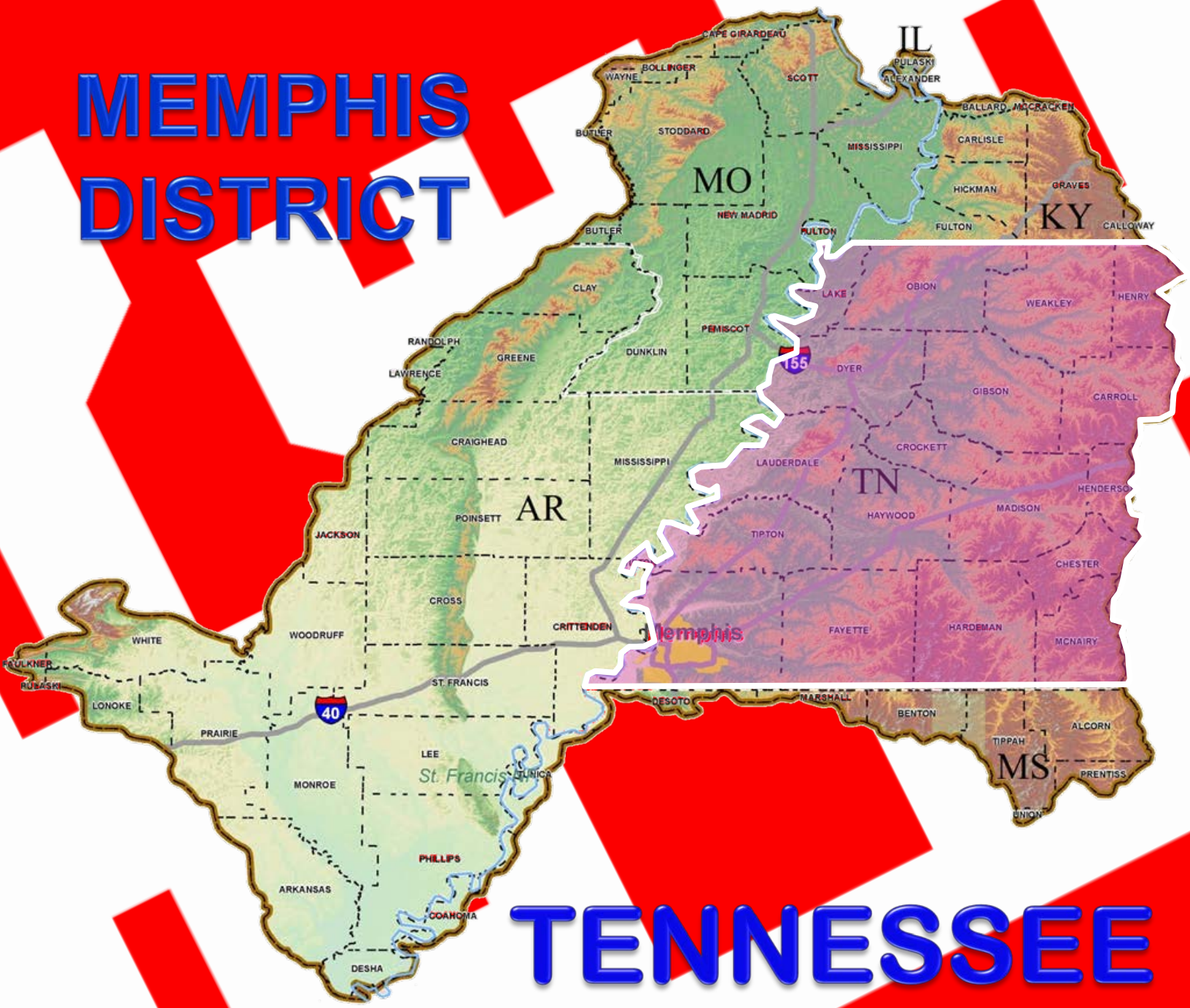
US Army Corps of Engineers

BUILDING STRONG®

# MEMPHIS DISTRICT




# TENNESSEE PROJECTS

US Army Corps of Engineers®
Memphis District

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US Army Corps of Engineers®
Memphis District

# MEMPHIS DISTRICT OVERVIEW

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The Memphis District was established in 1882, and is one of six districts in U.S. Army Corps of Engineers' Mississippi Valley Division. Encompassing almost 25,000 square miles, the Memphis District is responsible for federal civil works projects in portions of six states -- Arkansas, Kentucky, Illinois, Mississippi, Missouri and Tennessee.

Commanded by Col. Jeffery A. Anderson, the district employs about 500 federal civil service workers. These professionals and craftsmen provide a broad range of technical capabilities to address the Mid-South region's water resource needs. The Memphis District team includes civil, electrical, structural and mechanical engineers, as well as biologists, economists, clerical workers and many skilled laborers.

**Memphis District**

**District Employees**

In addition to our downtown Memphis headquarters located in the Clifford Davis/Odell Horton Federal Building, we also have river engineering and marine mooring facilities at Ensley Engineer Yard in south Memphis at McKellar Lake. Field offices are located in Wynne, Arkansas, and Caruthersville and East Prairie, Missouri.

**Ensley Engineer Yard**

The district has three major mission areas – flood risk management, navigation and environmental stewardship – with our total civil works program averaging more than $100 million a year.

# MEMPHIS DISTRICT OVERVIEW

## (Continued)



**Dredging for Navigation**

On the Mississippi River, the Memphis District maintains a minimum 9-foot-deep, 300-foot-wide navigation channel. The Mississippi River is the heart of a vast inland navigable waterway system that extends for 12,350 miles. Channel improvements and maintenance dredging are primary tools for keeping the Mississippi open. More than 250 million tons of river-borne commodities pass through the district's reach of the river each year.

**Emergency Management**

In addition to our main channel navigation and flood risk reduction work, we also provide Emergency Operations planning and response services through our Readiness Branch for natural disasters like floods, hurricanes, earthquakes, tornadoes, and man-made disasters.

**Students in the STEM Program meet with Memphis District biologists**

Overall, the Memphis District is a multi-talented public engineering agency that can solve a variety of civil works problems. We assist other government agencies with their engineering challenges through our "Support for Others Program," and we contribute volunteer community services to the people of the Mid-South. We are also active participants in the Science, Technology, Engineering and Math (STEM) program. The District is a valuable resource, and we will help the people of the six states we serve meet the civil works challenges they face.

Public safety is the Corps' number one priority. Our pledge is to meet the public engineering needs of your constituents with dedication and professionalism.

US Army Corps of Engineers® Memphis District

# MISSISSIPPI VALLEY DIVISION

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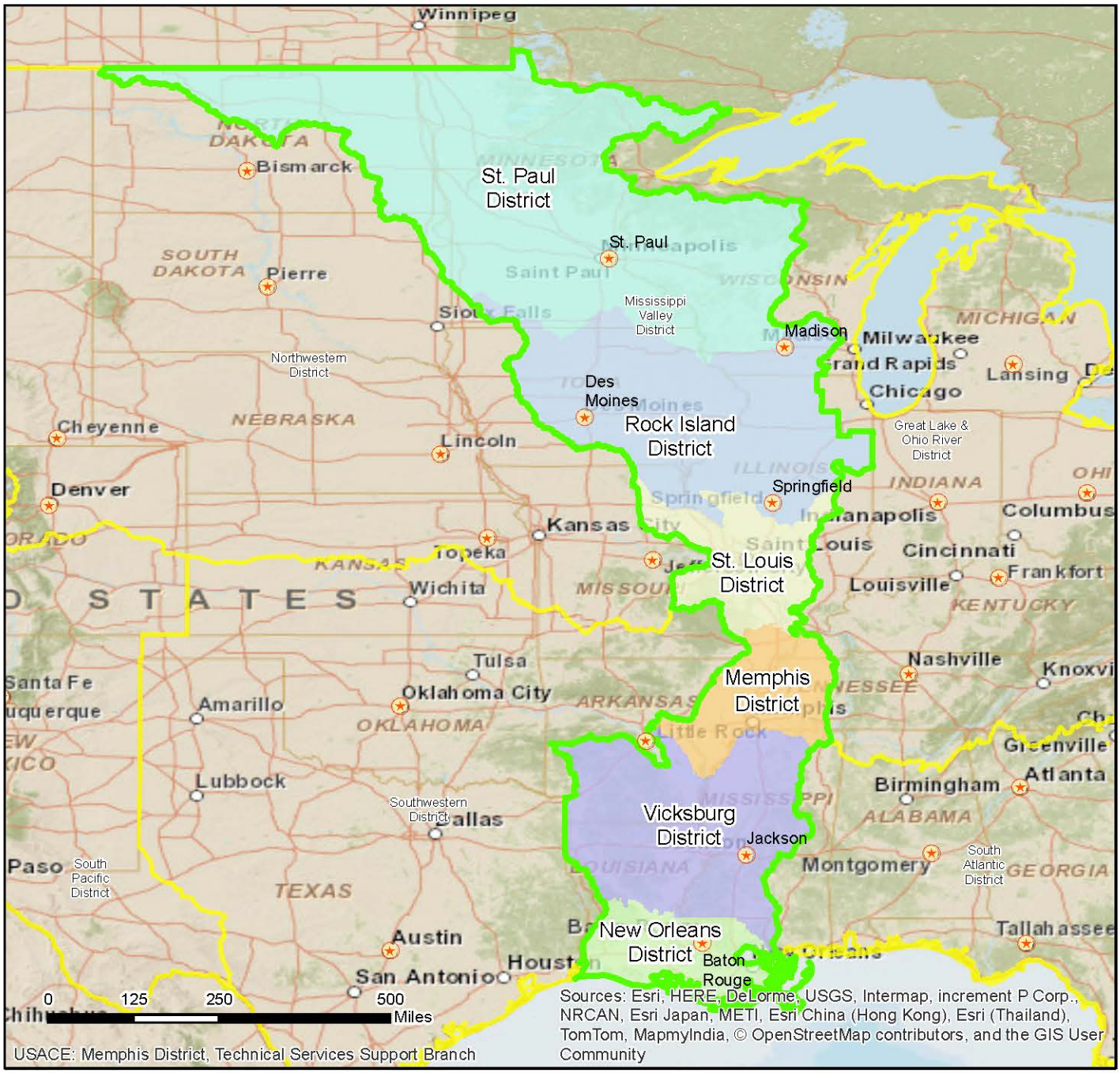
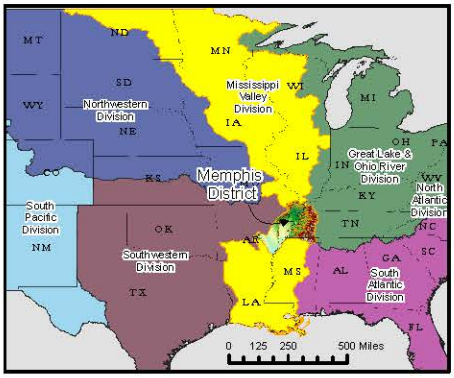



## Vicinity Map


## Legend

- Mississippi Valley Division
- St. Paul District
- Rock Island District
- St. Louis District
- Memphis District
- Vicksburg District
- New Orleans District

## Location in the Division

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US Army Corps of Engineers® Memphis District

