. Adjournment
June 22, 2018 Mnd63460

NOTICE

ELITE AUTO SALES AND RENTALS LLC WILL BE AUCTIONING OFF THE FOLLOWING VEHICLES FOR REPAIRS AND STORAGE FOR June 22, 2018 @ 9:00 AM WINCHESTER MEMPHIS TN 38118/901-396-0753
1. 2004 Kia Amanti White VIN: KNA1D324945033401
2. 2013 Hyundai Sonata Black VIN: 5NPEB4AC8DWS52127
3. 2010 Hyundai Elantra Gray VIN: KMHDDUAD1AU032115
4. 2014 Ford Focus Gray VIN: 1FADP3E21EL150708
June 22, 2018 Mnd63474

Notice of Public Sale

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No. Year Make Model Vehicle Identification
1. 2015 Nissan Altima 1N4AL3AP7F0423065
June 22, 2018 Mnd63461

The Daily News
Call 528-1368
Today!

**AVISO DE REUNIÓN PÚBLICA
CONCESIÓN NACIONAL DE RESILIENCIA ANTE
DESASTRES DEL CONDADO DE SHELBY
DISEÑO DEL VECINDARIO DE SOUTH CYPRESS CREEK/WEST JUNCTION**

La Oficina de Resiliencia del Gobierno del Condado de Shelby y Sasaki Associates, Inc. llevarán a cabo una Reunión Pública para discutir sobre el diseño del proyecto del Subsidio Nacional de Resiliencia Ante Desastres del Condado de Shelby para la reducción del riesgo de inundación dentro del área objetivo de South Cypress Creek.

El objetivo de esta reunión pública es revisar un concepto de diseño para mejorar la reducción del riesgo de inundación a lo largo de South Cypress Creek que sea compatible con la Concesión Nacional de Resiliencia Ante Desastres (National Disaster Resilience Grant/NDR, por sus siglas en inglés) y solicitar comentarios sobre el concepto de diseño para el Vecindario de South Cypress Creek/West Junction (South Cypress Creek and the West Junction Neighborhood). Esta reunión será la cuarta de una serie de reuniones públicas que se han celebrado en Mitchell High School para solicitar comentarios e ideas sobre el Proyecto de South Cypress Creek bajo la Subvención de la NDR. El concepto de diseño para la reducción del riesgo de inundación resultante de futuras inundaciones a lo largo de South Cypress Creek sigue los conceptos delineados en la Concesión de Subvenciones de la NDR. Reuniones futuras ocurrirán a medida que el proyecto avanza tanto en el diseño como en la implementación.

La reunión se llevará a cabo a la siguiente hora y lugar dentro de la comunidad de South Cypress Creek y West Junction:

Reunión Pública del Vecindario de South Cypress Creek/West Junction
Jueves, 26 de julio del 2018
Cafetería del Mitchell High School -
658 W. Mitchell Road, Memphis, TN 38109
5:30 PM - 7:00 PM

Si planea asistir a la reunión pública y tiene necesidades especiales, comuníquese con la persona mencionada más adelante o TTY al 901-222-2301 antes de las 4:30 PM el miércoles, 18 de julio del 2018, y haremos lo posible para acomodarlo:

Jared Darby, NDR Planning Manager, Office of Resilience, 125 N. Main, Room 443, Memphis, TN 38103, (901) 636-7166, jared.darby@memphistn.gov

La participación de los ciudadanos y la participación pública se recomienda encarecidamente en todos los sectores de la comunidad del Condado de Shelby. El Condado de Shelby no discrimina por motivos de raza, color, origen nacional, sexo, religión, edad o discapacidad en el empleo o la prestación de servicios. Es un proveedor de igualdad de oportunidades/acceso equitativo.

Para más información en español, por favor llame al 901-222-2088.

Mark H. Luttrell, Jr.
Alcalde

Jim Vázquez, Administrador
Oficina de Resiliencia del Condado de Shelby

MÉXICO Y URUGUAY DAN LA CARA POR LATINOAMÉRICA

MEXICO AND URUGUAY BEST REPRESENTATIVES FOR LATIN AMERICA

Tras la victoria de la selección de fútbol de México en la Copa del Mundo de Brasil 2014, los seleccionados de México y Uruguay se convirtieron en los únicos países latinoamericanos que se clasificaron para la Copa del Mundo de Fútbol 2014 en Brasil.



Los jugadores que jugaron en la Copa del Mundo de México 2014, los seleccionados de México y Uruguay se convirtieron en los únicos países latinoamericanos que se clasificaron para la Copa del Mundo de Fútbol 2014 en Brasil.

