

*Draft Environmental Assessment*

# **Shaw Wireless Communications Tower**

*Shaw, Bolivar County, Mississippi*

Mississippi Interoperable Communications Grant Program

FEMA 2008-MS-MX-0001, MSWIN 30213

August 2011



**FEMA**

**U.S. Department of Homeland Security**  
Washington, DC 20472

Document Prepared for DHS-FEMA

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## **1.0 INTRODUCTION**

The State of Mississippi created the Mississippi Wireless Communication Commission (MWCC) by statute in 2005 to oversee the construction and operation of the Mississippi Wireless Integrated Network (MSWIN) project. MSWIN is wireless voice and data capable infrastructure, providing all users with a public-safety grade, statewide, interoperable, seamless roaming radio system. This 700 MHz Public Safety System is intended to provide highly reliable, fast access, private (within groups and individuals) communications to a wide variety of government and first-responder users within the State of Mississippi. MSWIN is funded largely by federal funds administered through the Department of Homeland Security and the Federal Emergency Management Agency.

This project is being funded using a FEMA grant (2008-MS-MX-0001) and the State of Mississippi's expenditures at this site would include construction of a telecommunications facility, purchase and installation of 700 MHz RF equipment and microwave telecommunication backbone network, equipment shelter, network integration, acceptance testing, communication hardware optimization and system exercising and piloting of interoperability capabilities of the network. As part of the MSWIN network, this tower would support a myriad of equipment that would provide emergency response communications for the population within approximately fifteen miles surrounding this proposed site.

## **2.0 PURPOSE AND NEED**

This Environmental Assessment has been prepared in accordance with the National Environmental Policy Act (NEPA) of 1969, the President's Council on Environmental Quality regulations implementing NEPA (40 Code of Federal Regulations (CFR) Parts 1500-1508), and FEMA's regulations implementing NEPA (44 CFR Part 10). FEMA is required to consider potential environmental impacts before funding or approving actions and projects. The purpose of this EA is to analyze the potential environmental impacts of the proposed construction of a communications tower facility. FEMA will use the findings in this EA to determine whether to prepare an Environmental Impact Statement (EIS) or a Finding of No Significant Impact (FONSI).

The purpose of the MSWIN is to establish a better communications network for State system users, varying from public safety to governmental executive and administrative personnel to road maintenance crews. The MSWIN network would also be used extensively during life threatening conditions and emergency situations. Flooding, hurricanes, earthquakes, tornadoes, and other natural or man-made catastrophes often require effective wide-area, interoperable communications. Following Hurricane Katrina, there was a significant lack of communication or communication delays between government agencies due to inadequate coverage or inadequate capacity-handling capabilities. A high degree of redundancy and fail-safe design is essential to the success of this project since communications within the State of Mississippi are most critical when they are most susceptible to failure.

### **3.0 ALTERNATIVES CONSIDERED**

The State of Mississippi considered six alternatives to meet the purpose and need stated in Section 2.0. These alternatives included the Proposed Action, No-Action Alternative, and four alternatives that were considered but dismissed for reasons discussed in greater detail below. Two alternatives, the No Action and Proposed Action, are evaluated in this EA.

#### **3.1 NO-ACTION ALTERNATIVE**

Under the No-Action Alternative the proposed project would not be constructed. The No-Action alternative is being included to provide a baseline for comparison purposes.

#### **3.2 PROPOSED ACTION**

The Proposed Action would consist of construction of a 450-foot self-supporting communications tower and associated equipment compound to facilitate installation and operation of wireless communications antennae to provide integrated emergency communications between federal, state, and local agencies. These antennae would include microwave dishes that are to be used to send and receive information over long distances without the limitations associated with connection to land lines/cables (primarily interruptions in service due to damage to land lines/cables during emergencies or natural disasters).

#### **3.3 ALTERNATIVES CONSIDERED AND DISMISSED**

The State of Mississippi considered four additional alternatives to meet the purpose and need. These alternatives were collocation, satellite communications, commercial cellular communications, and use of the existing State operated networks; all were dismissed from further consideration for the reasons described below.

Collocation opportunities were considered as an alternative to the proposed action. However, the technical loading requirements for this project are for all used structures to be engineered and constructed to the latest tower standards of ANSI/TIA-222-G (class III supporting public safety and mission critical communications). As this is the latest engineering standard and the Class III (public safety) level is the most rigorous engineering standard in the tower industry, there are no existing towers within the coverage area for this project that can be modified to meet this standard and handle the loading requirements MSWIN would place on the tower.

Satellite communications are commercially available and are currently used as a backup communications method in the event the primary systems fail. Satellite communications are cost prohibitive for the 30,000 users who would be a part of the MSWIN radio network.

Commercial cellular communication services are available in much of the service area MSWIN would provide, but not all of the State of Mississippi is covered by a single cellular operator. MSWIN would provide 97% radio coverage over the state, is more secure than commercial cellular service, is more survivable in the event of natural disasters, and is dedicated to public safety missions. Cellular is an adequate limited backup to the routine and emergency requirements of public safety, but is not adequate for daily operational usage and extreme emergency situations, as compared to the MSWIN system.

The existing State operated radio systems are aging and limited in their coverage reach. The field and dispatch radios are nearing obsolescence and are difficult to find new replacement parts for.

The needs of a growing Mississippi would best be met by the new technology the MSWIN network provides.

#### **4.0 AFFECTED ENVIRONMENT AND POTENTIAL IMPACTS**

The site is depicted on the United States Geological Survey 7.5-minute Topographic Quadrangle "Shaw, Mississippi," dated 1967. The site is located in the southwest ¼ of the southwest ¼ of Section 31, Township 21 North, Range 6 West, Bolivar County, Mississippi, at latitude 33° 37' 7.391" north and longitude 90° 52' 0.239" west. The site consists of a proposed 100-foot by 100-foot lease area and access road located off of Bitter Creek Road near Shaw, Mississippi. The site consists of a level agricultural field. The access road follows an existing farm road eastward then turns south to the site center. Proposed activities consist of construction of a 450-foot self-supporting communications tower with associated equipment compound, enclosing the compound in a fence, placement of support equipment within the compound, and covering the compound and access road with gravel. Maps depicting the site location are included as Figures 1 through 3.

The proposed tower facility would be accessed via locked gate off of Bitter Creek Road. The tower would have two parking spaces at the entrance of the fenced tower compound. The compound surrounding the tower and equipment would consist of a seven-foot tall security fence with an additional foot of barbed wire surrounding the site. The tower would be built to withstand extreme weather conditions and engineered and constructed to the latest tower standards of ANSI/TIA-222-G (class III supporting public safety and mission critical communications). All radio equipment on the tower would be operated in compliance with all requirements of frequency and power output as regulated by the Federal Communications Commission. Additionally, the gates and fence would have attached no trespassing and other notice and warning signs as may be required by applicable local and federal laws.

Routine operations of the tower facility would have limited vehicular traffic excepting maintenance and routine periodic inspections. Running water or sanitary facilities would not be provided at the facility. Power facilities are available and would be routed in during construction. The tower would not interfere with local residence or the use of the surrounding properties. The increase of vehicular

traffic into the area is anticipated to be negligible. The tower and communication systems located thereon would not interfere with other communication systems in the area.

The tower is designed to allow other users on the structure to promote collocation with up to three positions suitable for cellular telephone type wireless service providers. This would potentially reduce the need for additional towers in the area. In addition, the tower is designed to accommodate additional government communications equipment as needed to provide mission critical radio infrastructure increases in the future. A copy of the portion of the 2010 aerial photograph depicting the site layout has been included as Figure 4 and site photographs have been included as Figures 5 through 9. A copy of the site survey is included as Appendix A.

A table summarizing the potential impacts of the proposed action is included at the end of Section 4.

## **4.1 PHYSICAL RESOURCES**

### **4.1.1 Geology and Soils**

Under the no action alternative there would be no impact to geologic resources or soils.

#### ***4.1.1.1 Geology***

According to the Mississippi Geological Survey, Geologic Map of Mississippi, dated 1969 and reprinted 1985, the site is underlain by the Alluvium of Quaternary Age. Alluvium consists of loam, sand, gravel, and clay. It is mapped only in the Mississippi River Alluvial Plain. Geologic resources may be minimally impacted by drilling or excavation of footings for the proposed communications tower and associated equipment. However, the proposed communications facility would have no significant or wide-spread impacts to geologic resources.

#### ***4.1.1.2 Soils***

Prime farmland, unique farmland, and land of statewide or local importance is protected under the Farmland Protection Policy Act (FPPA) of 1981 (7 U.S.C. § 4201 *et seq.*). The intent of the FPPA is to minimize the impact Federal programs have on the irreversible conversion of farmland to non-agricultural uses. Prime farmland is defined as land that has the best combination of physical and chemical characteristics for producing food, feed, forage, fiber, and oilseed crops and that is available for these uses. Prime farmland cannot be areas of water or urban or built-up land. Unique farmland is defined as land other than prime farmland that is used for the production of specific high value food and fiber crops such as citrus, tree nuts, olives, cranberries, fruit, and vegetables.

According to the USDA's Natural Resources Conservation Service (NRCS) Soil Survey of Bolivar County Mississippi, issued December 1958, site soils are classified as Sharkey clay, nearly level phase. This dark-colored, poorly drained soil has formed from fine-textured Mississippi River alluvium. In a

typical profile from zero to six inches in depth it is very dark grayish-brown firm clay. From 6 to 48 inches in depth it is very dark gray, very firm clay mottled with brown and with other shades of gray.

Based on information available at the United States Department of Agriculture Natural Resource Conservation Service (NRCS) Web Soil Survey Internet website, site soils are classified as Sharkey clay, nearly level phase which is a poorly drained soil formed from clayey alluvium. Sharkey clay, nearly level phase, is classified as prime farmland.

EEI submitted information regarding the proposed project to the USDA NRCS office in Jackson, Mississippi via letter dated May 25, 2011. The NRCS responded via letter dated June 28, 2011 stating "The proposed activity will not significantly impact the site. No FPPA determination is required." Copies of the correspondence to and from the NRCS are included as Appendix B.

Although soil at the proposed project site is classified as prime farmland, the proposed communications facility would have no significant impact on soils protected by the FPPA because the NRCS does not consider the action to be a permanent conversion of farmland to non-agricultural use.

#### **4.1.2 Air Quality**

The Clean Air Act (CAA) was established in 1970 (42 U.S.C. § 7401 *et seq.*) to reduce air pollution nationwide. The US Environmental Protection Agency (EPA) has developed primary and secondary National Ambient Air Quality Standards (NAAQS) under the provisions of the CAA. The EPA classifies the air quality within an air quality control region (AQCR) according to whether the region meets or exceeds Federal primary and secondary NAAQS. An AQCR or a portion of an AQCR may be classified as being in attainment, non-attainment, or it may be unclassified for each of the seven criteria pollutants (carbon monoxide, lead, nitrogen dioxide, coarse particulates, fine particulates, ozone, and sulfur dioxide).

Under the no action alternative there would be no short or long term impacts to air quality.

According to information available through the Mississippi Department of Environmental Quality (MDEQ) Internet website, the State of Mississippi is currently designated as attainment and meets all ambient air quality standards. Short-term impacts to air quality such as exhaust emissions from grading and equipment, and dust from grading activities may occur during site grading and construction activities. Equipment used for these activities would meet local, state, and federal requirements for air emissions, and dust would be controlled as necessary by wetting the surface of the work areas. The only long-term air emissions anticipated at the site would be from the emergency generator. The generator would only operate briefly while being tested and during power failure events affecting the electrical power supply to the site. Therefore, the proposed communications facility would have no significant impact to air quality.

## 4.2 WATER RESOURCES

### 4.2.1 Wild and Scenic Rivers

Under the no action alternative there would be no impact to wild or scenic rivers.

A review of information available through the Rivers.gov Internet website indicates that one Wild and Scenic River is located in Mississippi. This Wild and Scenic River is a section of Black Creek located in the DeSoto National Forest in southeastern Mississippi. The County in which the site is located is more than 200 miles northwest of the DeSoto National Forest. Therefore, the proposed communications facility would have no impacts to any designated Wild and Scenic River.