# CONGRESSIONAL DISTRICTS WITHIN MEMPHIS DISTRICT AREA OF RESPONSIBILITY

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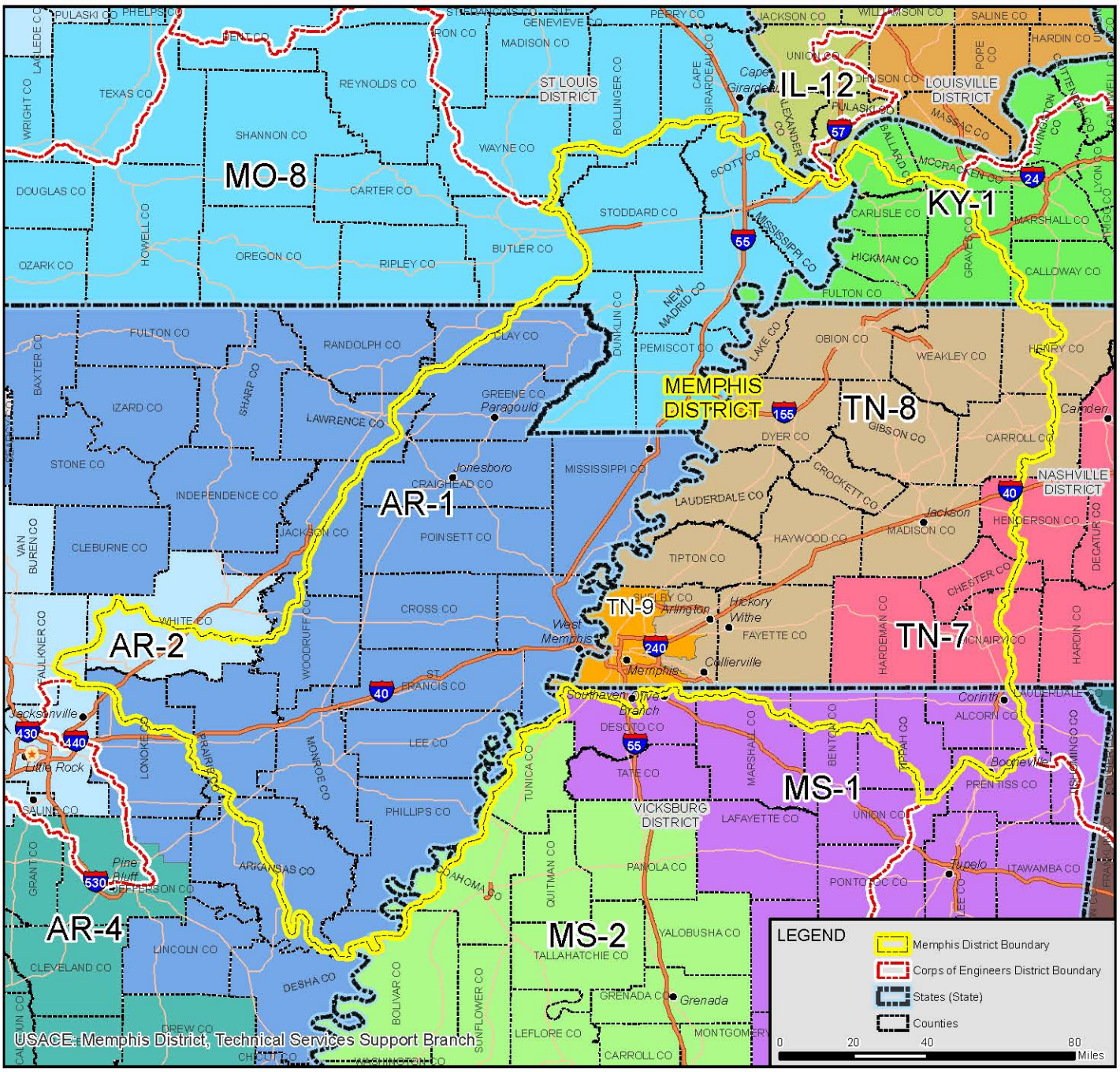


***ARKANSAS***
GOV. Mike Beebe (D)
SEN. Mark Pryor (D)
SEN. John Boozman (R)
REP. Rick Crawford (R AR - 1 )
REP. Tim Griffin (R AR - 2 )

***ILLINOIS***
GOV. Pat Quinn (D)
SEN. Richard J. Durbin (D)
SEN. Mark S. Kirk (R)
REP. William Enyart (D IL - 12 )

***KENTUCKY***
GOV. Steven L. Beshear (D)
SEN. Mitch McConnell (R)
SEN. Randal Howard "Rand" Paul (R)
REP. Edward Whitfield (R KY - 1 )

***MISSISSIPPI***
GOV. Phil Bryant (R)
SEN. Thad Cochran (R)
SEN. Roger Wicker (R)
REP. Alan Nunnelee (R MS - 1 )
REP. Bennie Thompson (D MS - 2 )

***MISSOURI***
GOV. Jay Nixon (D)
SEN. Claire McCaskill (D)
SEN. Roy Blunt (R)
REP. Jason Smith (R MO - 8 )

***TENNESSEE***
GOV. Bill Haslam (R)
SEN. Lamar Alexander (R)
SEN. Bob Corker (R)
REP. Marsha Blackburn (R TN - 7 )
REP. Stephen Fincher (R TN - 8 )
REP. Steve Cohen (D TN - 9 )

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Last Update: 1 December 2014

US Army Corps of Engineers®
Memphis District

# Dyer County Little Levee, TN

BUILDING STRONG®

**Point of Contact**
**Clyde Hunt,** Project Manager,,
Ph. (901) 544-3115
clyde.e.hunt@usace.army.mil

**Authority:** USACE has authority under Public Law 84-99, Flood Control and Coastal Emergencies (FCCE) (33 U.S.C. 701n) (69 Stat. 186) for emergency management activities. Under PL 84-99, the Chief of Engineers, acting for the Secretary of the Army, is authorized to undertake activities including disaster preparedness, Advance Measures, emergency operations (Flood Response and Post Flood Response), rehabilitation of flood control works threatened or destroyed by flooding, etc. The flood system would be restored to its pre-disaster status at no cost to the Federal system owner, and at 20 percent cost to the eligible non-Federal system owner. All systems considered eligible for PL 84-99 rehabilitation assistance have to be in the Rehabilitation and Inspection Program (RIP) prior to the flood event. The FCCE Act established an emergency fund for rehabilitation of flood control structures. However, funds to repair the Dyer County Little Levee due to the 2011 Flood are being provided by the 2012 Disaster Relief Act.

**Appropriation:** Energy and Water Development, Flood Control and Coastal Emergency

**Local Interest/Project Sponsor:** Dyer County Levee and Drainage District No. 1. A Project Partnership Agreement was executed on 16 March 2012.

**Location:** The levee is located in southwest Dyer County, Tennessee near the Obion River. The non-Federally constructed levee extends along the left bank of the Mississippi River. The levee begins at the Mainline Levee just east of Boothspoint and extends from Boothspoint to the Obion River, between River Miles 820 and 840. At the Obion River the levee turns eastward along the top bank of the Obion River until it intersects with the Mainline Levee.

**Description**: The levee is 20 miles in length and ranges from 6 to 12 feet in height. The damages sustained in the 2011 Flood consist of 24 breaches as a result of overtopping and 1 controlled breach. The repairs consist of constructing a full levee cross section with a 15-ft crown width and 3:1 side slopes with a new alignment around the deep scour holes. The work also includes repairs of levee breaches and restores the levee to the pre-flood event condition in the remaining breaches. Borrow material will be obtained from material that was deposited on land within the levee right-of-way.

**Importance:** Without repair, the levee would be susceptible to flooding due to high water events along the Mississippi River. The levee protects approximately 12,000 acres, 30 homes, 2 businesses, a church, and 41 farm buildings. It is estimated that more than 80 people reside within the area.

**Status:** Contracts have been issued and construction is underway on the northern realignment and the culvert replacement. The Project Sponsor is constructing the Choctaw segment. Construction is scheduled to be completed in 2015.

**Issues and Other Information:** Construction of the levee was completed around 1940, except in the reach along the Obion River, which was added in the early 1970s. Since being constructed, documents show the levee requiring repairs due to flooding three times, 1973, 1974, and 1976. While in the RIP program, three set back levees have been constructed during the life of the project. Those were constructed in 1975, 1988 and 1989. Also, emergency bank protection and levee grade raise have also been constructed.

**Project Financial Data[1]:**

| | |
|---|---|
| Estimated Federal Cost: | $3,783,700 |
| Estimated Non-Federal Cost: | $945,900 |
| Estimated Total Cost: | $4,729,600 |

**Federal Funding Information:**

| | |
|---|---|
| Allocation thru FY 2013 | $3,516,000 |
| Allocation for FY 2014 | 267,700 |
| President's Budget, FY 2015 | 0 |

[1] *Disaster Relief Act Allocation.*

Northern Realignment Levee Segment

US Army Corps of Engineers® Memphis District

# DYER COUNTY LITTLE LEVEE, TENNESSEE

## SECTION 205

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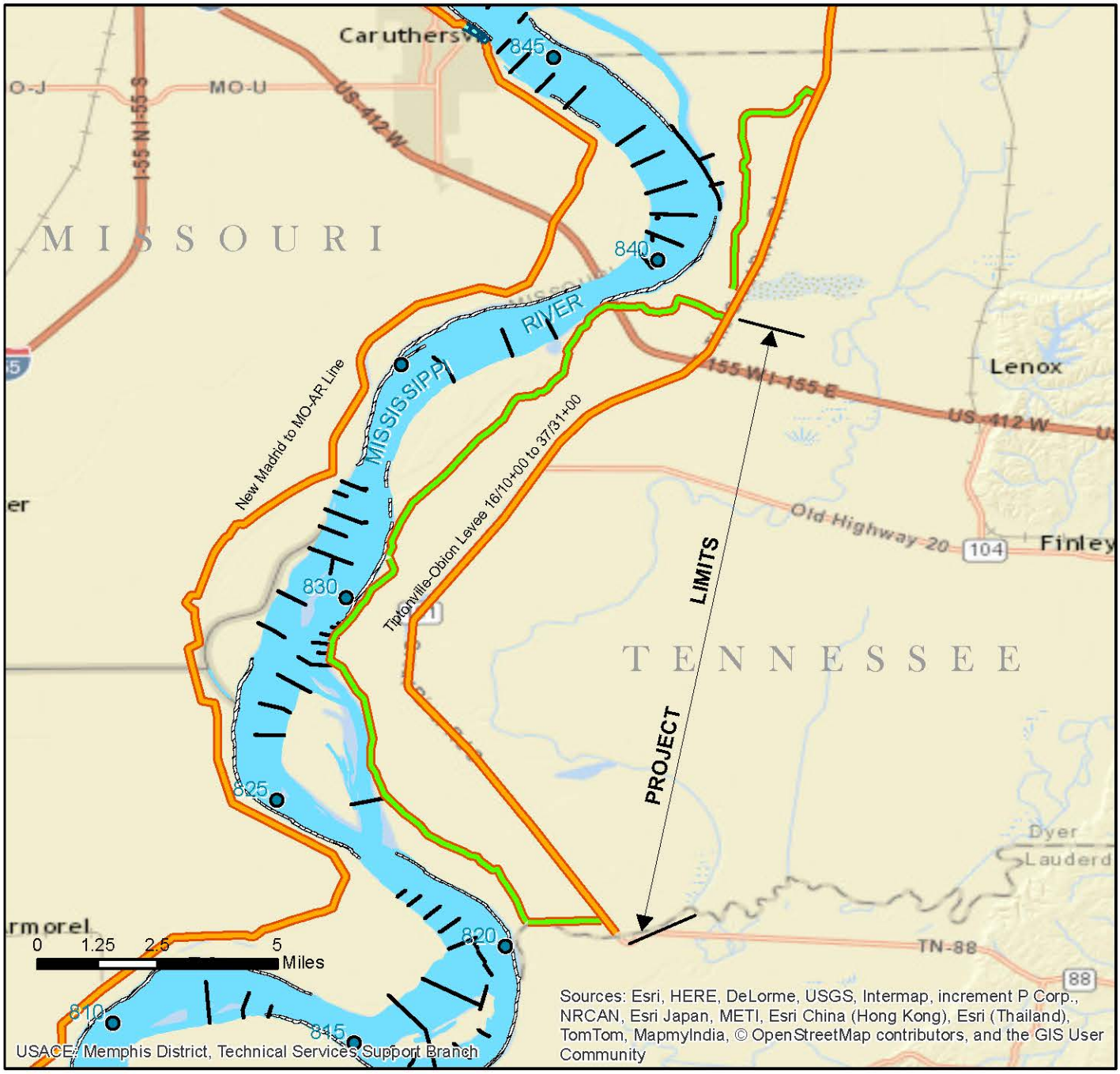
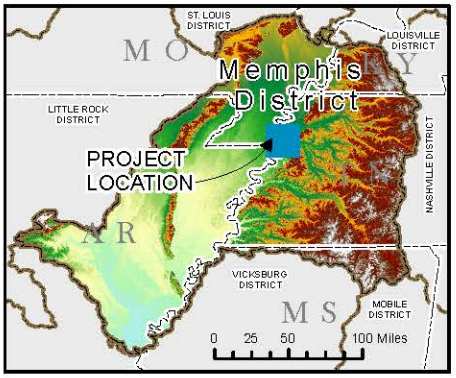



### Vicinity Map


### Legend

- LEVEE
- PRIVATE LEVEE
- DIKES
- FLOODWALL
- REVETMENT
- RIVER MILES

### Location in District

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US Army Corps of Engineers®
Memphis District

# Ensley Levee, TN

BUILDING STRONG®

**Point of Contact**
**Dewey Powell,** Project Manager,
Ph. (901) 544-3940
dewey.l.powell@usace.army.mil

**Authority:** United States Army Corps of Engineers has authority under Public Law (PL) 84-99, Flood Control and Coastal Emergencies (FCCE) (33 U.S.C. 701n) (69 Stat. 186) for emergency management activities. Under PL 84-99, the Chief of Engineers, acting for the Secretary of the Army, is authorized to undertake activities including disaster preparedness, Advance Measures, emergency operations (Flood Response and Post Flood Response), rehabilitation of flood control works threatened or destroyed by flooding, etc. All systems considered eligible for PL 84-99 rehabilitation assistance have to be in the Rehabilitation and Inspection Program (RIP) prior to the flood event. The FCCE Act established an emergency fund for rehabilitation of flood control structures. However, funds to repair the Ensley Levee due to the 2011 Flood are being provided by the 2012 Disaster Relief Act (DRA).