Por su parte, la selección uruguaya tuvo un desempeño destacado en la Copa del Mundo de Brasil 2014, logrando clasificarse para la Copa del Mundo de Fútbol 2014 en Brasil.

Suecia se arrepiente de no llevar a Zlatan Ibrahimovic

Sweden Regrets Not Taking Zlatan Ibrahimovic

El seleccionador sueco Erik ten Hag dijo que su equipo se arrepiente de no haber llevado a Zlatan Ibrahimovic a la Copa del Mundo de Brasil 2014.



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AVISO DE REUNIÓN PÚBLICA CONCESIÓN NACIONAL DE RESILIENCIA ANTE DESASTRES DEL CONDADO DE SHELBY DISEÑO DEL VECINDARIO DE SOUTH CYPRESS CREEK/WEST JUNCTION

La Oficina de Resiliencia del Gobierno del Condado de Shelby y Sasco Associates, Inc. llevarán a cabo una Reunión Pública para discutir sobre el diseño del proyecto del Subsidio Nacional de Resiliencia Ante Desastres del Condado de Shelby para la reducción del riesgo de inundación dentro del área objetivo de South Cypress Creek.

El objetivo de esta reunión pública es revisar un concepto de diseño para mejorar la reducción del riesgo de inundación a lo largo de South Cypress Creek que sea compatible con la Concesión Nacional de Resiliencia Ante Desastres (National Disaster Resiliency Grant/NDR, por sus siglas en inglés) y solicitar comentarios sobre el concepto de diseño para el Vecindario de South Cypress Creek/West Junction (South Cypress Creek and the West Junction Neighborhood). Esta reunión será la cuarta de una serie de reuniones públicas que se han celebrado en Mitchell High School para solicitar comentarios e ideas sobre el Proyecto de South Cypress Creek bajo la Subvención de la NDR. El concepto de diseño para la reducción del riesgo de inundación resultante de futuras inundaciones a lo largo de South Cypress Creek sigue los conceptos delineados en la Concesión de Subvenciones de la NDR. Resúmenes futuros incluirán a medida que el proyecto avance tanto en el diseño como en la implementación.

La reunión se llevará a cabo a la siguiente hora y lugar dentro de la comunidad de South Cypress Creek y West Junction:

Reunión Pública del Vecindario de South Cypress Creek/West Junction
Jueves, 26 de julio de 2015
Calletera del Mitchell High School
635 W. Mitchell Road, Memphis, TN 38109
5:30 PM - 7:00 PM

Si plasma asista a la reunión pública y tiene necesidades especiales, comuníquese con la persona mencionada más adelante a TTY al 901-222-7201 antes de las 4:00 PM el miércoles, 18 de julio de 2015, y haremos lo posible para acomodarlo.

Jared Darby, NDR Planning Manager, Office of Resiliency, 175 N. Main, Room 443, Memphis, TN 38103, (901) 636-2152, jared.darby@memphistn.gov

La participación de los ciudadanos y la participación pública se recomienda encarecidamente en todos los sectores de la comunidad del Condado de Shelby. El Condado de Shelby no discrimina por motivos de raza, color, origen nacional, sexo, religión, edad o discapacidad en el empleo o la prestación de servicios. Es un proveedor de igualdad de oportunidades/suceso equitativo.

Para más información en español, por favor llame al 901-222-0085.

Mark H. Lottrell, Jr.
 Alcalde

Jim Vazquez, Administrador
 Oficina de Resiliencia del Condado de Shelby

LOS RESTAURANTES DESTACADOS DE ESTA SEMANA SON:

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143 MADISON AVE
- LOS REYES**
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- GARIBALDIS TAQUERIA**
5967 KNIGHT ARNOLD ROAD EXT
- EL PATRON**
6888 GOODMAN RD STE 101
- LA CHOZITA TIENDA Y TAQUERIA**
1201 N MISSOURI ST
- LAS OLAS DEL PACIFIC**
2731 BARTLETT BLVD
- FRANCISCO'S**
7772 US HIGHWAY 51 N
- EL PATRON**
5811 STAGE RD

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Los "cracks" con su último chance de ganar un Mundial

The Stars with the Last Chance to Win a World Cup



Los jugadores que jugaron en la Copa del Mundo de Brasil 2014, los seleccionados de México y Uruguay se convirtieron en los únicos países latinoamericanos que se clasificaron para la Copa del Mundo de Fútbol 2014 en Brasil.