### 4.2.2 Water Quality

The Federal Water Pollution Control Act (FWPCA), also known as the Clean Water Act (CWA) was passed by congress in 1972 (33 U.S.C. § 1251 *et seq.*) with an objective of restoring and maintaining the chemical, physical, and biological integrity of waters of the United States. The National Pollutant Discharge Elimination System (NPDES) was established under the CWA and regulates wastewater discharges from point sources. NPDES regulations require that construction sites resulting in greater than one acre of disturbance obtain a permit from the EPA, or the corresponding state agency where the permitting role has been assumed by the state. The Mississippi Department of Environmental Quality (MSDEQ) is the state agency that has assumed this responsibility for Mississippi.

Under the no action alternative there would be no short- or long-term impacts to water quality.

No water bodies are located on or immediately adjacent to the proposed tower site. Land-disturbing activities at this facility would be approximately 0.34 acres, which is below the one acre threshold requiring an NPDES permit. However, appropriate best management practices (BMPs) would be implemented during site development to minimize sediment migration from the site into nearby water bodies. Examples of BMPs that may be used during site development to further minimize any impacts to nearby water resources include, but are not limited to, silt fence, hay or straw bales, hay or straw mulch, gravel, erosion control blankets, and riprap. Therefore, the proposed communications facility would have no significant short- or long-term impacts to water quality in the area of the site.

### 4.2.3 Wetlands

According to Executive Order (EO) 11990, wetlands are defined as "...those areas inundated by surface or ground water with a frequency sufficient to support and under normal circumstances does or would support a prevalence of vegetative or aquatic life that requires saturated or seasonally saturated soil conditions for growth and reproduction. Wetlands generally include swamps, marshes, bogs, and similar areas such as sloughs, potholes, wet meadows, river overflows, mud flats, and natural ponds.

EO 11990 requires that each federal agency take action to minimize the destruction, loss, or degradation of wetlands, and to preserve and enhance the natural and beneficial value of wetlands.

Section 404 of the CWA established a program to regulate the discharge of dredged or fill material into waters of the United States, including wetlands. Activities in waters of the United States regulated under this program include fill for development, water resource projects (such as dams and levees), infrastructure development (such as highways and airports) and mining projects. The United States Department of the Army Corps of Engineers administers the permitting process created under Section 404 of the CWA.

Under the no action alternative there would be no impacts to wetlands.

Information on the USFWS Wetlands Geodatabase website (digital NWI map) was reviewed to determine if any wetlands were delineated on or near the site. Based on a review of information available on this website, the site is not mapped within a jurisdictional wetland. A copy of a portion of the Digital National Wetlands Inventory map depicting the site location has been included as Figure 10.

A site reconnaissance which included observations to determine if the subject site or immediately adjacent property contained any jurisdictional wetlands (as defined by the United States Army Corps of Engineers) was conducted on May 18, 2011 by Environmental Engineers, Inc. No potential jurisdictional wetland indicators were noted on the site at the time of the site reconnaissance.

Information regarding the proposed project was submitted to the United States Army Corps of Engineers (USACE) for review. The USACE responded via letter dated June 17, 2011 stating “Based upon the information provided (enclosure 1), it appears that a Department of the Army permit, pursuant to Section 10 of the Rivers and Harbors Act of 1899 and Section 404 of the Clean Water Act will not be required for the proposed work.” Copies of the correspondence submitted to and response from the USACE are included as Appendix C. The proposed communications facility would have no impacts to wetlands.

#### **4.2.4 Floodplain Information**

According to EO 11988, the term floodplain refers to the lowland and relatively flat areas adjoining inland and coastal waters including flood prone areas of offshore islands, including at a minimum, that area subject to a one percent or greater chance of flooding in any given year. This EO requires that each federal agency take action to reduce the risk of flood loss, to minimize the impact of floods on human safety, health and welfare, and to restore and preserve the natural and beneficial values served by floodplains.

Under the no action alternative there would be no impacts to floodplains.

According to the Federal Emergency Management Agency's (FEMA) Flood Insurance Rate Map (FIRM) "Panel 275 of 375, Bolivar County, Mississippi Unincorporated Areas" effective date July 17, 1989, the site is located in Zone A which is described as special flood hazard areas inundated by 100-year flood, no base flood elevations determined. The portion of the FEMA FIRM depicting the site is included as Figure 11.

The towers that comprise the MSWIN system are considered critical facilities and project design requirements include that the communications equipment at each facility be elevated at least five feet above the 500-year flood elevation (where mapped). In areas where the 500-year floodplain is not mapped, the equipment will be elevated a minimum of five feet above the 100-year base flood elevation. In the case of the proposed action, the FIRM depicting the site location includes areas of 100-year flood, but no base flood elevations have been determined. Therefore, the support equipment at this facility would be elevated at least 10 feet above the existing ground elevation. In addition, increased stormwater runoff is not considered a significant concern. The increase in stormwater runoff associated with the proposed action would not significantly change the potential damage to other properties associated with flooding.

### **4.3 COASTAL RESOURCES**

The Coastal Zone Management Act (CZMA) was established in 1972 (16 U.S.C. § 1451 *et seq.*) to preserve, protect, and (where possible) restore or enhance the resources of the coastal zones of the United States.

Under the no action alternative there would be no impact to coastal resources.

The Coastal Zone in Mississippi includes the three counties along the coast (Hancock, Harrison, and Jackson) and the adjacent coastal waters. The site is located more than 250 miles from the Gulf of Mexico and is not located in the Mississippi Coastal Zone. Therefore, the proposed communications facility would have no impacts to coastal resources.

### **4.4 BIOLOGICAL RESOURCES**

#### **4.4.1 Threatened and Endangered Species**

The Endangered Species Act (ESA) of 1973 (16 U.S.C. 1531 – 1544) provides for the conservation of ecosystems upon which threatened and endangered species of fish, wildlife, and plants depend. The ESA prohibits actions that may harm or jeopardize the continued existence of any threatened or endangered species, or critical habitat.

Under the no action alternative there would be no impact to threatened or endangered species.

Information regarding the proposed wireless communications tower was submitted to the USFWS by Environmental Engineers, Inc. The USFWS responded via letter dated May 31, 2011 stating "There is

one terrestrial listed plant species, pondberry (*Lindera melissifolia*), that may be found in Bolivar County. This plant grows in wet woodlands. The proposed tower site does not provide suitable habitat for pondberry.” Therefore, the proposed communications facility would have no impact on threatened or endangered species. Copies of the correspondence to and the response from the USFWS are included as Appendix D.

#### **4.4.2 Migratory Birds**

The Migratory Bird Treaty Act (16 U.S.C. 703) established a Federal prohibition, unless permitted by regulations, to "pursue, hunt, take, capture, kill, attempt to take, capture or kill, possess, offer for sale, sell, offer to purchase, purchase, deliver for shipment, ship, cause to be shipped, deliver for transportation, transport, cause to be transported, carry, or cause to be carried by any means whatever, receive for shipment, transportation or carriage, or export, at any time, or in any manner, any migratory bird, or any part, nest, or egg of any such bird."

Under the no action alternative there would be no impact to migratory birds.

The United States Fish and Wildlife Service (USFWS) developed voluntary recommendations regarding communications tower siting, construction, operation, and decommissioning. These recommendations include collocating of antennae on existing towers or other structures, limiting the height of new towers to less than 199 feet above ground level (AGL), if taller than 199 feet use of the minimum amount of pilot warning and obstruction avoidance lighting required (preferably white strobes), use of non-guyed towers (monopoles, self-supporting towers), consideration of cumulative impacts on migratory birds, locating towers within “antenna farms” where possible, use of the minimum lighting permissible, use daytime visual markers on guy wires, minimization of the footprint of the facility to avoid habitat loss, design of new towers to accommodate additional comparable antennae for at least two additional users, and down-shielding security lighting for on-ground facilities. A copy of the USFWS communications tower siting, construction, operation, and decommissioning recommendations are included in Appendix E.

A basic principal of radio communication coverage is increasing the height extends signal range. Effective coverage is a function of height so to lower each site to less than 199 feet increases the potential tower count over 300 to accomplish the coverage requirements, resulting in roughly 3,000,000 square feet of ground disturbance, or well over twice the current footprint disturbance requirements. Such an increase in ground impact risks a much greater adversity to terrestrial based habitat such as animals and plants, plus the additional carbon footprint produced by the increased development and construction activities.

The build plan for the MSWIN project generally involves construction of one to three towers per county with a total of approximately 140 towers covering the 46,907 square miles (121,489 square kilometers) of land area in the state. This averages out to one tower for every 335 square miles (867 square kilometers) of land area in the state. No county will contain more than five MSWIN towers and many counties will contain only one tower. It is important to note that fewer towers are to be

constructed in the delta along the Mississippi River due to the flat terrain and corresponding longer transmit and receive distances achieved. This would reduce potential impacts to migratory birds utilizing the Mississippi Flyway migratory route along the Mississippi River.

The Federal Aviation Administration (FAA) has jurisdiction over all tower lighting and conducts aeronautical studies under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning the impact on arrival, departure, and en route procedures for aircraft operating under VFR/IFR conditions at existing and planned public use airports, as well as aeronautical facilities.

For purposes of MSWIN tower development, obstruction lighting may be one of three types:

- (1) Medium intensity flashing white obstruction lights (white strobes in both day and night (D-1 or D-2); or
- (2) Dual lighting with red / medium intensity flashing white lights (white strobes in daylight and red strobes at night – E-1 or E-2); or
- (3) Marking and lighting with painted towers and red night beacons. This applies to towers over 500 feet in height (E-2 light system).

The proposed tower would be equipped with dual lighting with red / medium intensity flashing white lights.

As stated in Section 1.0, the proposed tower would be designed to accommodate equipment for up to three additional wireless communications providers thereby reducing the need for additional towers in the service area of the proposed project. Security lighting at this facility would consist of motion-activated wall-mounted lights on the equipment shelter at the site.

The construction of the proposed tower would not have a significant impact on migratory birds. However, this tower is part of the MSWIN program that may have the potential for cumulative impacts to migratory birds.

FEMA has identified that the statewide MSWIN program has the potential for cumulative impacts to migratory birds, as birds could be injured or killed by colliding into guy wires and/or the tower structure, or could be disoriented by the tower lighting. FEMA has worked with MWCC and Mississippi Department of Wildlife, Fisheries, and Parks (MDWFP) to develop an Avian Mitigation Plan (Appendix F) to address this potential for cumulative impacts. The mitigation includes monitoring the presence of deceased birds at MSWIN tower sites and providing a collection kit on site to collect the remains and record the location of any deceased bird. The remains of the bird along with the data will be delivered to MDWFP and included in the state's Avian Mortality database. USFWS will also be given access to this database. If an injured bird is found, all efforts will be made to help the bird recover so that it can be released back into the wild. In addition, MDWFP and USFWS

(Jackson, MS Ecological Services office) will be given access to the MSWIN tower sites for monitoring. If a particular tower is found to have adverse effects to migratory birds (greater than 10 kills per night) the towers will be reported to MDWFP, USFWS, and FEMA. MWCC will also provide an annual report documenting the number of avian deaths and provide that report to MDWFP, FEMA, and USFWS for five years after all towers have been constructed. This mitigation plan will contribute scientific data that can be used by MDWFP and USFWS in determining the significance of potential impacts of towers on migratory birds. The implementation of the Avian Mitigation Plan will lower the potential for the MSWIN program to have adverse cumulative impacts on migratory birds.

#### **4.4.3 Wildlife and Fish**

The Wilderness Act (16 U.S. C. 1131-1136) established the National Wilderness Preservation System to be composed of federally owned areas designated by Congress as "wilderness areas."

Under the no action alternative there would be no impact to wilderness areas.

The proposed communications facility would not adversely affect wilderness areas. Based on a review of information available through the Wilderness.net Internet website, two wilderness areas are located in Mississippi – Black Creek Wilderness and Leaf Wilderness. The site is not located within the boundaries of, or adjacent to either wilderness area. Therefore, the proposed communications facility would have no impact on wilderness areas.

On October 9, 1997, President Clinton signed the National Wildlife Refuge System Improvement Act of 1997 (P.L. 105-57) into law. This new law amended and built upon the National Wildlife Refuge System Administration Act of 1966 to ensure that the National Wildlife Refuge System is managed as a national system of related lands, waters, and interests for the protection and conservation of the Nation's wildlife resources.