**Appropriation:** Energy and Water Development, Flood Control and Coastal Emergency

**Local Interest/Project Sponsor:** The Memphis and Shelby County Port Commission.

**Location:** Ensley Levee and berm are part of the Mississippi River Mainline Levee located in southwest Memphis in Shelby County, Tennessee, at River Mile 722 left descending bank of the Mississippi River.

**Description**: The Federally constructed Ensley levee protects approximately 5,000 acres, 4,000 of which are industrial development lands. The levee is 11 miles in length, and protects several large industrial facilities located in the Frank C. Pigeon Industrial Area. The levee extends from high ground (Riverport Road) to high ground (Ensley Pumping Station) and is a complete integrated system. The seepage berm is approximately 7 miles in length. Repairs are required to approximately 50 feet of the existing landside berm and construction of relief wells due to significant deterioration from seepage during the 2011 Flood.

**Importance:** The levee protects about 25 structures with an estimated value of $550,000,000. The estimated annual economic impact of Industry behind the levee is $561,000,000. The structures include a steel plant and a city of Memphis waste water treatment plant. There are approximately 1,000 people working behind this levee.

**Status:** Berm construction (Phase 1) was completed 22 August 2013. The Project Information Report was amended to include construction of relief wells (Phase 2) and was approved 11 March 2014. Plans and specifications (P&S) for the relief wells was initiated in April 2014. Design is estimated to cost $712,000. Design will be completed and a construction contract will be awarded for the relief wells pending funding in Fiscal Year 2015.

**Issues and Other Information:** The Corps of Engineers constructed the levee in 1993 and the Memphis and Shelby County Port Commission and city of Memphis, TN assumed operation and maintenance responsibilities. Although this levee system is non-Federally owned, operated and maintained, it is eligible for repairs under Public Law 84-99 at 100 percent Federal expense since it was Federally constructed.

| **Project Financial Data:** [1] | Phase 1 and 2 |
|---|---|
| Estimated Federal Cost: | $ 10,494,000 |
| Estimated Non-Federal Cost: | 0 |
| Estimated Total Cost: | $ 10,494,000 |

| **Federal Funding Information:** | |
|---|---|
| Allocation thru FY 2013 | $ 989,000 |
| Allocation for FY 2014 | 335,000 |
| President's Budget, FY 2015 | 0 |

[1] *Disaster Relief Act*
[2] *Phase 1 actual cost $607,000; Phase 2 estimated cost $9,824,000*

Ensley Levee Seepage Berm Repair, Shelby County, TN

US Army Corps of Engineers®
Memphis District

# ENSLEY LEVEE, MEMPHIS, TN

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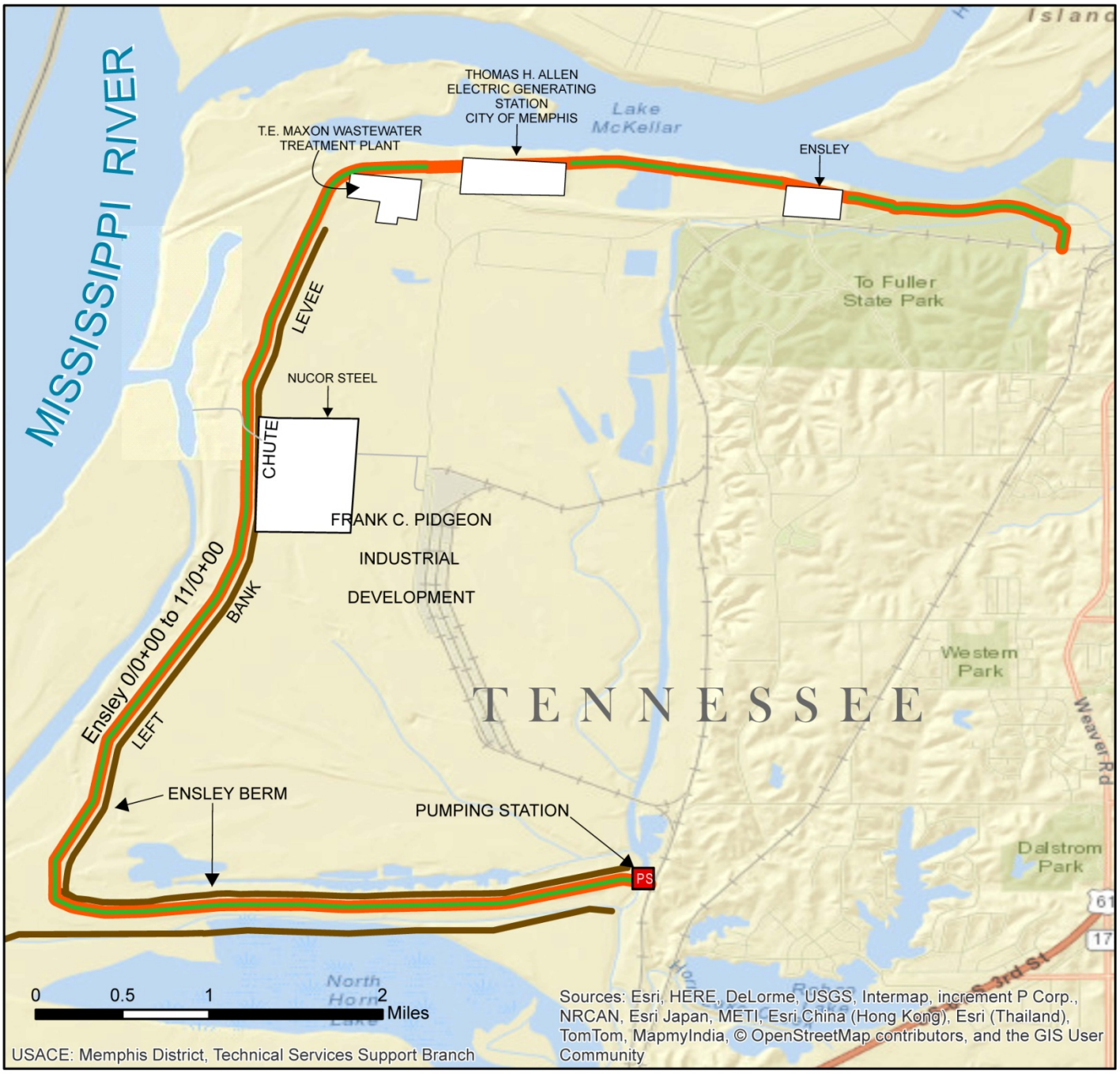
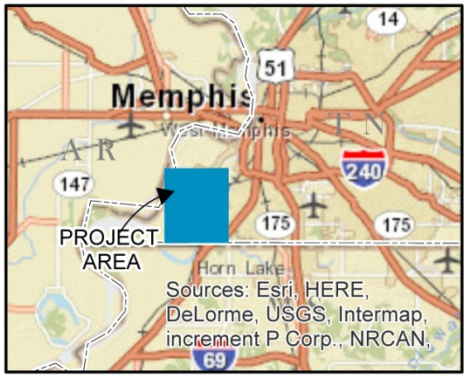


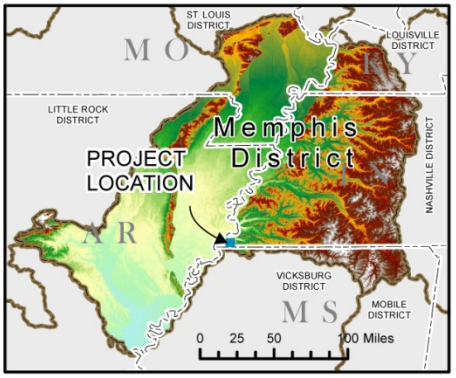

## Vicinity Map




## Legend

- PS — Pump Stations
- Ensley Levee
- Study Limits
- Fill

## Location in District

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US Army Corps of Engineers®
Memphis District

# Germantown Lateral D, TN

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**Point of Contact**
**Clyde Hunt,** Project Manager,
Ph. (901) 544-3115
clyde.e.hunt@usace.army.mil

**Authority:** Flood Control Act of 1946, Sec. 14, as amended; Water Resources Development Act (WRDA) 2007, Sec. 1003 (Continuing Authorities Projects Not Requiring Specific Legislation)

**Appropriation:** Energy and Water Development, Construction, Sec. 14

**Local Interest/Project Sponsor:** City of Germantown, Tennessee, is the cost-sharing sponsor.

**Location:** The study area is located in the City of Germantown, in Shelby County, Tennessee, about 0.75 miles east of the Farmington Boulevard / Allenby Road intersection.

**Description**: This project addresses the protection of a box culvert. The proposed project consists of an interlocking concrete block channel with an energy dissipating stilling basin and streambank stabilization downstream of the box culvert.

**Importance:** Erosion problems on Lateral D are a continuing concern for the City of Germantown because a box culvert located underneath Farmington Boulevard has the potential of failure.

**Status:** Funds appropriated in Fiscal Year 2014 are being used to complete construction. Contract award was 31 July 2014 and construction was initiated in September 2014. Construction will be completed in 2015.

**Issues and Other Information:** The possibility of protection of a sewer crossing is being investigated as a separate Section 14 study.

**Project Financial Data[1]:**

| | |
|---|---|
| Estimated Federal Cost | $ 946,100 |
| Estimated Non-Federal Cost | 486,100 |
| Estimated Total Cost[1]: | $ 1,365,300 |

**Federal Funding Information:**

| | |
|---|---|
| Allocations thru FY 2013 | $ 166,100 |
| Allocation for FY 2014 | 778,900 |
| President's Budget, FY 2015 | N/A |