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MÉXICO Y URUGUAY DAN LA CARA POR LATINOAMÉRICA

MEXICO AND URUGUAY BEST REPRESENTATIVES FOR LATIN AMERICA

Tras la victoria 2-1 de Colombia ante Japón, finalizó la primera jornada para los equipos de la CONCACAF y CONMEBOL que participan en la Copa del Mundo de Rusia 2018. Las selecciones de México y Uruguay se convirtieron en las únicas plantillas que dieron la cara por el continente americano.

Los dirigidos por José Néstor Pékerman no pudieron evitar la descalificación en el debut inaugural tras una buena actuación de la escuadra nipona. Es importante mencionar que Colombia se quedó con 10 hombres desde los primeros minutos del encuentro tras la expulsión de Carlos Sánchez.

El triunfo del combinado azteca por 1-0 a la selección de Alemania se convirtió en una de las sorpresas más destacadas de la primera ronda porque la mayoría de los aficionados daban como favoritos a los vigentes Campeones del Mundo.

La victoria de El Tri causó un profundo impacto a nivel internacional y San Heorhenn de Corea del Sur, próximo rival de México, destacó que el plante de Juan Carlos Osorio "debe ser considerado contendiente al título" de Rusia 2018.



Por su parte, la escuadra japonesa tuvo un complicado debut en el Mundial ante la selección de España, que registró un buen partido sin su máxima estrella, Mohamed Salah.

Los dirigidos por Hector Cuper se plantaron bien en el terreno de juego y estuvieron muy cerca de terminar con un punto, pero José María Giménez consiguió la anotación en los últimos momentos del partido y los dirigidos por Oscar Washington Tabares se llevaron los tres puntos.

ESPN Deportes

Suecia se arrepiente de no llevar a Zlatan Ibrahimovic

Sweden Regrets Not Taking Zlatan Ibrahimovic

El centrocampista sueco Zlatan Ibrahimovic dijo que su equipo sería mejor en la Copa del Mundo de Rusia 2018, pero que se arrepiente de no haberlo tomado.

Ibrahimovic, de 36 años, se retiró de la selección después de la Eurocopa 2008, y aunque a muchos rumores de volver para la Copa del Mundo, el delantero del AC Milan finalmente decidió no hacerlo en abril.

"Queremos llegar a la Copa del Mundo en Ibrahimovic", dijo Ibrahimovic en la edición de esta semana de Sport Bild en una entrevista realizada antes del comienzo de la Copa del Mundo. "Pero es un hecho. Suecia sería mejor con Zlatan".

"Pero si no está con nosotros ahora y ya no debería ser un problema. Somos fuertes como equipo, siempre aportamos nuestra mentalidad y pasión".

Ibrahimovic, quien dijo que espera que Alemania ganará la Copa del Mundo, dijo al 60 que "es imposible arrepentirse" por no participar en la competencia.

Suecia ganó su primer partido contra Corea del Sur por 1-0 y enfrentará a Alemania, que perdió por 1-0 ante México, en la segunda jornada del Grupo F.

El internacional de Alemania Timo Werner, jugador del RB Leipzig, del Borussia Dortmund, que representó a Alemania, no tuvo nada de un impulso para la Copa del Mundo.

"Quiero agradecer al mal Zlatan Ibrahimovic"



vo es un futbolista sobresaliente que puede marcar la diferencia", dijo Werner. "Otra estrella hubiera sido buena para la Copa del Mundo, es por eso que es una pena. Pero Suecia es la selección más fuerte".

ESPN Deportes

AVISO DE REUNIÓN PÚBLICA CONCESIÓN NACIONAL DE RESILIENCIA ANTE DESASTRES DEL CONDADO DE SHELBY DISEÑO DEL VECINDARIO DE SOUTH CYPRESS CREEK/WEST JUNCTION

La Oficina de Resiliencia del Gobierno del Condado de Shelby y Sasadi Associates, Inc. llevarán a cabo una Reunión Pública para discutir sobre el diseño del proyecto del Subsidio Nacional de Resiliencia Ante Desastres del Condado de Shelby para la reducción del riesgo de inundación dentro del área objetivo de South Cypress Creek.