The 1966 Act provides guidelines and directives for administration and management of all areas in the system, including "wildlife refuges, areas for the protection and conservation of fish and wildlife that are threatened with extinction, wildlife ranges, game ranges, wildlife management areas, or waterfowl production areas."

Under the no action alternative there would be no impact to wildlife refuges.

Based on a review of information available at the USFWS Internet website and at the Nationalatlas.gov Internet website, the site is not located within the boundaries of, or adjacent to, any wildlife refuges. Therefore, the proposed communications facility is expected to have no impacts to wildlife refuges.

#### **4.4.4 General Vegetation**

Impacts to general vegetation are anticipated to be limited to the areas that are to be excavated and/or graded in preparation of the site for construction of the proposed communications tower and access

road. The site consists of an agricultural field. The total area of vegetation to be impacted at this site is approximately 0.34 acres. Therefore, the proposed communications facility would have no significant impact on general vegetation.

## **4.5 CULTURAL RESOURCES**

Under Section 106 of the National Historic Preservation Act (NHPA), Federal agencies are required to consider the impacts of their actions on historic properties. Historic properties are those that are listed on or eligible for listing on the National Register of Historic Places, and are defined as districts, sites, buildings, structures, and objects significant in American history, architecture, archeology, engineering, and culture. The goal of the NHPA is to have federal agencies act as responsible stewards of the nation's resources when their actions affect historic properties. The historic preservation review process mandated by Section 106 is outlined in regulations issued by the Advisory Council on Historic Preservation (ACHP) (36 CFR Part 800). The ACHP is an independent federal agency that promotes the preservation, enhancement, and productive use of the nation's historic resources, and advises the President and Congress on national historic preservation policy. The ACHP is the only agency with the legal responsibility to encourage federal agencies to integrate historic preservation compliance considerations into their project requirements.

### **4.5.1 ACHP Program Comment**

FEMA is required under Section 106 of NHPA to consider the impacts of its grant-funded projects on historic properties. Similarly, the Federal Communications Commission (FCC) is required under NHPA to consider the impacts to historic properties of communications facilities that receive an FCC license to operate. The FCC has executed two nationwide Programmatic Agreements (PA) under NHPA that streamline the Section 106 review process for new tower construction and collocation projects. On October 23, 2009, the ACHP issued a Program Comment for "Streamlining the Section 106 Review for Wireless Communication Facilities Construction and Modification Subject to Review Under the FCC Nationwide Programmatic Agreement and/or the Nationwide Programmatic Agreement for the Collocation of Wireless Antennas." Under the ACHP's Program Comment, FEMA is not required to conduct its own Section 106 review with regard to the effects of communication facilities construction or modification projects that have undergone Section 106 review by the FCC or that are exempt from Section 106 review by the FCC under the FCC Nationwide PA or the FCC Collocation PA. Therefore, the Section 106 review conducted for the proposed project to meet FCC requirements is described in this EA, but no separate 106 review was required for FEMA.

### **4.5.2 FCC Nationwide Programmatic Agreement**

On March 7, 2005 the FCC implemented a Nationwide Programmatic Agreement (NPA) regarding Section 106 reviews (State Historic Preservation Officer and Indian tribal consultation) for wireless telecommunications tower sites. In summary, the NPA set forth rules regarding consultation with the State Historic Preservation Officer (SHPO) in each state where a proposed wireless telecommunications tower is to be constructed; consultation with Indian tribes and Native Hawaiian

Organizations (NHOs) that would have been historically located in the area of the proposed wireless telecommunications tower or had indicated an interest in the geographical area containing the proposed wireless telecommunications tower; and involvement of the public and/or local government. As part of the process associated with the NPA the FCC developed the Tower Construction Notification System (TCNS) and FCC Form 620. The TCNS is described in Section 4.5.3 and FCC Form 620 is described in Section 4.5.4.

The NPA requires that a response be received from each Indian tribe or NHO that has indicated an interest in the state or geographical area containing the proposed tower. If no response is received from a particular Indian tribe or NHO within a reasonable time (typically 30 days), the NPA requires that the non-responding Indian tribe or NHO be contacted a second time in an effort to obtain a response. If the Indian tribe or NHO continues to be unresponsive to the initial or follow-up inquiries, the FCC must be contacted to consult with the non-responding Indian tribe or NHO.

### **4.5.3 FCC Tower Construction Notification System**

The TCNS is an Internet-based notification system developed by the FCC that allows input of basic information regarding the proposed location, type, and height of a new wireless telecommunications tower. This information is then made available to Indian tribes and NHOs that have expressed an interest in the state or geographical location containing the proposed wireless telecommunications tower via electronic or regular mail. According to the FCC the TCNS can be used as the initial contact to Indian tribes or NHOs.

Information regarding the proposed wireless telecommunications tower was submitted to Indian tribes, NHOs, and SHPOs via the TCNS on May 16, 2011. The FCC assigned Notification I.D. #76526 to the notification submitted for this proposed wireless communications tower. The FCC sent an electronic mail notification to our office on May 20, 2011 listing the Indian tribes, NHOs, and SHPOs that were contacted through the TCNS regarding the proposed tower. As noted in Section 4.5.2, the NPA requires a response be obtained from each Indian tribe or NHO that has indicated an interest in the geographical area or state containing the site.

Environmental Engineers, Inc. used the list of Indian tribes that had defined their area of geographical interest on the FCC Internet web site, conversations with Tribal Historic Preservation Officers (THPOs), Internet web sites for many of the Indian tribes and Alaskan villages, and the *Encyclopedia of North American Indians* by Frederick E. Hoxie (published in 1996 by Houghton Mifflin) to determine which Indian tribes included in the TCNS list would be interested in this wireless telecommunications tower site. This review indicated that the following Indian tribes would have a potential interest in this wireless telecommunications tower site: Choctaw Nation of Oklahoma, Kialegee Tribal Town, Mississippi Band of Choctaw Indians, Quapaw Tribe of Oklahoma, and the Tunica-Biloxi Indians of Louisiana. A description of the follow-ups to and responses from each of these Indian tribes are included in Sections 4.5.5.1 through 4.5.5.5. Copies of the TCNS notifications and list of Indian tribes and SHPOs are included in Appendix G.

#### **4.5.4 State Historic Preservation Officer**

MRS Consultants, LLC and Environmental Engineers, Inc. completed the FCC Form 620 required for submittal to the SHPO and to those Indian tribes requesting additional information regarding the proposed wireless telecommunications tower. MRS Consultants, LLC personnel satisfy the United States Secretary of the Interior's Professional Qualification Standards. A copy of the FCC Form 620 prepared for this site is included in Appendix H.

No historic resources were identified within the MDAH architectural survey files for the APE.

The FCC Form 620 was submitted to the Mississippi Department of Archives and History (MDAH) for review. Based on the review of this report, the MDAH responded via letter dated June 16, 2011 stating "After reviewing the information provided, we concur that no archaeological resources listed in or eligible for listing in the National Register of Historic Places will be directly or visually affected. We also concur that no architectural resources listed in or eligible for listing in the Nation Register of Historic Places will be directly or visually affected. As such, we have no reservations with the project." Copies of the correspondence to and from the MDAH are included in Appendix I.

#### **4.5.5 Indian Tribal Consultation**

Environmental Engineers, Inc. followed up with each of the Indian tribes identified (as necessary) through a review of the TCNS listing provided by the FCC for this site. Sections 4.5.5.1 through 4.5.5.5 describe follow-up contacts to each of these Indian tribes and their responses.

##### **4.5.5.1 Choctaw Nation of Oklahoma**

Mr. Terry D. Cole of the Choctaw Nation of Oklahoma provided comment via TCNS on July 8, 2011 regarding TCNS #76526 stating that "The Choctaw Nation of Oklahoma has reviewed this cell tower and to the best of our knowledge it will have no adverse effect on any historic properties in the project's area of potential effect. However, should construction expose buried archaeological or building materials such as chipped stones, tools, pottery, bone, historic crockery, glass or metal items, or should it uncover evidence of buried historic building materials such as rock foundations, brick, or hand poured concrete, this office should be contacted immediately..." Copies of the correspondence to and from the Choctaw Nation of Oklahoma are included in Appendix J.

##### **4.5.5.2 Kialegee Tribal Town**

The TCNS listing (Appendix G) for this site included information from the Kialegee Tribal Town that states "If the Applicant receives no response from the Kialegee Tribal Town within 30 days after notification through TCNS, the Kialegee Tribal Town has no interest in participating in pre-construction review for the site. The Applicant, however, must immediately notify the Kialegee Tribal Town in the event archaeological properties or human remains are discovered during construction." The TCNS notification for this site is dated May 16, 2011 and the end of the 30-day period indicated

by the Kialegee Tribal Town was June 15, 2011. Environmental Engineers, Inc. has not received a response from the Kialegee Tribal Town as of the date of this report. Therefore, it is our understanding that additional consultation with the Kialegee Tribal Town is not necessary.

#### **4.5.5.3 Mississippi Band of Choctaw Indians**

The TCNS listing (Appendix G) for this site included information from the Mississippi Band of Choctaw Indians that stated “If the applicant/tower builder receives no response from the Mississippi Band of Choctaw Indians within 30 days after you have e-mailed the [FCC Form 620]...then the Mississippi Band of Choctaw Indians has no interest in participating in pre-construction review for the proposed site. The Applicant/tower builder, however, must immediately notify the Mississippi Band of Choctaw Indians in the event archaeological properties or human remains are discovered during construction...” The Mississippi Band of Choctaw Indians was notified via electronic mail dated June 8, 2011 and the end of the 30-day period indicated by the Mississippi Band of Choctaw Indians was July 8, 2011. Environmental Engineers, Inc. has not received a response from the Mississippi Band of Choctaw Indians as of the date of this report. Therefore, it is our understanding that additional consultation with the Mississippi Band of Choctaw Indians is not necessary. A copy of the electronic mail submitted to the Mississippi Band of Choctaw Indians is included in Appendix J.

#### **4.5.5.4 Quapaw Tribe of Oklahoma**

Ms. Wendy Huntzinger of Conner & Winters, LLP responded on behalf of the Quapaw Tribe of Oklahoma via electronic mail dated August 12, 2011 regarding TCNS #76526 stating “ Based on the information you have provided for TCNS ID 76526 the Quapaw Tribe of Oklahoma has no immediate concerns or issues regarding this project at this time. Please keep me informed if the nature of the project should change. Since the site is located in an area of historical interest to the Tribe, it is requested that in the event that any human remains and/or funerary objects are discovered that you cease work and contact us immediately.” Copies of the correspondence to and from the Quapaw Tribe of Oklahoma are included in Appendix J.

#### **4.5.5.5 Tunica-Biloxi Indians of Louisiana**

Mr. Earl Barbry of the Tunica-Biloxi Indians of Louisiana was contacted via electronic mail on May 3, 2005 regarding submittal of wireless telecommunications projects. Mr. Barbry responded via electronic mail on May 3, 2005 and indicated that he wanted to be notified regarding cell tower requests via electronic mail and that if he had not responded within 30 days of our contacting him, the project can proceed. We contacted Mr. Barbry regarding this site via electronic mail on June 8, 2011, and the end of the 30-day response period as indicated by Mr. Barbry was July 8, 2011. We have not received a response from Mr. Barbry as of the date of this report. Therefore, we have assumed that the Tunica-Biloxi Indians of Louisiana concur with the proposed project. Copies of the electronic mail to and from Mr. Barbry are included in Appendix J.

Based on the information presented above, the proposed communications facility would have no impact on cultural resources.

#### **4.5.6 Inadvertent Discovery**

The personnel that would have a potential to be involved in land-disturbing activities must be instructed to stop work immediately in the event of an inadvertent discovery of human remains or cultural or archaeological materials and contact FEMA and SHPO. A copy of this information must be provided to all personnel that would have a potential to be involved in land-disturbing activities at the site.

### **4.6 SOCIOECONOMIC CONCERNS**

Under the no action alternative there would be no impact to socioeconomic resources.

No significant adverse impacts to socioeconomic resources, economic development, demographics, demand for public housing, or public services are anticipated. The emergency communications coverage provided by this project would benefit all populations in the coverage area.