*[1]Includes Feasibility and Design/Implementation (Construction) costs.*

**Box culvert and concrete chute for Farmington Blvd**

US Army Corps of Engineers®
Memphis District

# LATERAL "D" GERMANTOWN, TN
## SECTION 14

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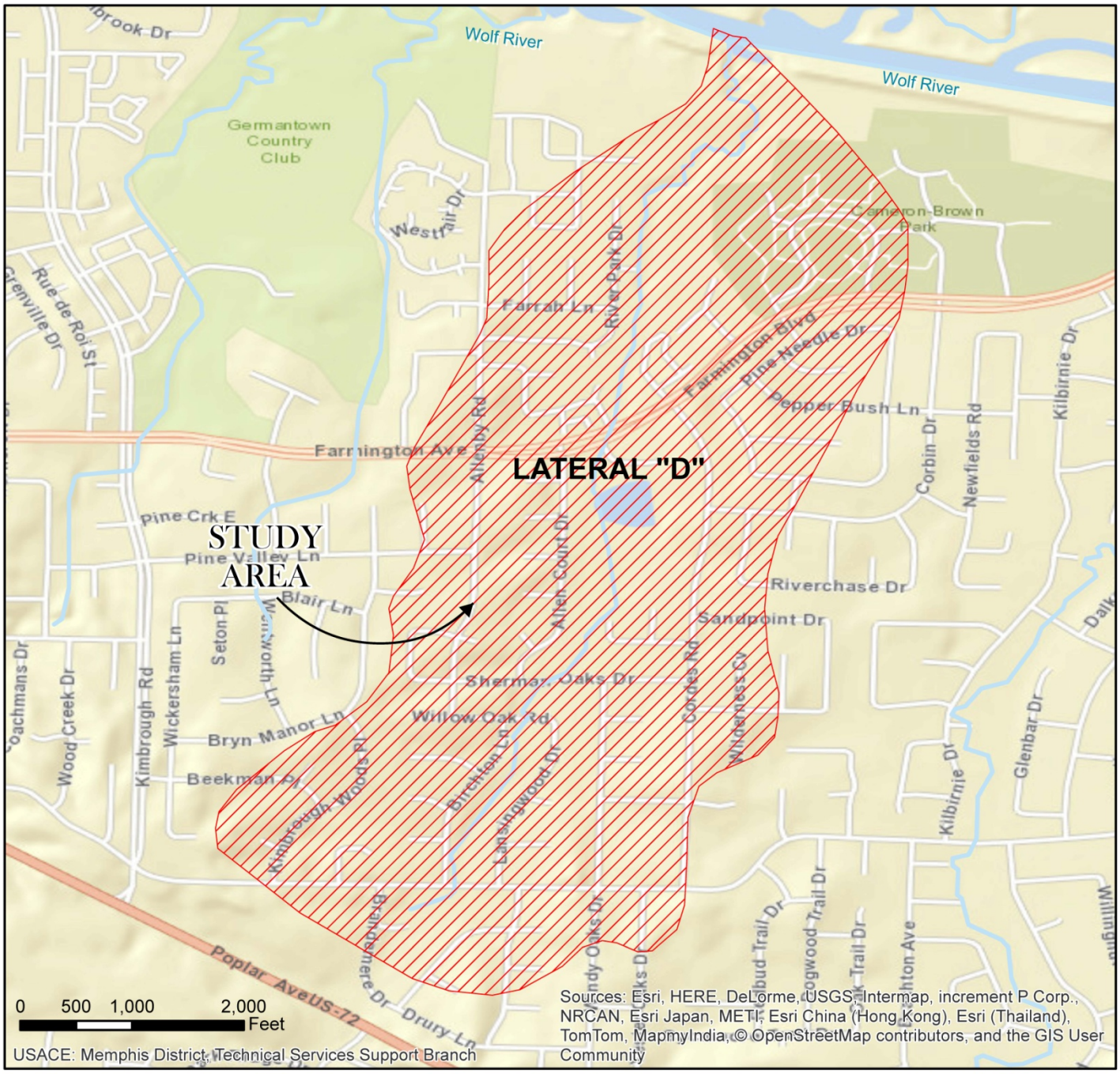
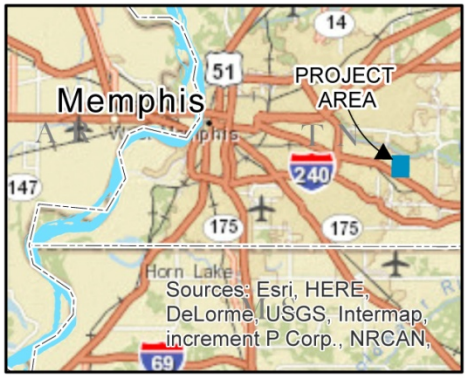


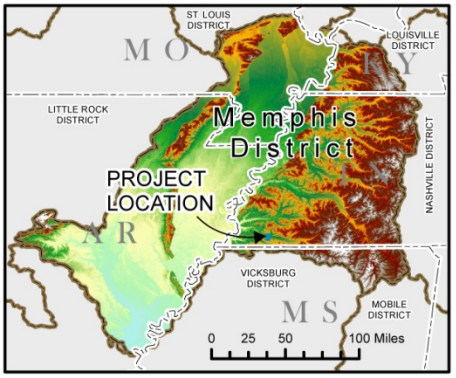

### Vicinity Map




### Legend

- Study Area
- Highway
- Major Roads
- Local Roads

### Location in District

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US Army Corps of Engineers®
Memphis District

# Germantown Sewer Crossing Utility, TN

BUILDING STRONG®

**Point of Contact**
**Jackie Whitlock,** Project Manager,
Ph. (901) 544-3832
Jackie.s.whitlock@usace.army.mil

**Authority:** Flood Control Act of 1946, Sec. 14, as amended; Water Resources Development Act (WRDA) 2007, Sec. 1003 (Continuing Authorities Projects Not Requiring Specific Legislation)

**Appropriation:** Energy and Water Development, Construction, Sec. 14

**Local Interest/Project Sponsor:** City of Germantown, Tennessee, is the potential cost-sharing sponsor.

**Location:** The study area is located in the city of Germantown, in Shelby County, Tennessee, about 3,500 feet east of the intersection of Kimbrough Road and Farmington Blvd.

**Description**: Erosion problems, along a major lateral that flows through the city, is threatening a force main interceptor sewer line.

**Importance:** The integrity of the sanitary sewer crossing could become further endangered with the next flood event.

**Status:** Prior year funds are being used to complete the feasibility study which cost $140,000 ($120,000 Federal and $20,000 Non-Federal). The Planning Design and Analysis Report was approved in August 2014.

**Issues and Other Information:** The first $100,000 cost of a feasibility study is 100 percent Federal and only costs that exceed $100,000 are cost-shared 50 percent, 50 percent with a non-Federal sponsor.

**Study Financial Data:**

| | |
|---|---|
| Estimated Federal Cost | $ 1,181,000 |
| Estimated Non-Federal Cost | 636,000 |
| Estimated Total Cost[1] | $ 1,817,000 |

**Federal Funding Information:**

| | |
|---|---|
| Allocations thru FY 2013 | $ 0 |
| Allocation for FY 2014 | 0 |
| President's Budget, FY 2015 | N/A |

[1] *Does not include $140,000 for study activities*

Failure at Sewer Siphon Protection

US Army Corps of Engineers®
Memphis District

# GERMANTOWN SEWER CROSSING, TENNESSEE

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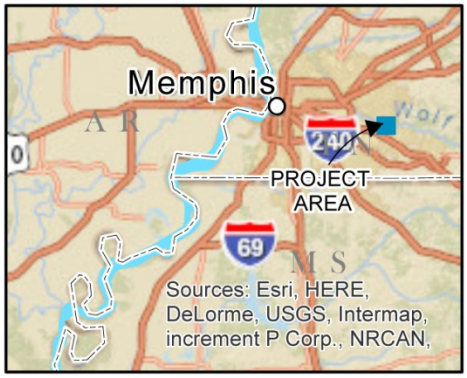
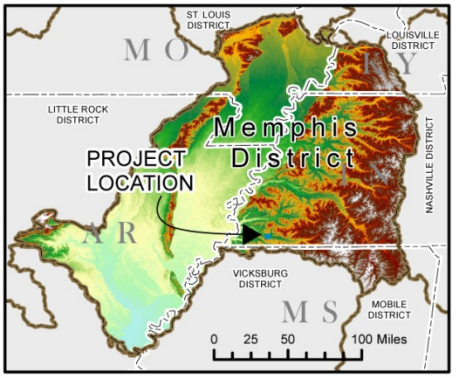
## Vicinity Map




## Legend

- Study Area
- Highway
- Major Roads
- Local Roads

## Location in District

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US Army Corps of Engineers®
Memphis District

# Memphis Harbor (McKellar Lake), TN

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**Point of Contact**
**Vickie Watson,** Project Manager,
Ph. (901) 544-3986
Vickie.L.Watson@usace.army.mil

**Authority:** Flood Control Act of 15 May 1928, H. D. 90/70/1, as amended by subsequent acts, as modified and expanded by S. D. 51/80/1, approved 24 July 1946.

**Appropriation:** Energy and Water Development, Mississippi River and Tributaries, Maintenance

**Local Interest/Project Sponsor:** Memphis and Shelby County Port Commission

**Location:** This harbor is located near Memphis at Mississippi River Mile 725.5, in Shelby County, Tennessee.

**Description:** The project provides maintenance dredging to provide barge traffic year round access to harbor facilities. The navigation channel extends 7.5 miles into the harbor with a 12-foot project depth and 300 to 500-foot width at various locations.

**Importance:** Several industries are impacted by not fully dredging this harbor, including the Tennessee Valley Authority (TVA) and Valero Petroleum (which provides fuel to Memphis International Airport).

**Status:** Funds appropriated in Fiscal Year 2014 are being used to collect survey data and to provide limited dredging in the harbor. The harbor dredging contract was awarded in Mid 2014 and limited dredging activities were completed in late 2014.

**Issues and Other Information:** Maintenance and funding requirements vary from year to year depending on current harbor conditions and current prices for dredging services, respectively.

**Project Financial Data:**

| | | |
|---|---|---|
| Allocation for FY 2013: | $ | 613,000 |
| Allocation for FY 2014: | | 2,303,000 |
| House Budget, FY 2015 | | 1,642,000 |
| President's Budget Request, FY 2015: | | 1,642,000 |

**Disaster Relief Act Funding:**

| | | |
|---|---|---|
| Allocation thru FY 2013 | $ | 7,200,000 |
| Allocation for FY 2014 | | 0 |

Memphis Harbor, McKellar Lake, TN

US Army Corps of Engineers®
Memphis District

# MEMPHIS HARBOR (MCKELLAR LAKE), TN
## MAINTENANCE DREDGING

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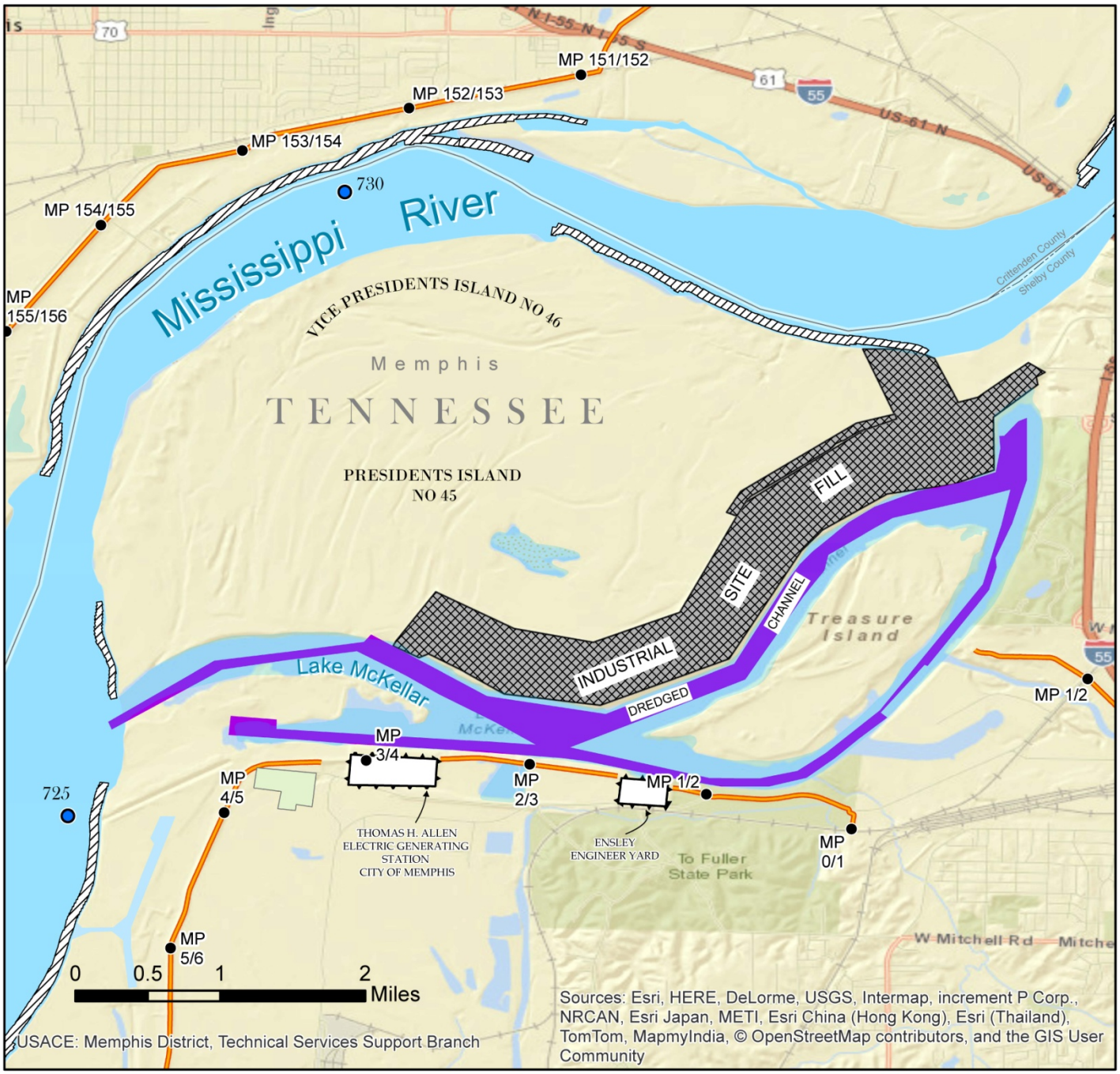
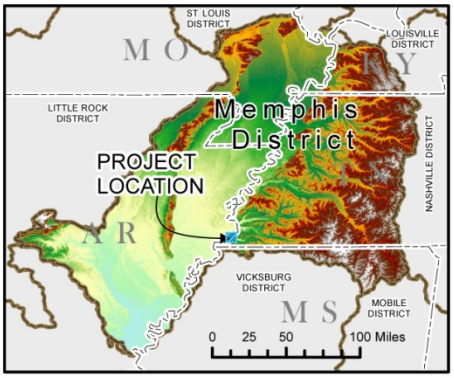



### Vicinity Map


### Legend

- Dredging Channel
- Revetments
- Industrial Fill
- County Boundary
- Levee
- State Boundary
- River Miles
- Levee Mile Post

### Location in District

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US Army Corps of Engineers®
Memphis District

# Memphis Metropolitan Area Storm Water Management, TN & MS

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**Point of Contact**
**Daniel Ward,** Project Manager,
Ph. (901) 544-0709
daniel.d.ward@usace.army.mil

**Authority:** U.S. House Committee on Transportation and Infrastructure Resolution dated 7 March 1996.

**Appropriation:** Energy and Water Development, Mississippi River and Tributaries, Investigations

**Local Interest/Project Sponsor:** The West Tennessee River Basin Authority is the potential sponsor for the Cypress Creek feasibility study.