El objetivo de esta reunión pública es revisar un concepto de diseño para mejorar la reducción del riesgo de inundación a lo largo de South Cypress Creek que sea compatible con la Concesión Nacional de Resiliencia Ante Desastres (National Disaster Resilience Grant/NDR, por sus siglas en inglés) y solicitar comentarios sobre el concepto de diseño para el Vecindario de South Cypress Creek/West Junction (South Cypress Creek and the West Junction Neighborhood). Esta reunión será la cuarta de una serie de reuniones públicas que se han celebrado en Mitchell High School para solicitar comentarios e ideas sobre el Proyecto de South Cypress Creek bajo la Subvención de la NDR. El concepto de diseño para la reducción del riesgo de inundación resultante de futuras inundaciones a lo largo de South Cypress Creek sigue los conceptos delineados en la Concesión de Subvenciones de la NDR. Reuniones futuras ocurrirán a medida que el proyecto avance tanto en el diseño como en la implementación.

La reunión se llevará a cabo a la siguiente hora y lugar dentro de la comunidad de South Cypress Creek y West Junction:

Reunión Pública del Vecindario de South Cypress Creek/West Junction
Jueves, 26 de julio del 2018
Cafetería del Mitchell High School -
658 W. Mitchell Road, Memphis, TN 38109
5:00 PM - 7:00 PM

Si planea asistir a la reunión pública y tiene necesidades especiales, comuníquese con la persona mencionada más adelante o llame al 901-222-2636 antes de las 4:00 PM el miércoles, 18 de julio del 2018, y haremos lo posible para acomodarlo.

Jared Darby, NDR Planning Manager, Office of Resilience, 125 N. Main, Room 443, Memphis, TN 38103, (901) 636-7156, jared.darby@memphistn.gov

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Para más información en español, por favor llame al 901-222-2636.

Mark H. Luttrell, Jr.
 Alcalde

Jim Vázquez, Administrador
 Oficina de Resiliencia del Condado de Shelby

South Cypress Creek and West Junction Neighborhood Design Implementation Project

Public Workshop #1

September 28th, 2017

Mitchell High School Cafeteria, Memphis, TN

ALL SIGN-IN INFORMATION IS OPTIONAL

| Name | Email (if you would like to be contacted about future events) | Organization (if attending in professional capacity) | Position (if attending in professional capacity) | Resident of West Junction? (Y/N) |
|------------------|---|--|--|----------------------------------|
| Alan C. Butler | Personal Information redacted to protect privacy. | | | Y |
| Pam Wall | | | | Y |
| Chris Horne | | | | N |
| Brie Hensold | | | | N |
| Julia Mackay | | | | N |
| Travis Mazerall | | | | N |
| Margaret Adams | | | | Y |
| dt mca | | | | |
| Angela Turner | | | | Y |
| Curtis Jefferson | | | | Y |

| Name | Email (if you would like to be contacted about future events) | Organization (if attending in professional capacity) | Position (if attending in professional capacity) | Resident of West Junction? (Y/N) |
|---------------------|---|--|--|----------------------------------|
| Ms. Michelle Spence | Personal Information redacted to protect privacy. | | | yes |
| Monell R. Spence | | | | yes |
| Christine D. Spence | | | | no |
| Deanna Manning | | | | no |
| Willie L. Spence | | | | yes |
| Cari Harris | | | | no |
| Andrea Owen | | | | yes |
| STEVEA Thomas | | | | no |
| Kit Hauer | | | | yes |
| Autumn Harris | | | | yes |
| Steve Clay | | | | yes |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

| Name | Email (if you would like to be contacted about future events) | Organization (if attending in professional capacity) | Position (if attending in professional capacity) | Resident of West Junction? (Y/N) |
|-------------------|---|--|--|----------------------------------|
| Sharon Ray | Personal Information redacted to protect privacy. | | | |
| Mary Murphy | | | | |
| Ronald White | | | | |
| John Shober | | | | |
| Mildred Mitchell | | | | |
| Dorothy Curtis | | | | |
| Henry E. Taylor | | | | ✓ |
| Wanda Burton | | | | ✓ |
| Shirley Burton | | | | |
| Edgar Parfield | | | | ✓ |
| Virginia G. Allen | | | | ✓ |
| W. K. Padden | | | | ✓ |
| Mary Newberry | | | | ✓ |
| Jerry Britton | | | | ✓ |
| | | | | |