#### **4.6.1 Human Health and Safety**

Under the no action alternative, there could be adverse impacts to human health and safety because of a lack of adequate communication between emergency response personnel during an emergency event.

The results of a Phase I Environmental Site Assessment (ESA) conducted at the site by EEI for the MSWIN 30213 communications tower site in May 2011 (EEI Project No.: JSE01P1116) did not indicate the presence of hazardous materials or petroleum products at the site at that time. The equipment (including the emergency generator and associated propane/natural gas tank) that would be installed at the site would meet local, state, and federal regulations regarding hazardous materials. The Phase I ESA is included in Appendix K. The antennae and equipment that would be installed at the site would meet local, state, and federal regulations regarding radiofrequency emissions. Lastly, this project is intended to provide better communications between emergency response personnel which would have a beneficial effect on human health and safety. Therefore, the proposed communications facility would have no significant impacts to human health and safety.

#### **4.6.2 Environmental Justice**

Section 1-101 of EO 12898 states “To the greatest extent practicable and permitted by law, and consistent with the principles set forth in the report on the National Performance Review, each Federal agency shall make achieving environmental justice part of its mission by identifying and addressing, as appropriate, disproportionately high and adverse human health or environmental effects of its programs, policies, and activities on minority populations and low-income populations in the United

States and its territories and possessions, the District of Columbia, the Commonwealth of Puerto Rico, and the Commonwealth of the Mariana Islands.”

Under the no action alternative there would be no impact to minority or low income populations.

No disproportionately high or adverse effects on minority or low-income populations are anticipated by development of the proposed communications facility. The proposed communications facility would benefit all populations in the project service area by providing better communications between emergency service personnel.

#### **4.6.3 Noise**

Noise is generally described as unwanted sound. Sound becomes unwanted when it either interferes with normal activities such as sleeping, conversation, or disrupts or diminishes one’s quality of life.

Under the no action alternative there would be no noise generation.

Short-term noise generation is anticipated to result from grading and construction activities. Long-term noise generation is anticipated to be minimal and to result primarily from equipment used to cool electronic components and from testing or operation of an emergency generator at the site. However, the generator would only operate briefly when tested, and during power failure events affecting the electrical power supply to the site. Therefore, the proposed communications facility would not generate significant noise.

#### **4.6.4 Infrastructure, Utilities, Transportation, and Waste Management**

Under the no action alternative there would be no impact to infrastructure, utilities, transportation, or waste management.

No significant impacts are anticipated to infrastructure, utilities, transportation, or waste management from the proposed communications facility. Traffic to and from the site would be minimal and would be associated with maintenance and repair of equipment at the site. Minimal waste would be generated at the site during maintenance activities. All waste generated at the site would be disposed of in compliance with federal, state, and local regulations. The project is intended to provide enhanced communications services for emergency response personnel. This could have a beneficial effect on the ability to identify and correct problems with infrastructure, utilities, transportation, and waste management.

#### **4.6.5 Aesthetics and Visual Impacts**

Under the no action alternative there would be no aesthetic or visual impacts.

The proposed project will not impact national scenic or historic trails. There is one national scenic byway located in Bolivar County, Mississippi: Great River Road Mississippi. However, the proposed communications facility is located approximately 15 miles east of the Great River Road Mississippi and would have no significant impacts to this resource.

The proposed tower would not be equipped with high intensity white lighting.

Lastly, the site is not located within the boundaries of any state or national park, national forest, or wildlife management area. No city or other community parks are depicted within 1,000 feet of the proposed project on the USGS Topographic Quadrangle “Shaw, Mississippi,” (Figure 3). Therefore, the proposed communications facility would have no significant impacts to aesthetics and visual resources.

#### **4.7 CUMULATIVE IMPACTS**

Under the no action alternative there would be no cumulative impacts.

Cumulative impacts are an incremental impact on either the natural environment or human environment by an action when added to past and anticipated future actions. No ongoing or proposed actions are known for the project area. According to information available through the FCC Antenna Structure Registration (ASR) System Internet website, there are 3,313 registered towers in the state of Mississippi (generally only those towers over 200 feet in height are included in this database). Construction of the towers comprising the MSWIN network would result in an increase of approximately 4.25% in the number of towers in the state of Mississippi. As described in Section 1.0 of this document, the proposed tower is designed to allow collocation of up to three additional cellular-type service providers, thereby potentially reducing cumulative impacts as new/changing technologies and increased demand for service, both public and private, create more pressure on existing infrastructure.

The statewide MSWIN program would not have cumulative impacts on geology, air quality, noise, water resources, cultural resources, fish and wildlife, threatened or endangered species, vegetation, or socioeconomics. However, cumulative impacts to migratory birds may result from the MSWIN program, as birds could be injured or killed by colliding into guy wires and/or the tower structure, or could be disoriented by the tower lighting. FEMA has worked with MWCC and MDWFP to develop an Avian Mitigation Plan (Appendix F) to address this potential for cumulative impacts to birds.

The mitigation includes monitoring the presence of deceased birds at MSWIN tower sites and providing a collection kit on site to collect the remains and record the location of any deceased bird. The remains of the bird along with the data will be delivered to the MDWFP and included in the state’s Avian Mortality database. USFWS will also have access to this database. If an injured bird is found, all efforts will be made to help the bird recover so that it can be released back into the wild. In addition, MDWFP and USFWS (Jackson, MS Ecological Services office) will be given access to the MSWIN tower sites for monitoring. If a particular tower is found to have adverse effects to migratory

birds (greater than 10 kills per night) the towers will be reported to MDWFP, USFWS, and FEMA. MWCC will also provide an annual report documenting the number of avian deaths and provide that report to FEMA, USFWS (Jackson, MS Ecological Services office), and MDWFP for five years after all towers have been constructed. This mitigation plan will contribute scientific data that can be used by MDWFP and USFWS in determining the significance of potential impacts of towers on migratory birds. The implementation of the Avian Mitigation Plan will lower the potential for the MSWIN program to have adverse cumulative impacts on migratory birds.

**Table 1. Summary of Impacts**

<b>Resource</b>	<b>No Impact</b>	<b>No Significant Impact</b>	<b>Significant Impact</b>	<b>Mitigation/Best Management Practices</b>
Geology		X		None
Prime/unique farmland; farmland of statewide or local importance		X		None
Air Quality		X		Fugitive dust emissions from construction activities would be controlled by wetting the ground
Wild and Scenic Rivers	X			None
Water Quality		X		Examples of BMPs that may be used during construction activities include, but are not limited to, silt fence, hay or straw bales, hay or straw mulch, gravel, erosion control blankets, and riprap
Wetlands	X			None
Floodplains		X		Support equipment will be elevated a minimum of ten feet above ground elevation
Coastal Resources	X			None
Threatened and Endangered Species	X			None
Migratory Birds		X		Tower lighting would be in accordance with USFWS recommendations; tower design would allow for future collocation; requirements of the Avian Mitigation Plan would be followed.
Wildlife and Fish	X			None
General Vegetation		X		None
Cultural Resources		X		If any human remains or cultural or archaeological materials are discovered, grantee would stop work immediately and contact FEMA and SHPO.
Socioeconomic Resources		X		None

<b>Table 1. Summary of Impacts, Continued</b>				
<b>Resource</b>	<b>No Impact</b>	<b>No Significant Impact</b>	<b>Significant Impact</b>	<b>Mitigation/Best Management Practices</b>
Human Health and Safety		X		None – project would improve interoperable communications
Environmental Justice	X			None – project would benefit all communities
Noise		X		None
Infrastructure, Utilities, Transportation, and Waste Management		X		None
Aesthetics and Visual Impacts		X		None

## **5.0 AGENCY COORDINATION, PUBLIC INVOLVEMENT AND PERMITS**

The Bolivar County Administrator was contacted regarding the proposed wireless communications tower via letter dated May 25, 2011. No response has been received from the Bolivar County Administrator as of the date of this report. A public notice was published in *The Bolivar Commercial* on May 18, 2011 requesting comment regarding potential impacts to historical or archaeological properties by the proposed wireless communications tower. No comments have been received as of the date of this report in response to the public notice. Copies of the correspondence submitted to the Bolivar County Administrator and a copy of the public notice are included in Appendix L. In addition, notice of availability of this draft Environmental Assessment will be published in *The Clarion Ledger*.

## **6.0 LIST OF PREPARERS**

- Mindy Manners, Environmental Engineers, Inc.
- Anne B. Gilbert, Environmental Engineers, Inc.
- Science Kilner, FEMA
- Amanda Pereira, FEMA

## **7.0 INFORMATION SOURCES**

Completion of this Draft Environmental Assessment included utilization of the following sources:

1. Review of the portion of the 2010 aerial photograph depicting the site location available through Maptech.
2. Review of the site survey prepared by SMW Engineering, Inc.
3. Review of information regarding National Scenic Trails and All-American Roads available on the Mississippi Department of Transportation Internet website.

*Draft Environmental Assessment  
Proposed MSWIN 30213 Shaw Wireless Communications Tower  
Shaw, Bolivar County, Mississippi*

4. State and county maps available through the Mississippi Department of Transportation Internet website.
5. Review of information regarding wild and scenic rivers in the vicinity of the proposed project available at Rivers.gov.
6. Review of the Nationwide Programmatic Agreement for Review of Effects on Historic Properties for Certain Undertakings Approved by the Federal Communications Commission.
7. Correspondence to and from the United States Army Corps of Engineers regarding potential impacts to jurisdictional wetlands by the proposed project.
8. Review of information available on the USFWS National Wetlands Inventory Internet website regarding potential jurisdictional wetlands on or adjacent to the site.
9. A review of information available on the USFWS Internet website, at Nationalatlas.gov, and on Wilderness.net regarding officially designated wilderness areas or wildlife refuges.
10. Correspondence from the USFWS regarding threatened and endangered species on or near the site.
11. Review of the FCC Form 620 prepared for the site by MRS Consultants, LLC and Environmental Engineers, Inc.
12. Correspondence from the Mississippi Department of Archives and History regarding historical resources and properties listed on or eligible for listing on the National Register of Historic Places on or near the site.
13. Review of the Tower Construction Notification System Notice of Organizations Which Were Sent Proposed Tower Construction Notification Information provided by the FCC.
14. Correspondence and conversations with representatives of the Choctaw Nation of Oklahoma, Kialegee Tribal Town, Mississippi Band of Choctaw Indians, Quapaw Tribe of Oklahoma, and the Tunica-Biloxi Indians of Louisiana regarding wireless telecommunications projects.
15. Review of the portion of the FEMA Flood Insurance Rate Map depicting the site location regarding flood zone designations for the site.
16. Information regarding the MSWIN system provided by Towers of Mississippi.
17. Soil information from the USDA's Soil Survey of Bolivar County, Mississippi, issued December 1958 and the USDA's NRCS Web Soil Survey Internet website.

18. Correspondence to and from the USDA Natural Resource Conservation Service (NRCS) office in Jackson, Mississippi regarding impacts to prime farmland, unique farmland, and land of statewide or local importance.
19. A reconnaissance of the subject property.