**Location:** The study area includes all or part of five counties: Shelby, Tipton and Fayette Counties in southwest Tennessee; DeSoto and Marshall Counties in northwest Mississippi. It encompasses all or part of six major drainage basins which are tributaries of the Mississippi River, Hatchie River, Loosahatchie River, Wolf River, Nonconnah Creek, Horn Lake Creek, and Coldwater River. The area of study includes approximately 2,600 square miles and drains an urban area of over one million people.

**Description**: The purpose of the study is to evaluate the need for improvements for flood control, ecosystem restoration, water quality, and related purposes associated with storm water runoff and management. Cypress Creek, a tributary of the Loosahatchie River in Fayette County, Tennessee, is the current focus of an ecosystem restoration study.

**Importance:** Past channelization and development in the area has resulted in habitat degradation. The streambed is unstable, wetlands are being dewatered and water quality and aquatic habitat is compromised.

**Status:** Funds were used to prepare documentation that supported execution of a Feasibility Cost Sharing Agreement on the Cypress Creek watershed. Funds of $216,000 have been reallocated to the Cypress Creek, Tennessee feasibility study.

**Issues and Other Information:** No potential sponsor has the ability to fund a comprehensive feasibility study of the entire area; therefore, the project is being broken into smaller studies for distinct project areas (Cypress Creek, Tennessee; North Shelby County, Tennessee; and North Desoto County, Mississippi.).

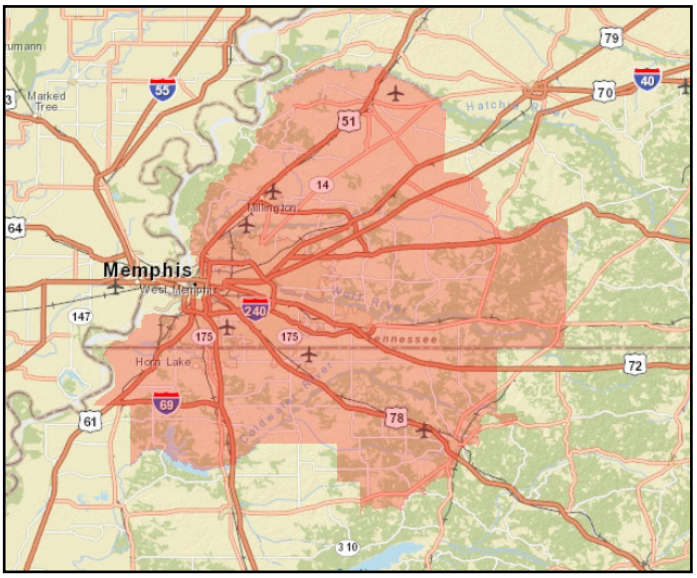
**Study Financial Data[1]:**

| | |
|---|---|
| Estimated Federal Cost | $ 3,100,000 |
| Estimated Non-Federal Cost | 2,800,000 |
| Estimated Total Cost[1] | $ 5,900,000 |

**Federal Funding Information:**

| | |
|---|---|
| Allocations thru FY 2013 | $ 770,700 |
| Allocation for FY 2014 | 100,000 |
| President's Budget, FY 2015 | 0 |
| House Report, FY 2015 | 0 |

[1] *Includes both Recon and Feasibility costs for all studies that may be executed under this authority.*



Memphis Metropolitan Storm Water area

US Army Corps of Engineers® Memphis District

# MEMPHIS METROPOLITAN AREA STORM WATER MANAGEMENT, TN & MS

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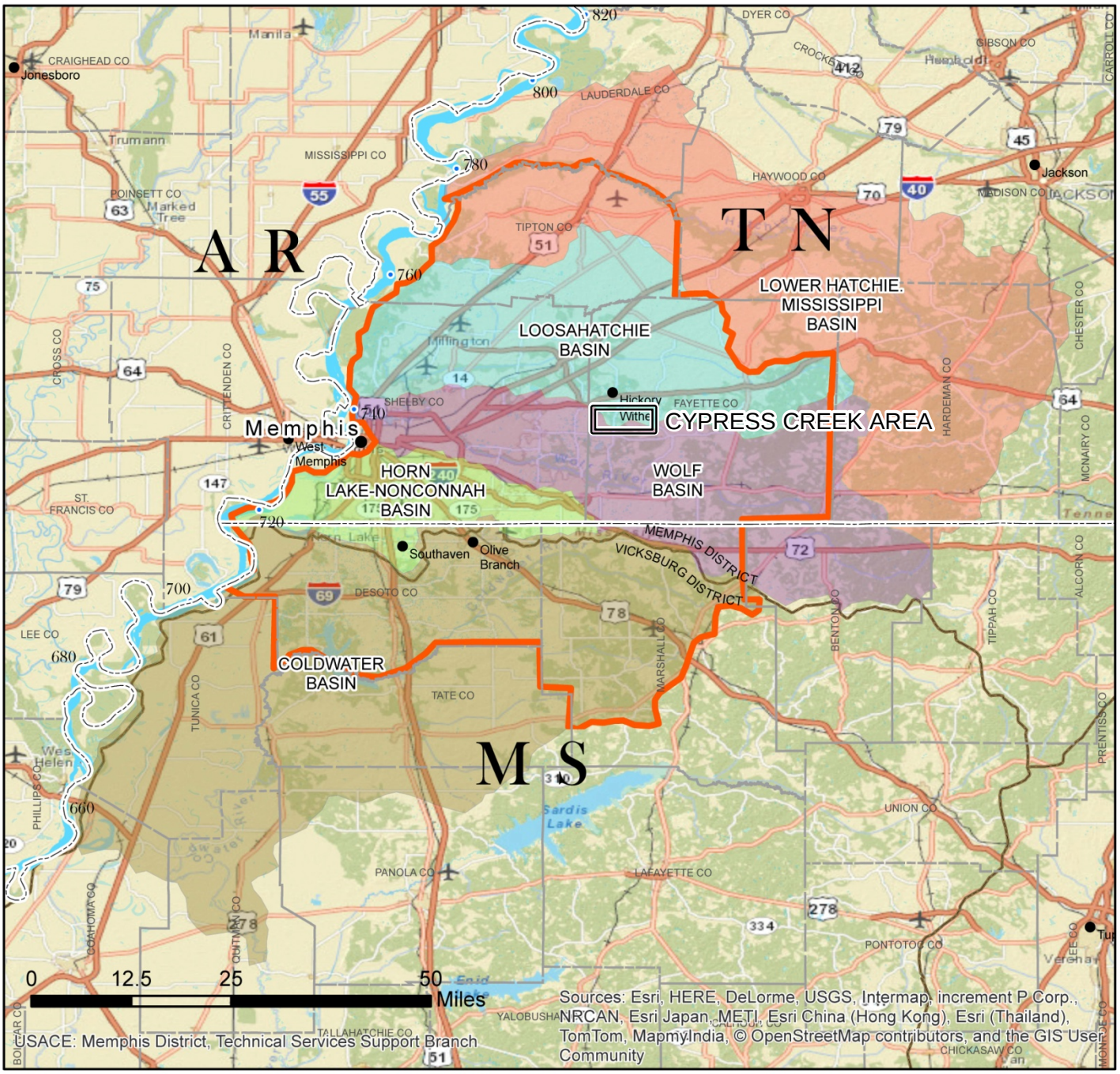



## Vicinity Map

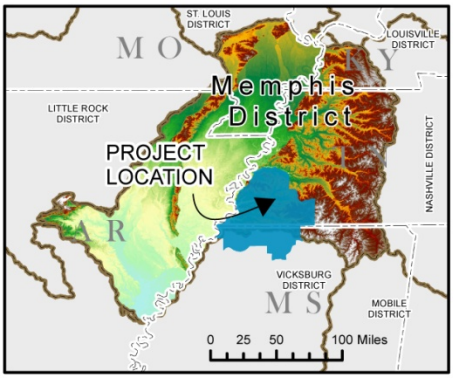

## Legend

- Project Area
- District Boundary
- County Boundary
- State Boundary

**Basins**

- Coldwater
- Horn Lake-Nonconnah
- Loosahatchie
- Lower Hatchie
- Wolf

## Location in District

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US Army Corps of Engineers®
Memphis District

# Memphis Metro: Cypress Creek, TN

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**Point of Contact**
**Daniel Ward,** Project Manager,
Ph. (901) 544-0709
daniel.d.ward@usace.army.mil

**Authority:** U.S. House Committee on Transportation and Infrastructure Resolution dated 7 March 1996.

**Appropriation:** Energy and Water Development, Mississippi River and Tributaries, Investigations

**Local Interest/Project Sponsor:** The West Tennessee River Basin Authority.

**Location:** The study area includes the Cypress Creek drainage basin, a tributary to the Loosahatchie River, in the vicinity of Oakland, Fayette County, Tennessee.

**Description:** The purpose of the Cypress Creek study is to evaluate the need for improvements for ecosystem restoration, flood control, water quality, recreation, and related purposes associated with storm water runoff and management.

**Importance:** Past channelization and development in the area has resulted in habitat degradation. The streambed is unstable, wetlands are being dewatered and water quality and aquatic habitat is compromised. Problems observed in the channel are expected to deteriorate with increased development.

**Status:** Reconnaissance funds were used to prepare a Report Synopsis, Decision Management Plan, Risk Register, and Project Management Plan for the Cypress Creek study. These documents were used to support the Feasibility Cost Sharing Agreement (FCSA) which was executed with the project sponsor on 14 August 2014.

Feasibility funds are being used to initiate the feasibility study. Activities include public scoping, biological surveys, infrastructure assessments, and water quality surveys. Prior year funds will be used to continue the feasibility study. Activities include the preparation of a draft report and public review.

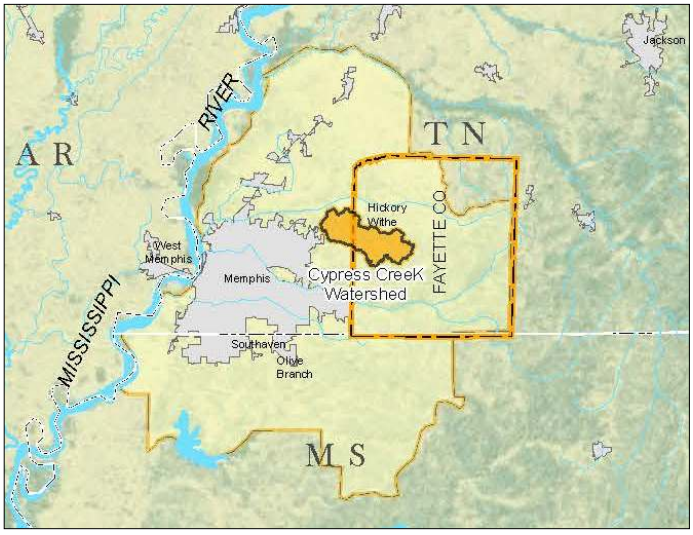
**Issues and Other Information:** The study is being conducted under the Memphis Metropolitan Area Storm Water Management authorization. No sponsor had the ability to cost share a comprehensive feasibility study over the entire geographic study area; therefore, individual studies/projects are being pursued from the overall authorization.

**Study Financial Data:**

| | |
|---|---|
| Estimated Federal Cost | $ 216,000 |
| Estimated Non-Federal Cost | $ 223,000 |
| Estimated Total Cost | $ 439,000 |

**Federal Funding Information:**

| | |
|---|---|
| Allocations thru FY 2013 | $ 0 |
| Allocation for FY 2014 | 216,000 |
| President's Budget, FY 2015 | 0 |
| House Report, FY 2015 | 0 |



Memphis Metro study area and Cypress Creek Watershed.