| Name | Email (if you would like to be contacted about future events) | Organization (if attending in professional capacity) | Position (if attending in professional capacity) | Resident of West Junction? (Y/N) |
|--------------------|---|--|--|----------------------------------|
| Dorothy Rony | Personal Information redacted to protect privacy. | | | Y |
| Shirley Thomas | | | | ✓ |
| GRACE DENTON | | | | Y |
| Robbie Moore | | | | |
| Willie Jefferson | | | | Y |
| Ronita Bannins | | | | Y |
| Eluel Bradford | | | | |
| Mrs Cuper | | | | |
| Jim Todd | | | | |
| Betty E. Elden | | | | X |
| Kelvin M. Meeks | | | | N |
| Edmund Ford, Jr. | | | | my church is here! |
| Cedric Davis | | | | |
| Kenneth Mayfield | | | | X |
| Robert M. Moore | | | | Y |
| TRUER M. MOORE, Jr | | | | Y |

| Name | Email (if you would like to be contacted about future events) | Organization (if attending in professional capacity) | Position (if attending in professional capacity) | Resident of West Junction? (Y/N) |
|-------------------------------------|---|--|--|----------------------------------|
| Karen Rubin | Personal Information redacted to protect privacy. | | | Yes |
| Cedric D. Blue | | | | y |
| George W. Ward | | | | yes |
| Earl Woodson | | | | yes |
| Kuby Woodson | | | | yes |
| Ruth MURRAY | | | | Yes |
| LINDA Street | | | | Yes |
| Gwen ^{W. K. Nelson} Nelson | | | | Yes |
| Paula Gordon | | | | Yes |
| Mary L. Young | | | | YES |
| Therese | | | | |
| Arnon Kidel | | | | |
| W. The Green | | | | Yes |
| my team | | | | yes |
| NICHOLAS NEWSON | | | | YES |

INFORMATION MEETING
FLOOD ARE - \$60 MILLION AWARD
SIGN IN SHEET
MITCHELL HIGH SCHOOL CAFETERIA

DATE
SEPT 28, 2017
5:00 PM - 7:30 PM

| NAME | ADDRESS | ORGANIZATION AND/ OR CHURCH | EMAIL | PHONE |
|------------------|---------|--------------------------------|-------|-------|
| 1 Collette Rely | | | | |
| 2 TRACE DENTON | | | | |
| 3 Robbie Moore | | | | |
| 4 Shirley Thomas | | | | |
| 5 Renita Baggins | | | | |
| 6 Ramsha Baggins | | | | |
| 7 Earl Wood | | | | |
| 8 Ruby Woodson | | | | |
| 9 Mary Murphy | | | | |

Personal Information redacted to protect privacy.

INFORMATION MEETING
FLOOD ARE - \$60 MILLION AWARD
SIGN IN SHEET
MITCHELL HIGH SCHOOL CAFETERIA

DATE
SEPT 28, 2017
5:00 PM - 7:30 PM

| NAME | ADDRESS | ORGANIZATION AND/ OR CHURCH | EMAIL | PHONE |
|---|---------|--------------------------------|-------|-------|
| 1. <i>Source T. Leigh</i> | | | | |
| 2. <i>Karen Rubin</i> | | | | |
| 3. <i>Cedric D. Blue</i> | | | | |
| 4. <i>Henry Taylor</i> | | | | |
| 5. <i>George W. Ward</i> <i>Christ Temple Church</i> | | | | |
| 6. <i>Willie Jefferson</i> | | | | |
| 7. <i>Kamisha Baggin</i> | | | | |
| 8. <i>Ellal Bradford</i> | | | | |
| 9. <i>Ben Jibril Stabazz</i> <i>Withers Foundation</i> | | | | |

Personal Information redacted to protect privacy.

INFORMATION MEETING
FLOOD ARE - \$60 MILLION AWARD
SIGN IN SHEET
MITCHELL HIGH SCHOOL CAFETERIA

DATE
SEPT 28, 2017
5:00 PM - 7:30 PM

| NAME | ADDRESS | ORGANIZATION AND/ OR CHURCH | EMAIL | PHONE |
|--|---------|--------------------------------|-------|-------|
| 1 ROME W. THEES Ernesta Withers found | | | | |
| 2 Mildred Mitchell Dorothy Curtis | | | | |
| 3 Betty E. Weir | | | | |
| 4 Berneil Golden | | | | |
| 5 Nancy Young | | | | |
| 6 May Isom | | | | |
| 7 Margaret Adams | | | | |
| 8 Keamoy Mappule | | | | |
| 9 Douglas Farmer | | | | |

Personal Information redacted to protect privacy.