# Figures



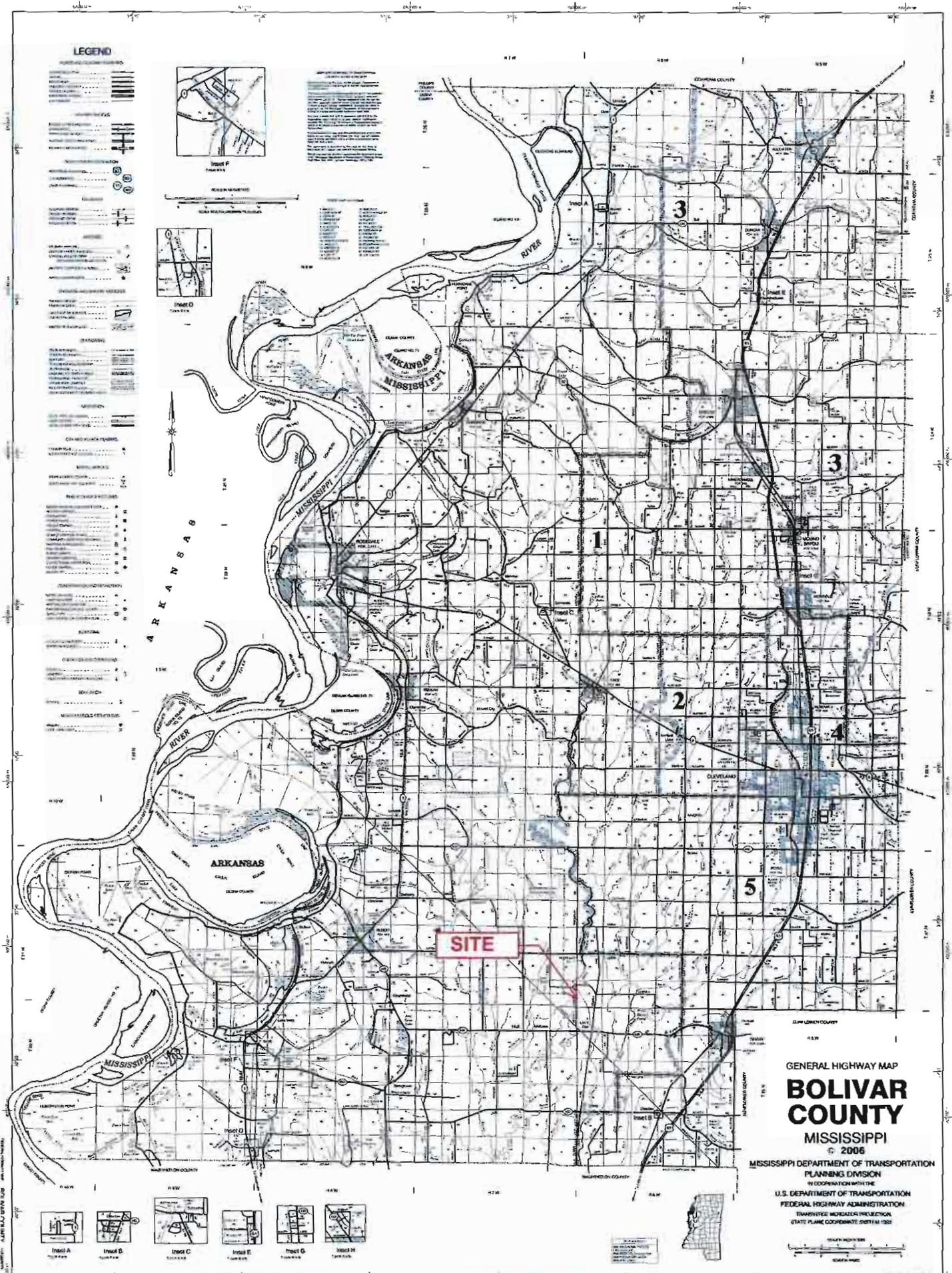
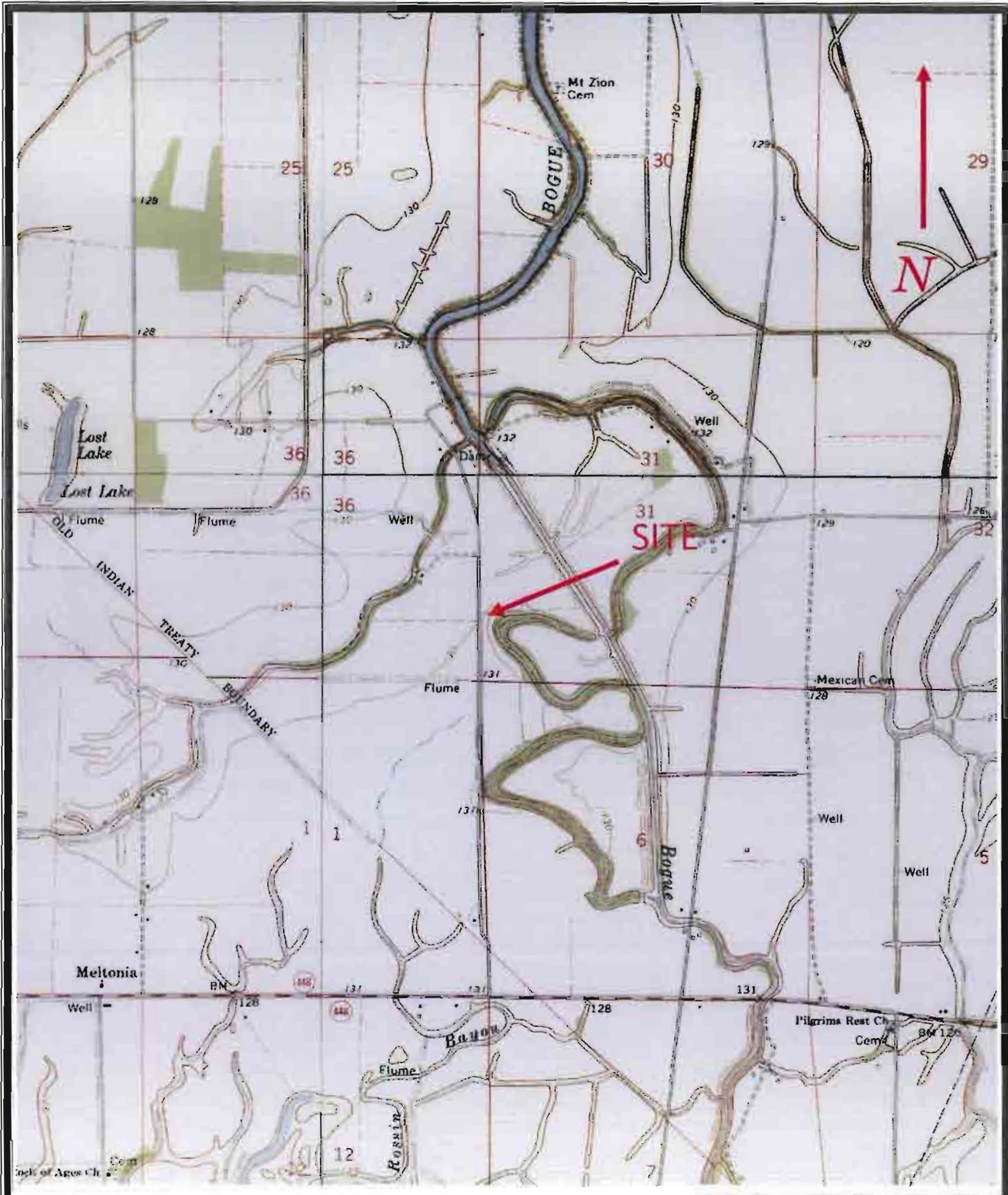


Figure 2 - Site Locator Map - County

JSE01P1116

MSWIN 30213 Shaw

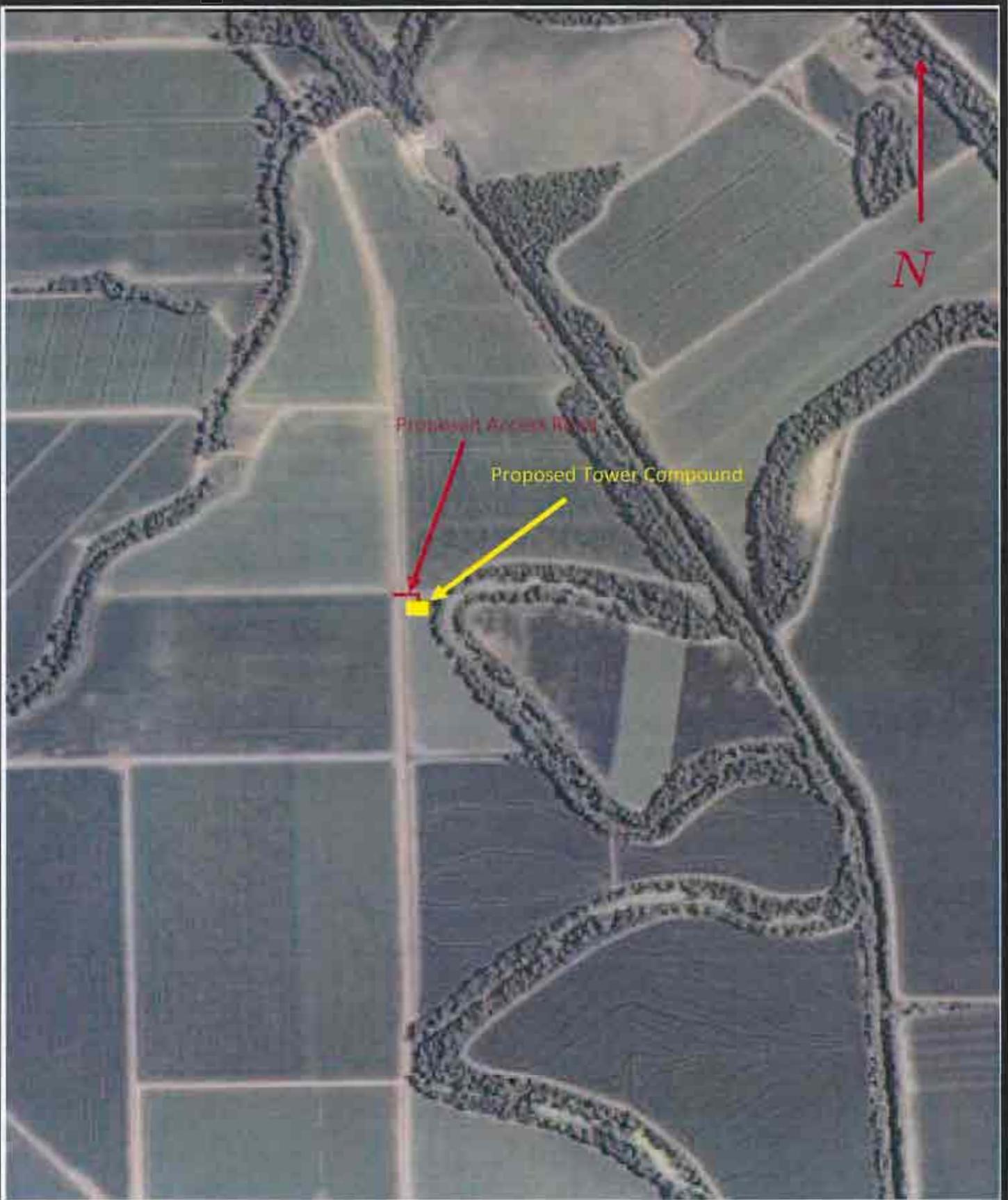


**Environmental Engineers, Inc.**

Subject:  
 MSWIN 30213 Shaw Communications Facility  
 Shaw, Bolivar County, Mississippi  
 Environmental Engineers, Inc. Project No.: JSE01P1116

Figure 3  
 Site Location Map  
 Scale: 1" = 2000'





**Environmental Engineers, Inc.**

Subject:  
MSWIN 30213 Shaw Communications Facility  
Shaw, Bolivar County, Mississippi  
Environmental Engineers, Inc. Project No.: JSE01P1116

Figure 4  
2010 Aerial Photograph





View from the center of the site looking toward the north.



View from the center of the site looking toward the east.

## Environmental Engineers, Inc.

Subject:  
MSWIN 30213 Shaw Communications Facility  
Shaw, Bolivar County, Mississippi  
Environmental Engineers, Inc. Project No.: JSE01P1116

Figure 5  
Site Photographs





View from the center of the site looking toward the south.



View from the center of the site looking toward the west.

## Environmental Engineers, Inc.

Subject:  
MSWIN 30213 Shaw Communications Facility  
Shaw, Bolivar County, Mississippi  
Environmental Engineers, Inc. Project No.: JSE01P1116

Figure 6  
Site Photographs





Overall view of the tower facility from the proposed access road. View is toward the southeast.



View of the proposed access road from Bitter Creek Road. View is toward the east.

## Environmental Engineers, Inc.

Subject:  
MSWIN 30213 Shaw Communications Facility  
Shaw, Bolivar County, Mississippi  
Environmental Engineers, Inc. Project No.: JSE01P1116

Figure 7  
Site Photographs





View along Bitter Creek Road toward the north.



View along Bitter Creek Road toward the south.

## Environmental Engineers, Inc.

Subject:  
MSWIN 30213 Shaw Communications Facility  
Shaw, Bolivar County, Mississippi  
Environmental Engineers, Inc. Project No.: JSE01P1116

Figure 8  
Site Photographs





View across Bitter Creek Road from the proposed access road. View is toward the west.