US Army Corps of Engineers® Memphis District

# MEMPHIS METROPOLITAN CYPRESS CREEK, TN

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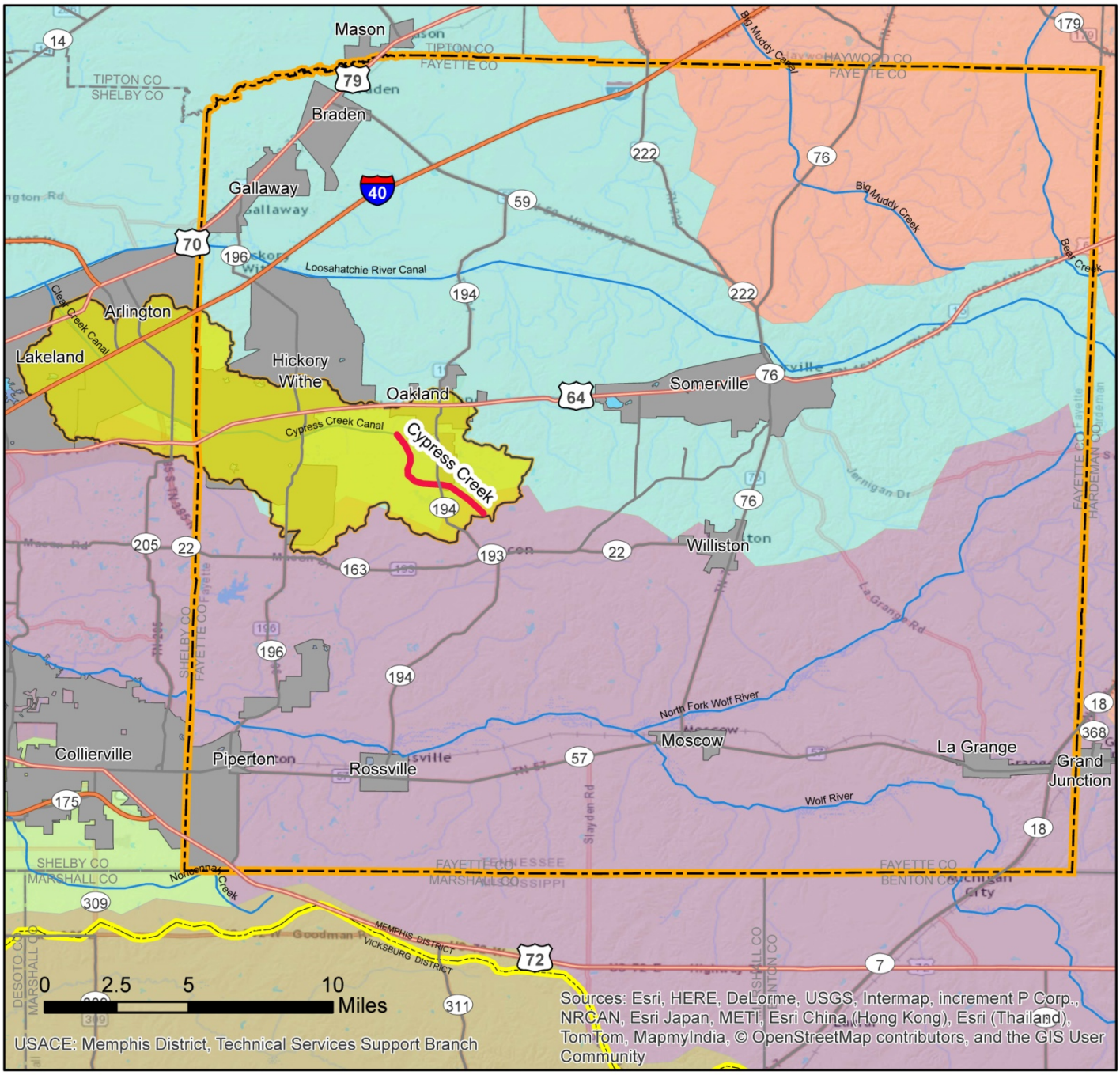
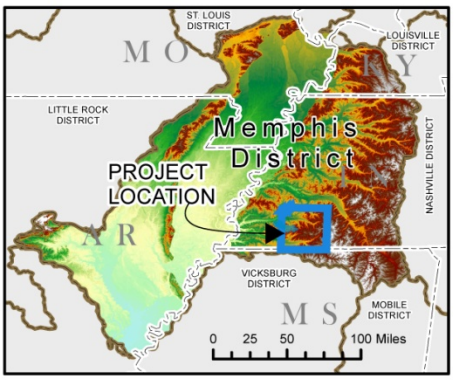



## Vicinity Map


## Legend

- Cypress Creek
- Cypress Creek Watershed
- Fayette County
- streams
- Coldwater
- Horn Lake-Nonconnah
- Loosahatchie
- Lower Hatchie
- Wolf
- Memphis District Boundary

## Location in District

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Memphis District

# Memphis Metro: North Shelby County, TN

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**Point of Contact**
**Daniel Ward,** Project Manager,
Ph. (901) 544-0709
daniel.d.ward@usace.army.mil

**Authority:** U.S. House Committee on Transportation and Infrastructure Resolution dated 7 March 1996.

**Appropriation:** Energy and Water Development, Mississippi River and Tributaries, Investigations

**Local Interest/Project Sponsor:** Shelby County, Tennessee has indicated the potential for a study within the project area.

**Location:** The study area includes the northern portion of Shelby County, Tennessee including the cities of Memphis, Millington, and Arlington along the Loosahatchie and Big Creek drainage basins.

**Description**: The purpose of the North Shelby County study is to evaluate the need for improvements for flood control, ecosystem restoration, water quality, recreation, and related purposes associated with storm water runoff and management.

**Importance:** Shelby County, Tennessee has experienced substantial growth in population over the last decade resulting in increased flooding, environmental degradation, and other water resources issues. Catastrophic floods occurred during May 2010 which resulted in Presidential Disaster Area declaration. Numerous roads were closed, over 500 citizens evacuated (including 146 patients at a health care facility), and all homes located along the southern portion of Millington Naval Support Activity Mid-South were inundated resulting in 2,000 evacuations. Damage was estimated at over $31,000,000. Aquatic habitat is degraded due to unstable channels, lack of suitable riparian cover, altered flow regime, and loss of adjacent wetlands within the floodplain

**Status:** None

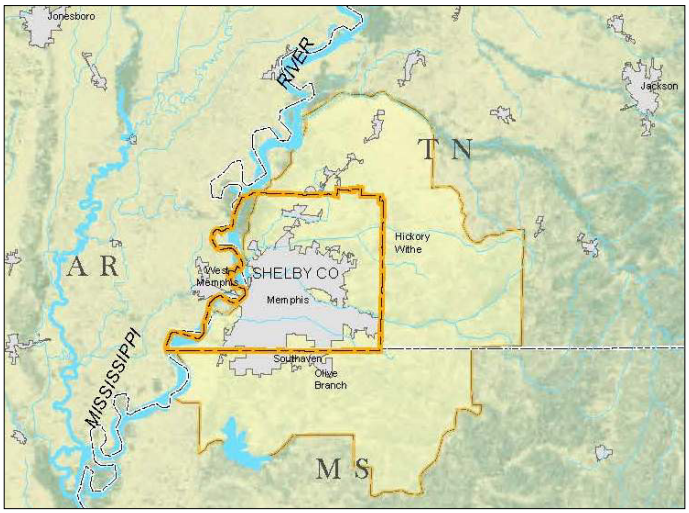
**Issues and Other Information:** The study is being conducted under the Memphis Metropolitan Area Storm Water Management authorization. No sponsor had the ability to cost share a comprehensive feasibility study over the entire geographic study area; therefore, individual studies/projects are being pursued from the overall authorization.

**Study Financial Data:**

| | |
|---|---|
| Estimated Federal Cost | $ 750,000 |
| Estimated Non-Federal Cost | $ 750,000 |
| Estimated Total Cost | $ 1,500.000 |

**Federal Funding Information:**

| | |
|---|---|
| Allocations thru FY 2013 | 0 |
| Allocation for FY 2014 | 0 |
| President's Budget, FY 2015 | 0 |
| House Report, FY 2015 | 0 |



Memphis Metro study area and Shelby County

US Army Corps of Engineers®
Memphis District

# MEMPHIS METROPOLITAN
# NORTH SHELBY COUNTY, TN

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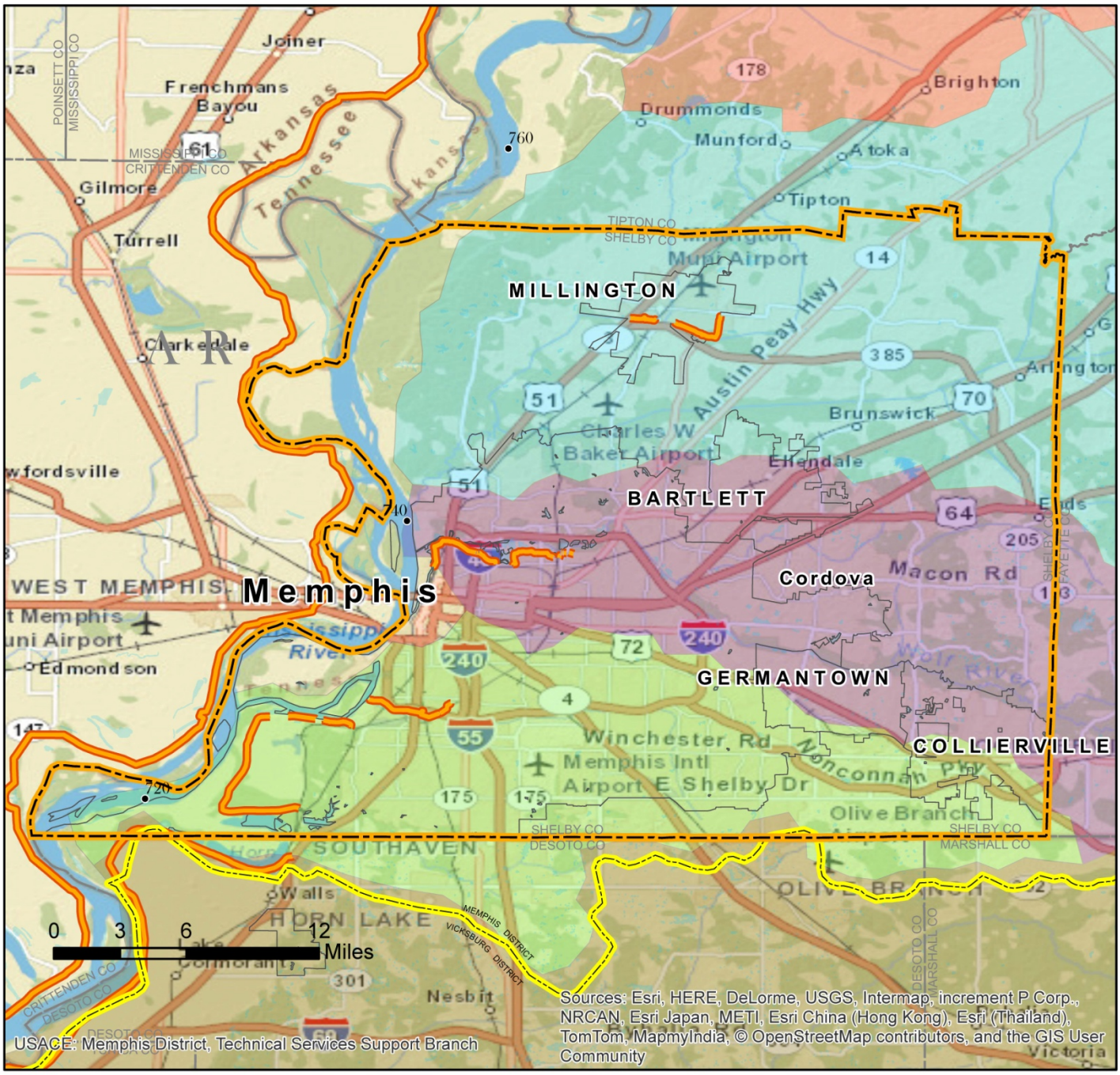
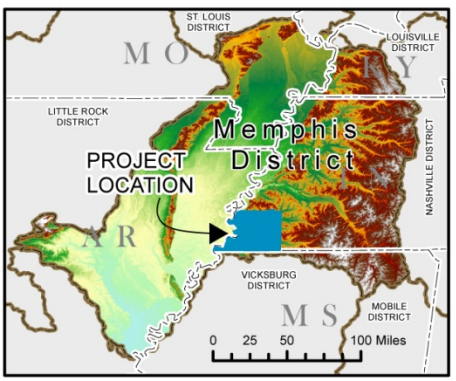



## Vicinity Map


## Legend

- Shelby County
- Coldwater
- Horn Lake-Nonconnah
- Loosahatchie
- Lower Hatchie
- Wolf
- Levee
- City
- Memphis District Boundary

## Location in District

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US Army Corps of Engineers® Memphis District

# Northwest Tennessee Regional Harbor, TN

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**Point of Contact**
**Vickie Watson,** Project Manager,
Ph. (901) 544-3986
Vickie.L.Watson@usace.army.mil

**Authority:** River and Harbor Act of 1960, Sec. 107, as amended (Continuing Authorities Projects Not Requiring Specific Legislation)

**Appropriation:** Energy and Water Development, Operation & Maintenance

**Local Interest/Project Sponsor:** Northwest Tennessee Regional Port Authority was the cost-sharing sponsor for construction of the project.