INFORMATION MEETING
FLOOD ARE - \$60 MILLION AWARD
SIGN IN SHEET
MITCHELL HIGH SCHOOL CAFETERIA

DATE
SEPT 28, 2017
5:00 PM - 7:30 PM

| NAME | ADDRESS | ORGANIZATION AND/ OR CHURCH | EMAIL | PHONE |
|-------------------------------|---------|--------------------------------|-------|-------|
| 1 Jim Vazquez | | | | |
| 2 John Medzelowski | | | | |
| 3 Joe Velly | | | | |
| 4 Edmund Ford Jr. | | | | |
| 5 Sam Polzin | | | | |
| 6 Alfred Garrett | | | | |
| 7 PAUL WARR | | | | |
| 8 Cedric Davis Luther Dell | | | | |
| 9 Rosetta Morgan | | | | |

Personal Information redacted to protect privacy.

INFORMATION MEETING
FLOOD ARE - \$60 MILLION AWARD
SIGN IN SHEET
MITCHELL HIGH SCHOOL CAFETERIA

DATE
SEPT 28, 2017
5:00 PM - 7:30 PM

| NAME | ADDRESS | ORGANIZATION AND/ OR CHURCH | EMAIL | PHONE |
|---|---------|--------------------------------|-------|-------|
| 1 Delores Hipford | | | | |
| 2 Sharon Ray Dag Hartay | | | | |
| 3 Kelvin M Meeks | | | | |
| 4 Eva Strong & Henry | | | | |
| 5 Alene C. Battles | | | | |
| 6 Curtis Seaton | | | | |
| 7 Elgin Birfield | | | | |
| 8 TILER M. MOORE, JR MS. ROCKWELL & FRED | | | | |
| 9 | | | | |

Personal Information redacted to protect privacy.

INFORMATION MEETING
FLOOD ARE - \$60 MILLION AWARD
SIGN IN SHEET
MITCHELL HIGH SCHOOL CAFETERIA

DATE
SEPT 28, 2017
5:00 PM - 7:30 PM

| NAME | ADDRESS | ORGANIZATION AND/ OR CHURCH | EMAIL | PHONE |
|---|---------|--------------------------------|-------|-------|
| 1 RONNIE BOLDEN | | | | |
| 2 RICHARD K. BOLLEN | | | | |
| 3 MARY NEWBERG | | | | |
| 4 GERALDINE B. McREYNOLDS Vernon College | | | | |
| 5 DELOROUS McREYNOLDS | | | | |
| 6 WILLIAM D. DINEEN | | | | |
| 7 CARI HARRIS | | | | |
| 8 STELLA JAMES | | | | |
| 9 ANDREW OWEN | | | | |

Personal Information redacted to protect privacy.

INFORMATION MEETING
FLOOD ARE - \$60 MILLION AWARD
SIGN IN SHEET
MITCHELL HIGH SCHOOL CAFETERIA

DATE
SEPT 28, 2017
5:00 PM - 7:30 PM

| NAME | ADDRESS | ORGANIZATION AND/ OR CHURCH | EMAIL | PHONE |
|-----------------------|---------|--------------------------------|-------|-------|
| 1 Katrina Harris | | | | |
| 2 Latonia Harris | | | | |
| 3 Antonio Lyons | | | | |
| 4 [Signature] | | | | |
| 5 Rep. Barbara | | | | |
| 6 Devin Jones | | | | |
| 7 Gwen W. [Signature] | | | | |
| 8 | | | | |
| 9 | | | | |

Personal Information redacted to protect privacy.