## Environmental Engineers, Inc.

Subject:  
MSWIN 30213 Shaw Communications Facility  
Shaw, Bolivar County, Mississippi  
Environmental Engineers, Inc. Project No.: JSE01P1116

Figure 9  
Site Photographs





U.S. Fish and Wildlife Service

# National Wetlands Inventory

MSWIN 30213 B  
JSE01P1116

May 24, 2011



## Wetlands

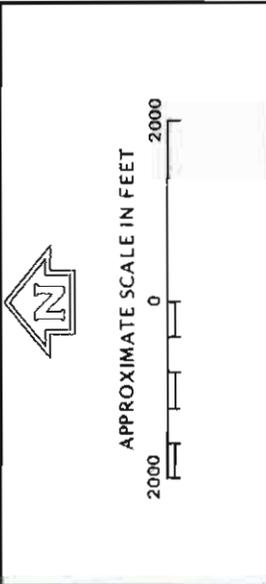
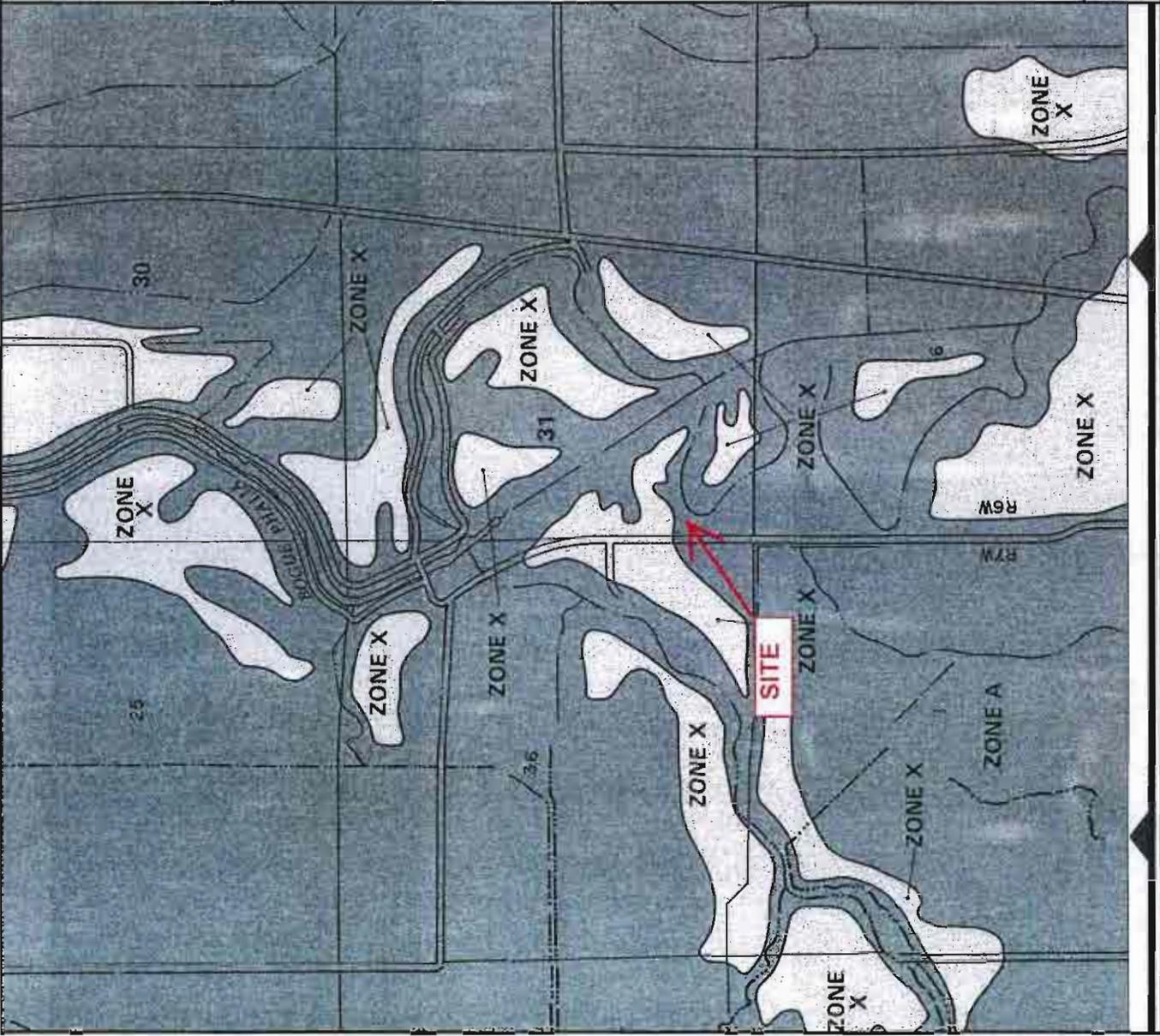
- Freshwater Emergent
- Freshwater Forested/Shrub
- Estuarine and Marine Deepwater
- Estuarine and Marine
- Freshwater Pond
- Lake
- Riverine
- Other

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

### User Remarks:

MSWIN 30213 B Shaw Communications Facility, Shaw, Bolivar County, MS

Figure 10 - National Wetland Inventory Map



**NATIONAL FLOOD INSURANCE PROGRAM**

**FIRM**  
FLOOD INSURANCE RATE MAP

**BOLIVAR COUNTY,  
MISSISSIPPI  
(UNINCORPORATED AREAS)**

**PANEL 275 OF 375**  
PANEL LOCATION

**COMMUNITY-PANEL NUMBER**  
280011 0275 B

**EFFECTIVE DATE:**  
JULY 17, 1989

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](http://www.msc.fema.gov)

Figure 11 - Flood Insurance Rate Map

JSE01P1116

MSWIN 30213 Shaw

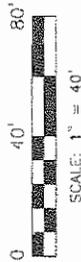
# Appendix A

**TOWER INFO**

TOWER TYPE: 400' SELF-SUPPORT  
 LATITUDE: 33°37'07.91" NORTH (NAD83)  
 LONGITUDE: 90°52'00.23" WEST (NAD83)  
 GROUND ELEVATION: 128.4' ABOVE MEAN SEA LEVEL (NAVD88)

**PLOTTABLE TITLE EXCEPTIONS**  
 Maxline Company, Commercial

As shown on survey  
 As shown on survey  
 As shown on survey  
 As shown on survey



GRID TO TRUE NORTH  
 CONVERGENCE  
 -0'18"

TRUE NORTH TO  
 MAGNETIC DECLINATION  
 0°03' E

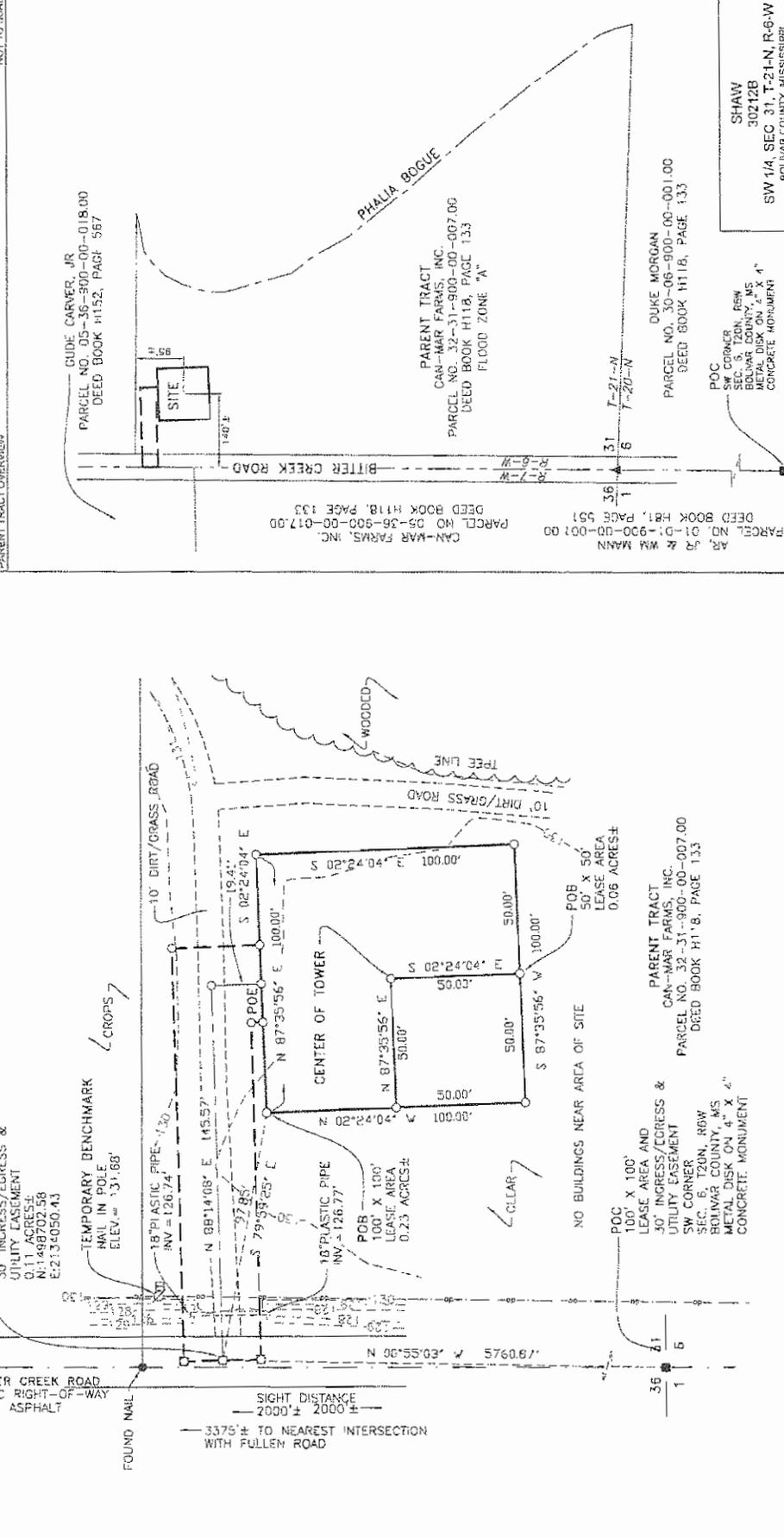
GPS SCALE FACTOR  
 0.999700132

**FLOOD NOTE**  
 By graphic polling only, the subject property lies in Zone "A" of the Flood Insurance Rate Map Community Panel No. 28001102755, which bears an effective date of 07/17/1989 and is in a special flood hazard area

**VICINITY MAP**  
 NOT TO SCALE  
 BITTER CREEK RD  
 FULLER RD  
 LONGSHOT RD  
 HWY 426

**LEGEND**  
 ○ = 3/8" CAPPED REBAR SET (SHAW LS 02859)  
 ● = FOUND PROPERTY MARKER  
 □ = SET PIN NAIL  
 POB = POINT OF BEGINNING  
 POC = POINT OF COMMENCEMENT  
 POE = POINT OF ENDING  
 ▲ = CALCULATED POINT  
 △ = RECORDED INFORMATION  
 X = POWER POLE  
 X = CUM ANCHOR  
 □ = POWER BOX  
 □ = TELEPHONE PEDESTAL  
 → = RIGHT-OF-WAY  
 → = OVERHEAD POWER

PROJECT NO. 11-0307  
 SHEET 1 OF 2  
 DRAWN BY: JAC  
 CHECKED BY: MK  
 FIELD WORK: JMS  
 DATE: 08/29/11  
 SCALE: AS SHOWN



SHAW  
 30212B  
 SW 1/4, SEC 31, T-21-N, R-6-W  
 BOLIVAR COUNTY, MISSISSIPPI

PARCEL NO. 01-D-1-900-00-001.00  
 DEED BOOK T81, PAGE 551  
 CAN-MAR FARMS, INC.  
 DEED BOOK H11B, PAGE 133

PARCEL NO. 03-36-900-00-017.00  
 DEED BOOK H11B, PAGE 133  
 CAN-MAR FARMS, INC.  
 DEED BOOK H11B, PAGE 133

PARCEL NO. 01-D-1-900-00-001.00  
 DEED BOOK T81, PAGE 551  
 CAN-MAR FARMS, INC.  
 DEED BOOK H11B, PAGE 133

PARCEL NO. 32-31-900-00-007.00  
 DEED BOOK H11B, PAGE 133  
 PARENT TRACT  
 CAN-MAR FARMS, INC.  
 DEED BOOK H11B, PAGE 133