**Location:** This project is located at Mississippi River Mile 900.0 on the left descending bank in Lake County near Tiptonville, Tennessee.

**Description**: This project provides for a navigation channel 9 foot deep by 130 foot wide by 9,000 foot long ending at a 300 foot turning basin.

**Importance:** This is a slack-water harbor that will be used primarily for the export of agricultural goods. Impacts of not dredging this harbor could delay the development of industry within the harbor, as well as requiring barges to be light-loaded to complete harbor closure. In addition, restoration of the harbor limits will be more costly in the future, as the sedimentation will continue to accumulate.

**Status:** Funds appropriated in Fiscal Year 2014 are being used to collect survey data. This data will be provided to the port authority for their use. The President's Budget for Fiscal Year 2015 includes $10,000 for collect survey data.

**Issues and Other Information:** This harbor was last dredged in August 2012 using Disaster Relief Act funding. Construction was initiated in October 2006. The construction of two dredge containment areas and construction dredging was completed on 27 January 2009. Authorization for Federal maintenance is limited to $5,000,000. Initial maintenance dredging was accomplished in April 2010. Harbor construction was completed in February 2011, and turned over to the sponsor on 17 November 2011. Based on maintenance funding requirements, remaining maintenance authority will be depleted in three to five years. Until tonnage is recorded, this harbor will be categorized as a low use harbor.

**Project Financial Data:**

| | |
|---|---|
| Estimated Federal Cost[1] | $5,000,000 |
| Estimated Non-Federal Cost | $ 0 |
| Total Estimated Cost | $5,000,000 |

**Federal Funding Information:**

| | |
|---|---|
| Allocation thru FY 2013 | $1,733,200 |
| Allocation for FY 2014 | 9,900 |
| Balance to complete After FY 2014 | $3,256,900 |
| President's Budget Request for FY 2015 | 10,000 |
| House Report, FY 2015 | 10,000 |

*[1]The authorization limits Federal funding for maintenance dredging to $5,000,000.*

**Disaster Relief Act Funding[2]:**

| | |
|---|---|
| Allocation thru FY 2013 | $ 1,179,000 |
| Allocation for FY 2014 | 0 |

*[2]Disaster Relief funds will not count towards the $5,000,000 Federal limit.*

Northwest Tennessee Regional Harbor

US Army Corps of Engineers® Memphis District

# NORTHWEST TENNESSEE REGIONAL HARBOR, TN
## MAINTENANCE DREDGING

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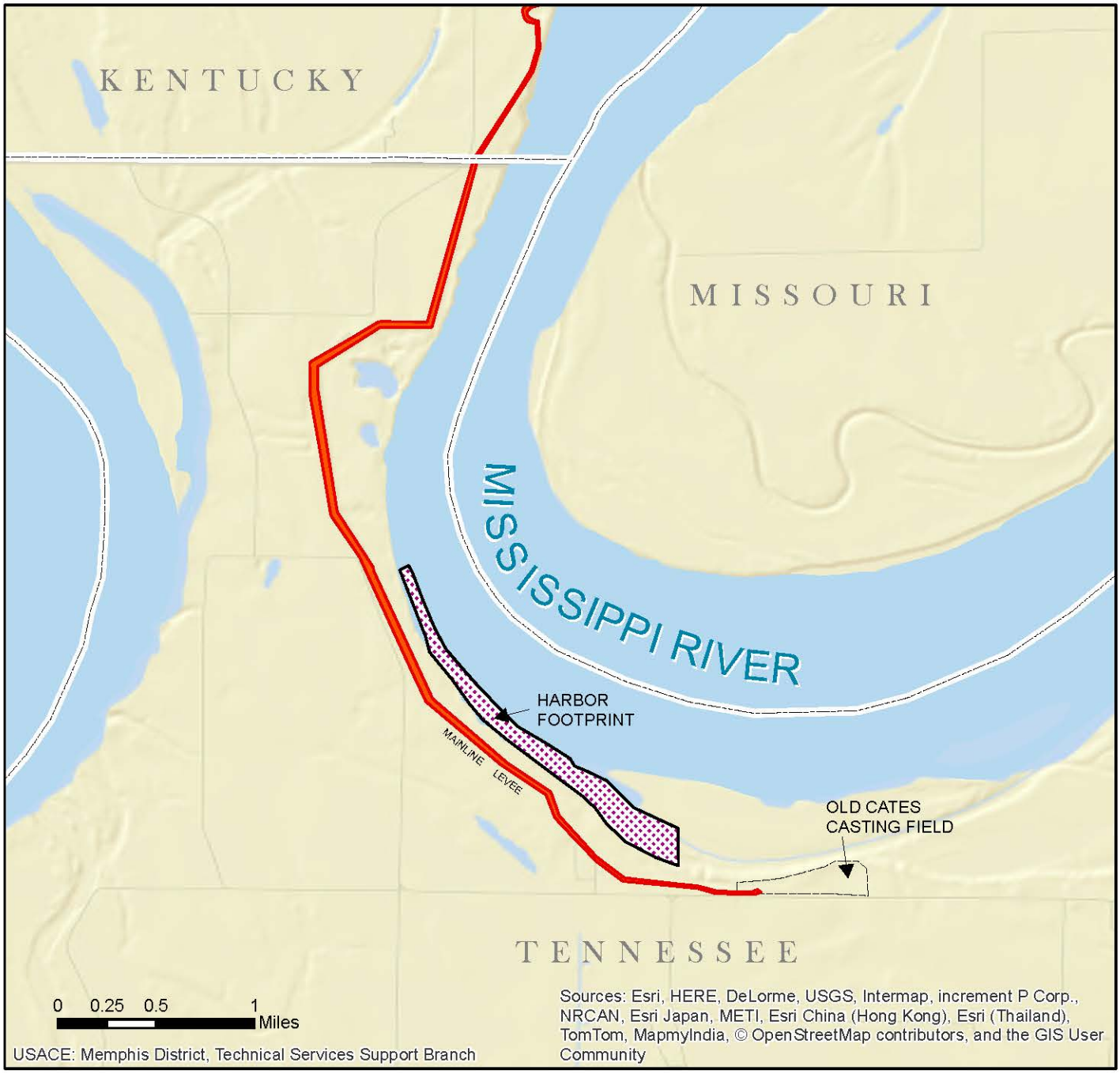
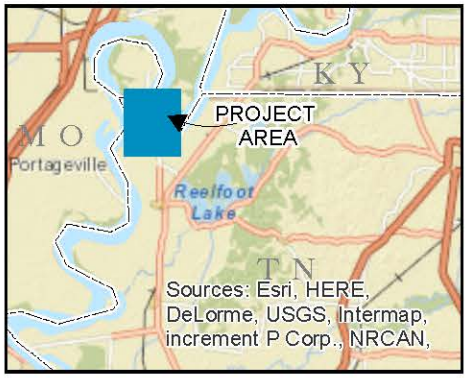
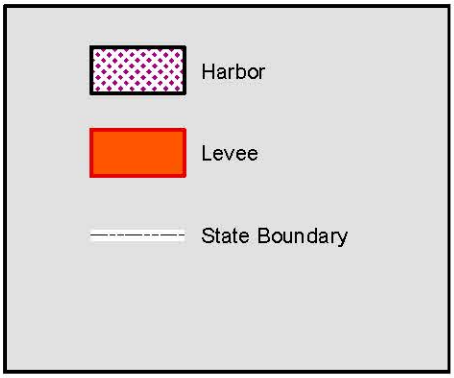


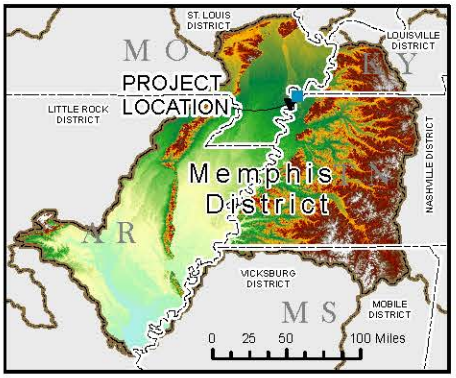

### Vicinity Map




### Legend




### Location in District

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US Army Corps of Engineers®
Memphis District

# West Tennessee Tributaries, TN

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**Point of Contact**
**Daniel Ward,** Project Manager,
Ph. (901) 544-0709
daniel.d.ward@usace.army.mil

**Authority:** The Flood Control Act of 1948, the Rivers and Harbors Act of 1966, and the Water Resources Development Act (WRDA) 1974; WRDA 1976.

**Appropriation:** Energy and Water Development, Mississippi River and Tributaries, Construction

**Local Interest/Project Sponsor:** State of Tennessee acting through the West Tennessee River Basin Authority (WTRBA).

**Location:** The project is a flood control project located along the Obion and Forked Deer Rivers and tributaries in west Tennessee counties of Weakley, Madison, Gibson, Obion, Dyer, Crockett, Lauderdale and Haywood.

**Description**: The authorized project consists of 225 miles of channel improvements on the Obion and Forked Deer Rivers, 7.6 miles of levees, 174 water control structures, 216 erosion control structures, 37 miles of lateral drains, and the acquisition of 32,000 acres of mitigation lands.

**Importance:** The original project authorization is based on the floods of record that occurred in 1935 and 1937. Approximately 455,000 acres of cleared and wooded area were inundated. The local and regional economy in the project area is agriculturally based. The original project would eliminate overflow inundation during the crop season on about 239,221 acres (162,644 cleared and 76,577 wooded). The principle population centers of the drainage basin include Jackson, Dyersburg, Union City, Humboldt, Trenton, and Milan, all in Tennessee, and Fulton, Kentucky. Although the project was originally designed to provide economic benefits due to improved flood risk management and drainage, the project has met environmentally based opposition and litigation. Therefore, a General Reevaluation was requested to explore options that provide economic benefits using environmentally-sensitive methods.

**Status:** Prior year funds are being used to continue the economic and hydrologic analysis to determine whether or not to continue with the General Reevaluation or close out the project. In addition, prior year funds are being used to convey one remaining tract of mitigation lands over to the State of Tennessee.

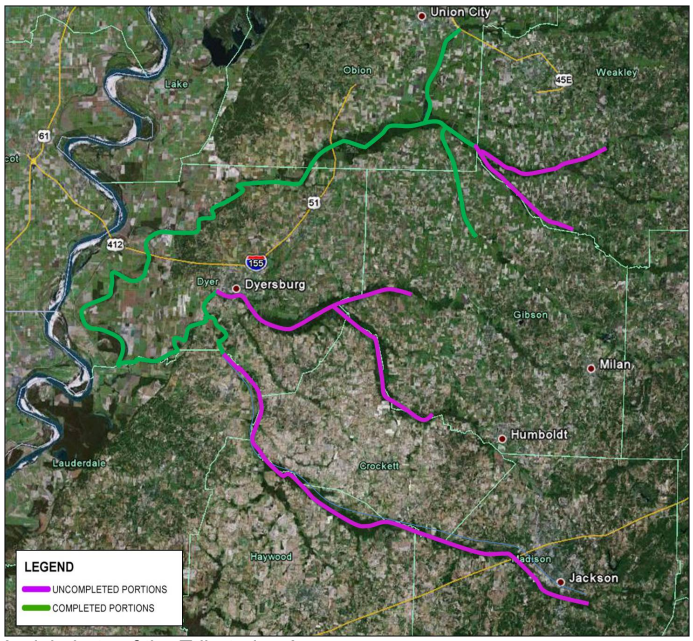
**Issues and Other Information:** Although the project was originally designed to provide economic benefits due to improved flood risk management and drainage, the project has met environmentally based opposition and litigation. Approximately 41 percent of the channel improvements were completed before project construction was stopped. A Consent Order requiring the purchase of 32,000 acres of mitigation land was reached in 1985 and construction resumed. However, the project was shut down due to the denial of water quality certification from the Tennessee Department of Environment and Conservation in 1990. Approximately 18,000 acres of mitigation land remains to be purchased.