South Cypress Creek and West Junction Neighborhood Design Implementation Project

Public Workshop # 2

Tuesday, December 05, 2017

Mitchell High School Cafeteria, Memphis, TN

*ALL SIGN IN INFORMATION IS OPTIONAL

| Name | Email | Address | Phone | Organization (If attending in professional capacity) | Position | Resident of West Junction? |
|----------------------------|-------|---------|-------|---|----------|----------------------------------|
| Naomi Jackson | | | | | | Yes |
| Coleman Thompson | | | | | | No |
| Maggie Woodard | | | | | | Yes |
| Marcus Woodard | | | | | | Yes |
| Ada L. Olivi | | | | | | Yes |
| Jemel Whiting | | | | | | Yes |
| Charles Whiting | | | | | | Yes |
| Aisha Oliver-Young | | | | | | Yes |
| Maggie Wortu | | | | | | Yes |
| Candice Kerns | | | | | | Yes |
| Paul Warr | | | | | | Yes |
| Everett Doty | | | | | | Yes |
| Earnest Henderson | | | | | | Yes |
| Joseph Wrushen | | | | | | Yes |
| Dedrick Wrushen | | | | | | Yes |
| Virg/Niz Freeson | | | | | | Yes |
| Pat Ware | | | | | | Yes |
| Spencer Kaaz | | | | | | No |
| Chester Wrushen | | | | | | Yes |
| Booker T. Leigh | | | | | | No |
| Ruth S. Johnson | | | | | | |
| Otanetaraned | | | | | | Yes |
| Roy Sumners | | | | | | |
| Odessa McGoney | | | | | | Yes |
| Arthur Davis | | | | | | Yes |
| Ida Silcox | | | | | | |
| Brenda Wofford | | | | | | No |
| Gary Tuggers | | | | | | Yes |
| Geraldine S. Tokes | | | | | | Yes |
| Gregory S. Tokes | | | | | | |
| Cassix L. Jarvis | | | | | | Yes |
| Beth Flanagan | | | | | | |
| Austin Hamson | | | | | | |
| Wonder Bailey | | | | | | Yes |
| Mervell L. Bailey | | | | | | Yes |
| Rico-Roy Murray | | | | | | Yes |
| Rev Auvie Baka | | | | | | Yes |
| Marilyn Caston | | | | | | Yes |
| Charmaine Freeman | | | | | | Yes |
| Andrea Jacobo | | | | | | No |
| Lisa K. Guy | | | | | | |
| Damita Kerns | | | | | | No |
| Kare Sinelark | | | | | | Yes |
| Isabelle Jackson | | | | | | Yes |
| William & Michelle Blocker | | | | | | Yes |
| Adrian Killebrew | | | | | | |
| Elga Barfred | | | | | | |
| Valarie Stafford | | | | | | |
| Willie Stafford | | | | | | |
| Lena Ford | | | | | | |
| Wilbert Oliver | | | | | | |
| Chris Cryser | | | | | | |
| Jeffry Dato | | | | | | |
| Tremita Rae | | | | | | |
| Bachus Lenzine | | | | | | Yes |
| Darleen Jackson | | | | | | Yes |
| Glenda McClendon | | | | | | Yes |
| Gwen Wrushen Nelson | | | | | | |
| Mary Cheers | | | | | | |
| Demetra Doty | | | | | | Yes |
| Rev E.J. Hams, Sr | | | | | | No |
| Ricky Hunt | | | | | | Yes |
| Varise Phillips | | | | | | No |
| Rudith crs Foundation | | | | | | Yes |
| Michel Levis | | | | | | |
| Delois Bishop | | | | | | Yes |
| Ruthie Massey | | | | | | Yes |
| Davis Orange | | | | | | Yes |
| Rev. Vernal Smith | | | | | | Yes |
| Samuel Ford | | | | | | No |
| Bernard Fichalem | | | | | | Yes |
| Ossie Nicholson | | | | | | Yes |
| Rep. Barbara Cooper | | | | | | |
| Rosemary Mayfield | | | | | | |
| Alene C. Batthes | | | | | | |
| Desna Tavre | | | | | | Yes |
| Jasmin Tavre | | | | | | |
| Maniah Tavre | | | | | | |
| Carmen Tavre | | | | | | |
| Thecorove Franke | | | | | | |
| Jerry Britton | | | | | | Yes |
| Lina Street | | | | | | Yes |

Personal Information redacted to protect privacy.

| South Cypress Creek Public Hearing Thursday June 14, 2018 Mitchel High School Cafeteria 685 West Mitchell Road 5:30 p.m. - 7:00 p.m. | | | |
|---|---------|---------|-------|
| Name | Phone # | Address | Email |
| Kenneth Wilson | | | |
| Lassandra Smith | | | |
| Emma Smith | | | |
| Karen Sirbu | | | |
| Carl Butts | | | |
| Betty Marr | | | |
| JERRY Botton | | | |
| Vera Holmes | | | |
| Betty Gordon | | | |
| Blackthorn | | | |
| Shirley Meeks | | | |
| Brenda Wells | | | |
| Dorothy Meek | | | |
| Pat Ware | | | |
| Julia Wells | | | |
| Letra Jones | | | |
| Rubin Campbell | | | |
| Rose Wallace | | | |

Personal Information redacted to protect privacy.