POC  
 100' X 100'  
 LEASE AREA AND  
 30' INGRESS/CORRESS &  
 UTILITY EASEMENT  
 SW CORNER  
 SEC. 6, T20N, R6W  
 BOLIVAR COUNTY, MS  
 METAL DISK ON 4" X 4"  
 CONCRETE MONUMENT

**SMW Engineering Group, Inc.**  
 1500 Woods of Riverchase Drive  
 Houston, Texas 77057  
 Phone: 281-252-0985  
 Fax: 281-252-0985

**SHAW**  
 30212B  
 SW 1/4, SEC 31, T-21-N, R-6-W  
 BOLIVAR COUNTY, MISSISSIPPI

**SURVEYOR'S NOTES**

1. This is a Raw Land Tower Survey, made on the ground under the supervision of a Mississippi Registered Land Surveyor. Date of field survey is April 27, 2011.
2. The following surveying instruments were used at time of field visit: Nikon NPL-352, Total Station, Reflectorless and Inbar 4
3. Bearings are based on Mississippi West State Plane Coordinates (MAD 83) by GPS observation.
4. No underground utilities, underground encroachments or building foundations were measured or located as a part of this survey, unless otherwise shown. Trees and shrubs not located, unless otherwise shown.
5. Benchmark used is a GPS Continuously Operating Reference Station, PID DK1883. Control benchmark is as shown herein.
6. This survey was conducted for the purpose of a Raw Land Tower Survey only, and is not intended to delineate the registry jurisdiction of any federal, state, regional or local agency, town, commission or other similar entity.
7. Attention is directed to the fact that this survey may have been reduced or enlarged in size due to reproduction. This should be taken into consideration when using this survey.
8. This Survey hereby states the Candidate Coordinates and line elevations shown for the proposed centerline of the tower are accurate to within +/- .15 feet horizontally and to within +/- .3 feet vertically (FM Accuracy Code 1A).
9. Survey shown herein conforms to the Minimum Requirements as set forth by the State Board for a Class "A" Survey.
10. Field data upon which this map or plat is based has a closure precision of not less than one-foot in 15,000 feet (1:15,000) and no adjustment error that does not exceed 10 seconds times the square root of the number of angles turned. Field closures was not adjusted.
11. Field data upon which this map or plat is based has a closure precision of not less than one-foot in 15,000 feet (1:15,000) and no adjustment error that does not exceed 10 seconds times the square root of the number of angles turned. Field closures was not adjusted.
12. This survey is not valid without the original signature and the original seal of a state licensed surveyor and notepaper.
13. This survey does not constitute a boundary survey of the parcel. Any parcel tract property lines shown herein are from supplied information and may not be fully verified. The parcel tract right-of-way restriction shown herein is for informational purposes only.
14. No zoning regulations are requested per client.

**SURVEYOR'S CERTIFICATE**

I, William L. Zeigler, a duly Licensed Professional Land Surveyor, State of Mississippi, do hereby certify that the foregoing is a true and correct representation of the facts as found at the time of the survey, and more specifically, I do hereby certify that the survey conforms to the conditions and stipulations as checked (X) below.

- (X) 1. The boundary lines and dimensions of the Lease Parcel and Access and Easements ("Easement") indicated herein is correct.
- (X) 2. To the extent the Lease Parcel and Easement indicated herein is part of a parent parcel, such Lease Parcel and Easement are located within the boundaries of the record title legal description of such parent parcel. The location of said Lease Parcel and Easement relative to an approximation of the location of the boundaries of the parent tract is illustrated on the insert shown herein.
- (X) 3. Copied iron pins are set at each Lease Parcel corner unless otherwise indicated herein.
- (X) 4. The distance from the nearest intersecting public street or road is as shown herein.
- (X) 5. Correctly shown the location and dimensions of all obstructions, road, right-of-way, easement and other matters of record which the surveyor has been advised affects the Lease Parcel and Easement (each has been identified by instrument volume and page number if available).
- (X) 6. Except as shown, there are no visible encroachments, rights-of-way, party walls or conflicts affecting the Lease Parcel and Easement. Further, this survey is not subject to any easements or rights-of-way not visible on the ground.
- (X) 7. The location of all buildings, structures and other improvements of visible items affecting the Lease Parcel and Easement, if shown, are as indicated herein. The location of all other buildings, structures and other improvements of visible items on the parcel tract, if shown herein, are approximately in nature, except that the Lease Parcel and Easement are entirely located within the boundaries of the parent parcel, as shown on the map.
- (X) 8. Except as shown, there are no visible professions on adjoining premises, streets or alleys by any building, structure or other improvements situated on the Lease Parcel and Easement.
- (X) 9. Except as shown, there are no visible encroachments onto the Lease Parcel and Easement by any building, structure or other improvements situated on adjoining premises.
- (X) 10. By graphic platting only, the subject property lies in Zone "A" of the Flood Insurance Rate Map Community Panel No. 28001102735, which bears an effective date of 07/17/1989 and is in a special flood hazard area.
- (X) 11. Correctly describes and shows the location of all public streets and roads visibly providing access to and from the subject property, and correctly sets forth the municipal address of the subject property.
- (X) 12. Correctly identify the latitudinal and longitudinal coordinates of the tower(s) location(s), to the nearest tenth of a second. The elevation above mean sea level of the base and tip of each tower plus or minus 20 feet, the elevation of the tip of each tower as measured from ground level, and additionally, the elevation of the top of the tower as measured from the tower as measured from ground level, is shown on the map. The tower as measured from ground level is shown on the tower as measured from ground level. The tower as measured from ground level is shown on the tower as measured from ground level.
- (X) 13. Survey of the Lease Parcel and Easement meets or exceeds the minimum technical standards for Land Boundary surveys set forth by Mississippi State Law.
- (X) 14. If the survey is developed electronically (CAD File), it is essential that a disk be provided/kept with the survey.

William L. Zeigler, III  
 Mississippi License No. 02859

**PARENT TRACT (DEED BOOK H-118, PAGE 133)**

PARCEL 1c:

That part of Lots 14, 15, and 16, in Section 35, Township 21 North, Range 7 West, and of the Southeast quarter of the Southwest quarter of Section 31, Township 21 North, Range 6 West, as well as certain other land, to-wit: a total 625 feet North of the Southeast corner of Section 15, Township 21 North, Range 7 West, thence East 365 feet to the center of Bayou Pardo; thence in a Southerly direction along the center of Bayou Pardo to the South line of Section 31, Township 21 North, Range 6 West, thence West 4,114 feet to the center of a bayou, thence in a Northwesterly direction along the center of a bayou to a point due West of the Point of Beginning; thence East 1760 feet to the Point of Beginning, and containing 80 acres of land, more or less, and being part of the Parcel Tract according to a plat of record in Record of Surveys No. 1 at page 1 of Restate, and Record of Survey No. 1 at page 17 of Cleveland, Mississippi, in the First and Second Judicial Districts of Bolivar County, Mississippi.

**100' X 50' LEASE AREA (AS SURVEYED)**

A lease area being a portion of that certain tract of land as recorded in Deed Book H118, Page 133 in the Chancery Clerk's Office, Bolivar County, Mississippi lying in the SW 1/4 of Section 31, Township 21 North, Range 6 West, said County and being more particularly described as follows:

Commence at a metal disk on a 4" x 4" concrete monument found in place at the SW corner of Section 6, Township 20 North, Range 6 West in said County, thence run N 07°55'37" W for a distance of 3780.87 feet to a p.c. nail set at the center of Miller Creek Road having Mississippi West State Plane Coordinates N 4149702.58 E 2134050.43, thence S 78°59'25" E for a distance of 97.85 feet to a 3/8" capped rebar (SNW LS 02859) set; thence N 87°35'58" E for a distance of 100.00 feet to a 3/8" capped rebar (SNW LS 02859) set; thence S 02°24'04" W for a distance of 100.00 feet to a 5/8" capped rebar (SNW LS 02859) set; thence S 87°57'56" W for a distance of 50.00 feet to the Point of Beginning; thence continue S 87°35'58" W for a distance of 30.00 feet to a 3/8" capped rebar (SNW LS 02859) set; thence N 02°24'04" W for a distance of 50.00 feet to a 5/8" capped rebar (SNW LS 02859) set; thence N 87°35'58" E for a distance of 50.00 feet to a 3/8" capped rebar (SNW LS 02859) set; thence S 02°24'04" E for a distance of 30.00 feet to the Point of Beginning. Said above described parcel containing 0.06 acres, more or less.

**50' X 50' LEASE AREA (AS SURVEYED)**

A lease area being a portion of that certain tract of land as recorded in Deed Book H118, Page 133 in the Chancery Clerk's Office, Bolivar County, Mississippi lying in the SW 1/4 of Section 31, Township 21 North, Range 6 West, said County and being more particularly described as follows:

Commence at a metal disk on a 4" x 4" concrete monument found in place at the SW corner of Section 6, Township 20 North, Range 6 West in said County, thence run N 07°55'37" W for a distance of 3780.87 feet to a p.c. nail set at the center of Miller Creek Road having Mississippi West State Plane Coordinates N 4149702.58 E 2134050.43, thence S 78°59'25" E for a distance of 97.85 feet to a 3/8" capped rebar (SNW LS 02859) set; thence N 87°35'58" E for a distance of 100.00 feet to a 3/8" capped rebar (SNW LS 02859) set; thence S 02°24'04" W for a distance of 100.00 feet to a 5/8" capped rebar (SNW LS 02859) set; thence S 87°57'56" W for a distance of 50.00 feet to the Point of Beginning; thence continue S 87°35'58" W for a distance of 30.00 feet to a 3/8" capped rebar (SNW LS 02859) set; thence N 02°24'04" W for a distance of 50.00 feet to a 5/8" capped rebar (SNW LS 02859) set; thence N 87°35'58" E for a distance of 50.00 feet to a 3/8" capped rebar (SNW LS 02859) set; thence S 02°24'04" E for a distance of 30.00 feet to the Point of Beginning. Said above described parcel containing 0.06 acres, more or less.

**30' INGRESS/EGRESS & UTILITY EASEMENT (AS SURVEYED)**

An easement being a portion of that certain tract of land as recorded in Deed Book H118, Page 133 in the Chancery Clerk's Office, Bolivar County, Mississippi lying in the SW 1/4 of Section 31, Township 21 North, Range 6 West, said County and being more particularly described as follows:

Commence at a metal disk on a 4" x 4" concrete monument found in place at the SW corner of Section 6, Township 20 North, Range 6 West in said County, thence run N 07°55'37" W for a distance of 3780.87 feet to a p.c. nail set at the center of Miller Creek Road having Mississippi West State Plane Coordinates N 4149702.58 E 2134050.43, thence S 78°59'25" E for a distance of 97.85 feet to a 3/8" capped rebar (SNW LS 02859) set; thence N 87°35'58" E for a distance of 100.00 feet to a 3/8" capped rebar (SNW LS 02859) set; thence S 02°24'04" W for a distance of 100.00 feet to a 5/8" capped rebar (SNW LS 02859) set; thence S 87°57'56" W for a distance of 50.00 feet to the Point of Beginning; thence continue S 87°35'58" W for a distance of 30.00 feet to a 3/8" capped rebar (SNW LS 02859) set; thence N 02°24'04" W for a distance of 50.00 feet to a 5/8" capped rebar (SNW LS 02859) set; thence N 87°35'58" E for a distance of 50.00 feet to a 3/8" capped rebar (SNW LS 02859) set; thence S 02°24'04" E for a distance of 30.00 feet to the Point of Beginning. Said above described easement contains 0.11 acres, more or less.

Less and except any and all portion of Miller Creek Road public right-of-way above and across said above described easement.