**Project Financial Data[1]:**

| | |
|---|---|
| Estimated Federal Cost | $ 197,092,000 |
| Estimated Non-Federal Cost | 6,546,000 |
| Estimated Total Cost | $ 203,638,000 |

| | |
|---|---|
| Federal Funding Information: | |
| Allocations thru FY 2013 | $ 55,978,000 |
| Allocation for FY 2014 | 0 |
| President's Budget, FY 2015 | 0 |
| House Report, FY 2015 | 0 |

[1] *October 2009 Price Level*



Aerial photo of the Tributaries Area

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Memphis District

# WEST TENNESSEE TRIBUTARIES

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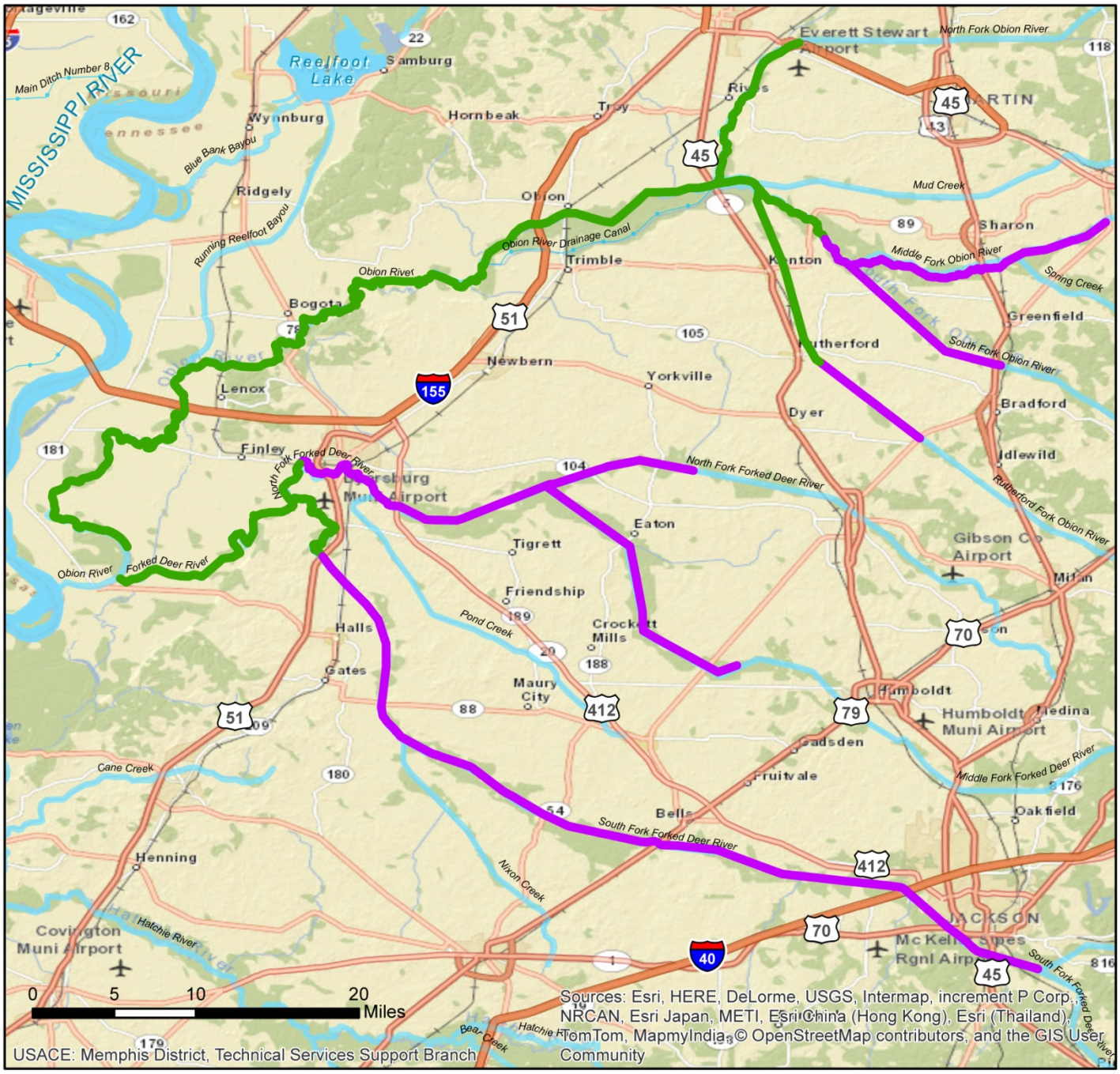
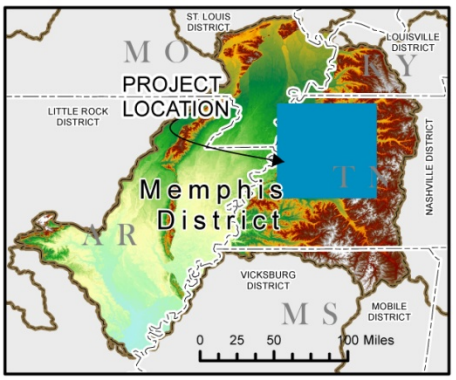



## Vicinity Map


## Legend

- Uncompleted Portions
- Completed Portions
- Highway
- Major Roads

## Location in District

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US Army Corps of Engineers®
Memphis District

# Wolf River Harbor, TN

BUILDING STRONG®

**Point of Contact**
**Vickie Watson,** Project Manager,
Ph. (901) 544-3986
Vickie.L.Watson@usace.army.mil

**Authority:** The National Industrial Recovery Act (NIRA) of 16 June 1933; modified by the Flood Control Act of 03 July 1958, J. D. 76/85/1.

**Appropriation:** Energy and Water Development, Operation & Maintenance

**Local Interest/Project Sponsor:** City of Memphis, Tennessee

**Location:** This harbor is located on the Mississippi River (Mile 737.0), near Memphis in Shelby County, Tennessee.

**Description**: The project provides for a navigation channel 9 feet deep by 250 feet wide at low water from the mouth to Keel Avenue (Mile 1.75) and 200 feet wide from Keel Avenue to Mile 3.0.

**Importance:** This is a slack-water harbor and is used primarily for the export of agricultural products. A U.S. Coast Guard facility uses this harbor. Impacts of not dredging this harbor could vary, from cutting off access to the Coast Guard facility north of Auction Street, to requiring barges to be light-loaded, to complete harbor closure. In addition, restoration of the harbor limits will be more costly in the future, as the sedimentation will continue to accumulate.

**Status:** Funds are being used to perform surveys and limited dredging of the harbor. The harbor dredging contract was awarded in June 2014 and limited dredging activities were completed in late September 2014.

**Issues and Other Information:** This harbor was last dredged in October 2013. Maintenance requirements vary from year to year depending on current harbor conditions and current prices for dredging services, respectively. Maintenance of low-use harbors is not an Administration budget priority.

**Project Financial Data:**

| | | |
|---|---|---|
| Allocation for FY 2013: | $ | 98,000 |
| Allocation for FY 2014: | | 263,000 |
| President's Budget Request, FY 2015: | | 239,000 |
| House Report, FY 2015 | | 239,000 |

**Disaster Relief Act Funds:**

| | | |
|---|---|---|
| Allocation thru FY 2013: | $ | 300,000 |
| Allocation for FY 2014: | | 0 |

Wolf River Harbor

# WOLF RIVER HARBOR, TENNESSEE
## MAINTENANCE DREDGING

US Army Corps of Engineers® Memphis District

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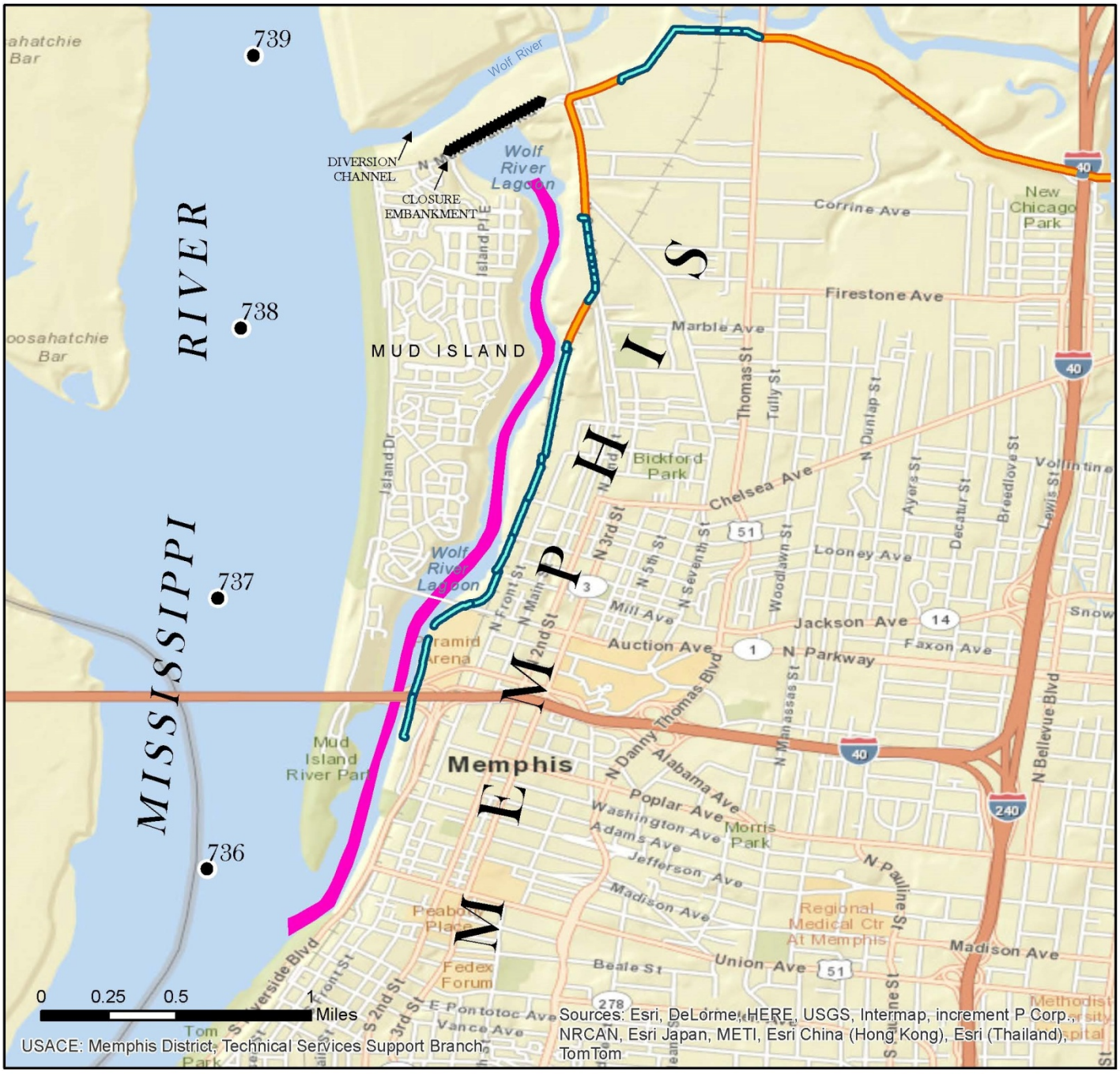
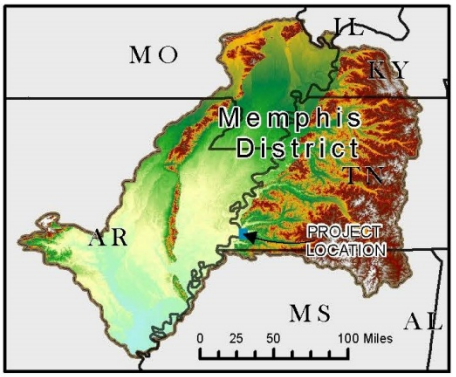



### Vicinity Map


### Legend

- Harbor Area
- Floodwall
- Levee
- Closure Embankment
- River Miles

### Location in District

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