12/1/18

| <div> <div>Thursday June 14, 2018</div> <div> <div>South Cypress Creek Public Hearing</div> <div>Mitchel High School Cafeteria 685 West Mitchell Road</div> <div>5:30 p.m. - 7:00 p.m.</div> </div> </div> | | | |
|--|---------|---------|-------|
| Name | Phone # | Address | Email |
| Jackie Oell | | | |
| Coenie Davis | | | |
| Addie Limer | | | |
| Mary Brack | | | |
| Mara Newberry | | | |
| Timothy Porter | | | |
| Danny Mitchell | | | |
| | | | |
| ADDED: | | | |
| Carolyn Taylor | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
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| | | | |
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| | | | |

Personal Information redacted to protect privacy.

| South Cypress Creek Public Hearing Thursday June 14, 2018 Mitchell High School Cafeteria 685 West Mitchell Road 5:30 p.m. - 7:00 p.m. | | | |
|--|---------|---------|-------|
| Name | Phone # | Address | Email |
| Rita Bang | | | |
| Evelyn Kellum | | | |
| Ann Anderson | | | |
| Ken Martin | | | |
| Kathleen Kellum | | | |
| Melinda Martin | | | |
| Edwarda Cla | | | |
| Thelma Robinson | | | |
| Jeanette You | | | |
| Janice Wilson | | | |
| Johnny Wilson | | | |
| Beverly Harris | | | |
| James Henderson | | | |
| Betty Collins | | | |
| Sara Han | | | |
| Memell Baily | | | |
| James Johnson | | | |
| Edward Phillips | | | |

Personal Information redacted to protect privacy.

| South Cypress Creek Public Hearing Thursday June 14, 2018 Mitchel High School Cafeteria 685 West Mitchell Road 5:30 p.m. - 7:00 p.m. | | | |
|---|---------|---------|-------|
| Name | Phone # | Address | Email |
| Christine West | | | |
| Carol W. Hugel | | | |
| Clara Dargatzis | | | |
| Sabrina Jackson | | | |
| Mildred Michael | | | |
| Ricky Hunt | | | |
| April Harris | | | |
| Georgina Kisker | | | |
| Gwen W. Warden | | | |
| Letitia Britton | | | |
| Kelvin Meach | | | |
| Coraline H. Do | | | |
| Marlyn Ward | | | |
| George Ward | | | |
| Desma Turner | | | |
| Linda Street | | | |
| Martha Martin | | | |
| XXXXXXXXXX | | | |

Personal Information redacted to protect privacy.

South Cypress Creek Public Meeting #4

Thursday July 26, 2018 Mitchell High School Cafeteria 685 West Mitchell Road 5:30 - 7:00 PM

| First Name | Last Name | Phone | Address | Zip Code | Email |
|------------|-----------|-------|---------|----------|-------|
|------------|-----------|-------|---------|----------|-------|

| | | | | | |
|--------------|------------|--|--|--|--|
| Pat | Ware | | | | |
| | Finklea | | | | |
| Danny | Mitchell | | | | |
| Karen | Sinclair | | | | |
| Ashley | Carter | | | | |
| Cassandra | Smith | | | | |
| Jenetta | Wilson | | | | |
| Cassandra | Smith | | | | |
| Angela | Wilson | | | | |
| James | Henderson | | | | |
| Latwana | Jones | | | | |
| Georgia | Askew | | | | |
| Ramona | Jones | | | | |
| Ricky | Hunt | | | | |
| Edward | Phillips | | | | |
| Edgar | Hunt, Jr. | | | | |
| Mervell | Bailey | | | | |
| Eva | Strong | | | | |
| Geraline | McDonald | | | | |
| Carolyn | Taylor | | | | |
| Henry | Taylor | | | | |
| Clara | Dorsey | | | | |
| Arneisha | Ahen | | | | |
| Wanda | Marchic | | | | |
| Elisha | Campbell | | | | |
| Erica | Hardwa | | | | |
| Linda | Street | | | | |
| David | Piere | | | | |
| Edna | Moore | | | | |
| Katrena | Harris | | | | |
| Bertha | Hardaway | | | | |
| Ruthie | Fitzgerald | | | | |
| Pastor Georg | Ward | | | | |
| Clararetha | Cleaves | | | | |
| Thelma | Robinson | | | | |
| Desma | Turner | | | | |
| Beverly | Harris | | | | |
| Foxy | Brown | | | | |
| Vera | Holmes | | | | |
| Mildred | Mitchell | | | | |
| Rosalinor | Ballintine | | | | |
| Patrick | Smith | | | | |
| April | Wright | | | | |
| Leonia | Turner | | | | |
| James | Johnson | | | | |
| R. | Akbari | | | | |
| Loretta | Vanderbilt | | | | |
| Gwen Wrusn | Nelson | | | | |
| Jennie | Thornton | | | | |
| Betty | Marr | | | | |
| Carl | Butts | | | | |

Personal Information redacted to protect privacy.