# Appendix B



## **ENVIRONMENTAL ENGINEERS, INC.**

**11578 US Highway 411, Odenville, Alabama 35120**

*Environmental, Remediation, and Geological Consultants*

May 25, 2011

Dr. Homer L. Wilkes, State Conservationist  
U.S. Department of Agriculture, Natural Resources Conservation Service  
100 W. Capital Street  
Suite 1321 Federal Building  
Jackson, MS 39269

Subject:  
**Request for Project Review**  
**MSWIN 30213 B Shaw Communications Facility**  
**Shaw, Bolivar County, Mississippi**  
Environmental Engineers, Inc. Project No.: JSE01P1116

Dear Dr. Wilkes:

Environmental Engineers, Inc. is requesting comment on behalf of Towers of Mississippi, the State of Mississippi, and the Federal Emergency Management Agency (FEMA) regarding construction of a wireless communications tower in Bolivar County, Mississippi. This project is being funded using a FEMA grant (2008-MS-MX-0001) and the State of Mississippi's expenditures at this site will include construction of a telecommunications facility, purchase and installation of 700 MHz RF equipment and microwave telecommunication backbone network, equipment shelter, network integration, acceptance testing, communication hardware optimization and system exercising and piloting of interoperability capabilities of the network.

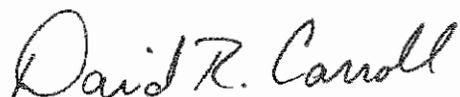
The site is depicted on the United States Geological Survey 7.5-minute Topographic Quadrangle "Shaw, Mississippi," dated 1967. The site is located in the southwest  $\frac{1}{4}$  or the southwest  $\frac{1}{4}$  of Section 31, Township 21 North, Range 6 West, Bolivar County, Mississippi, at latitude 33° 37' 7.391" north and longitude 90° 52' 0.239" west (Figure 1). The site consists of a proposed 100-foot by 100-foot lease area and proposed access road located off of Bitter Creek Road near Shaw, Mississippi. The site consists of a level agricultural field. The access road follows an existing farm road eastward then turns south to the site center. Proposed activities consist of construction of a 450-foot self-supporting communications tower with associated equipment compound, enclosing the compound in a fence, placement of support equipment within the compound, and covering the compound with gravel. Based on the Flood Insurance Rate Map Number 280011-0275 B which bears effective date of July 17, 1989, the proposed project is located in an area described as Zone A which is described as special flood hazard areas inundated by 100-year flood, no base flood elevations determined. According to the USDA's Natural Resources Conservation Service (NRCS) Soil Survey of Bolivar County Mississippi, issued December 1958, site soils are classified as Sharkey clay, nearly level phase. I have included a site location map, site photographs, and the portion of the 2010 aerial photograph depicting the site location for your review.

**Phone: (205) 629-3868 • Fax: (877) 847-3060**

Environmental Engineers, Inc. has been retained by Towers of Mississippi and the State of Mississippi to prepare an Environmental Assessment (EA) for the proposed project. Please reference the Environmental Engineers, Inc. project number (JSE01P1116) in correspondence regarding this site. Thank you for your time and assistance and we look forward to your response. Please contact me by telephone at (205) 629-3868, electronic mail at [dcarroll@envciv.com](mailto:dcarroll@envciv.com), or U.S. mail at the letterhead address if you have any questions or comments.

Sincerely,

ENVIRONMENTAL ENGINEERS, INC.

A handwritten signature in black ink that reads "David R. Carroll". The signature is written in a cursive style with a large initial "D".

David Carroll  
Staff Geologist

Attachments Site Location Map, Site Photographs, 2010 Aerial Photograph

7010 0290 0003 5723 8092

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Return Receipt Fee (Endorsement Required)		
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Total Postage & Fees	\$16.23	JSE 011116

Sent To: Dr. Homer R. Wilkes, State Conservator  
 Street, Apt. No., or PO Box No.  
 City, State, ZIP+4

PS Form 3811, August 2006 See Reverse for Restrictions

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:  
 Dr. Homer R. Wilkes  
 State Conservator  
 U.S. Dept. of Ag, NRAS  
 100 W Capital Street  
 Suite 1321 Federal Bldg  
 Jackson, MS 39209

2. Article Number  
 (Transfer from service label)

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  Agent  
 Kay Armstrong  Addressee

B. Received By (Printed Name) Kay Armstrong

C. Date of Delivery 5-31-2011

D. Is delivery address different from item 1?  Yes  
 If YES, enter delivery address below:  No

3. Service Type  
 Certified Mail  Express Mail  
 Registered  Return Receipt for Merchandise  
 Insured Mail  C.O.D.

4. Restricted Delivery? (Extra Fee)  Yes

7010 0290 0003 5723 8092

United States Department of Agriculture



Natural Resources Conservation Service  
Suite 1321, Federal Building  
100 West Capitol Street  
Jackson, MS 39269

JSE0101116

June 28, 2011

David R. Carroll  
Staff Geologist  
Environmental Engineers, Inc.  
11578 US Highway 411  
Odenville, AL 35120

Dear Mr. Carroll:

This is in response to your letter dated May 25, 2011, regarding the Request for Project Review Proposed MSWIN 30213 B Shaw Communications Facility in Shaw in Bolivar County, Mississippi.

The proposed activity will not significantly impact the site. No FPPA determination is required.

Sincerely,

  
Delaney B. Johnson  
State Soil Scientist

Environmental Engineers Inc.

JUL 02 2011

RECEIVED

# Appendix C



## **ENVIRONMENTAL ENGINEERS, INC.**

**11578 US Highway 411, Odenville, Alabama 35120**

*Environmental, Remediation, and Geological Consultants*

May 25, 2011

Mr. David Lofton  
U.S. Army Corps of Engineers/Vicksburg District  
4155 East Clay Street  
Vicksburg, Mississippi 39183

Subject:  
**Request for Project Review**  
**MSWIN 30213 B Shaw Communications Facility**  
**Shaw, Bolivar County, Mississippi**  
Environmental Engineers, Inc. Project No.: JSE01P1116

Dear Mr. Lofton:

Environmental Engineers, Inc. is requesting comment on behalf of Towers of Mississippi, the State of Mississippi, and the Federal Emergency Management Agency (FEMA) regarding construction of a wireless communications tower in Bolivar County, Mississippi. This project is being funded using a FEMA grant (2008-MS-MX-0001) and the State of Mississippi's expenditures at this site will include construction of a telecommunications facility, purchase and installation of 700 MHz RF equipment and microwave telecommunication backbone network, equipment shelter, network integration, acceptance testing, communication hardware optimization and system exercising and piloting of interoperability capabilities of the network.

The site is depicted on the United States Geological Survey 7.5-minute Topographic Quadrangle "Shaw, Mississippi," dated 1967. The site is located in the southwest  $\frac{1}{4}$  or the southwest  $\frac{1}{4}$  of Section 31, Township 21 North, Range 6 West, Bolivar County, Mississippi, at latitude  $33^{\circ} 37' 7.391''$  north and longitude  $90^{\circ} 52' 0.239''$  west (Figure 1). The site consists of a proposed 100-foot by 100-foot lease area and proposed access road located off of Bitter Creek Road near Shaw, Mississippi. The site consists of a level agricultural field. The access road follows an existing farm road eastward then turns south to the site center. Proposed activities consist of construction of a 450-foot self-supporting communications tower with associated equipment compound, enclosing the compound in a fence, placement of support equipment within the compound, and covering the compound with gravel. Based on the Flood Insurance Rate Map Number 280011-0275 B which bears effective date of July 17, 1989, the proposed project is located in an area described as Zone A which is described as special flood hazard areas inundated by 100-year flood, no base flood elevations determined. According to the USDA's Natural Resources Conservation Service (NRCS) Soil Survey of Bolivar County Mississippi, issued December 1958, site soils are classified as Sharkey clay, nearly level phase. I have included a site location map, site photographs, and the portion of the 2010 aerial photograph depicting the site location for your review.

**Phone: (205) 629-3868 • Fax: (877) 847-3060**

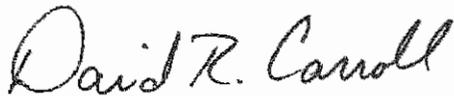
The responsible official for this project is:

Mr. Taylor Robinson  
Towers of Mississippi  
31560 Blakely Way  
Spanish Fort, Alabama 36532  
Telephone (205) 266-4466

Environmental Engineers, Inc. has been retained by Towers of Mississippi and the State of Mississippi to prepare an Environmental Assessment (EA) for the proposed project. Please reference the Environmental Engineers, Inc. project number (JSE01P1116) in correspondence regarding this site. Thank you for your time and assistance and we look forward to your response. Please contact me by telephone at (205) 629-3868, electronic mail at [dcarroll@envciv.com](mailto:dcarroll@envciv.com), or U.S. mail at the letterhead address if you have any questions or comments.

Sincerely,

ENVIRONMENTAL ENGINEERS, INC.

A handwritten signature in black ink that reads "David R. Carroll". The signature is written in a cursive, flowing style.

David Carroll  
Staff Geologist

Attachments Site Location Map, Site Photographs, Aerial Photograph

7010 0290 0003 5723 8115

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Sent to Mr. David Lofton  
 Street, Apt. No., or PO Box No. \_\_\_\_\_  
 City, State, ZIP+4 \_\_\_\_\_  
 PS Form 3800, August 2006 See Reverse for Instructions

**SENDER: COMPLETE THIS SECTION**

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- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:  
Mr. David Lofton  
U.S. Army Compo of Engineers  
Vicksburg District  
455 East Clay Street  
Vicksburg, MS 39183

2. Article Number  
 (Transfer from service label)

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature [Signature]  Agent  Addressee

B. Received by / Printed Name [Signature] C. Date of Delivery 5.31.11

D. Is delivery address different from item 1?  Yes  
 If YES, enter delivery address below:  No

3. Service Type  
 Certified Mail  Express Mail  
 Registered  Return Receipt for Merchandise  
 Insured Mail  C.O.D.

4. Restricted Delivery? (Extra Fee)  Yes

7010 0290 0003 5723 8115



## DEPARTMENT OF THE ARMY

VICKSBURG DISTRICT, CORPS OF ENGINEERS  
4155 CLAY STREET  
VICKSBURG, MISSISSIPPI 39183-3435

REPLY TO  
ATTENTION OF:

June 17, 2011

Environmental Engineers Inc.

JUN 22 2011

Operations Division

RECEIVED

SUBJECT: Towers of Mississippi - MSWIN 30213 B Shaw  
Communications Facility, Project No. JSE01P1116

Mr. Taylor Robinson  
Towers of Mississippi  
31560 Blakely Way  
Spanish Fort, Alabama 36532

Dear Mr. Robinson:

This letter is in response to the May 25, 2011, letter concerning possible regulatory requirements for the proposed MSWIN 30213 B Shaw Communications Facility, Bolivar County, Mississippi.

Based upon the information provided (enclosure 1), it appears that a Department of the Army permit, pursuant to Section 10 of the Rivers and Harbors Act of 1899 and Section 404 of the Clean Water Act, will not be required for the proposed work. In the event that project plans are changed, or if you anticipate any additional construction, please contact this office for a reevaluation of permit requirements and refer to Identification No. MVK-2011-543 when submitting the information.

This determination of Department of the Army regulatory requirements was based upon a preliminary jurisdictional determination that there are no jurisdictional areas being impacted by the proposed work on the property subject to regulation pursuant to Section 10 of the Rivers and Harbors Act of 1899 and/or to Section 404 of the Clean Water Act. An appeals form for this preliminary jurisdictional determination has been enclosed for your review (enclosure 2).

This determination of Department of the Army regulatory requirements does not convey any property rights, either in real estate or material or any exclusive privileges, and does not authorize any injury to property or invasion of rights or local laws or regulations, or obviate the requirement to obtain State or local assent required by law for the activity discussed herein.

If we may be of any further assistance in this matter, please contact Ms. Cori Shiers of this office, telephone (601) 631-5369, fax (601) 631-5459, or e-mail address: [regulatory@usace.army.mil](mailto:regulatory@usace.army.mil).

The Vicksburg District Regulatory Branch is committed to providing quality and timely service to our customers. In an effort to improve customer service, please take a moment to complete the Customer Service Survey found on our web site at <http://per2.nwp.usace.army.mil/survey.html>. If it is more convenient for you, please complete and return the enclosed postage-paid post card (enclosure 3).

I am forwarding a copy of this letter to Mr. David R. Carroll, Environmental Engineers, Incorporated, 11578 US Highway 411, Odenville, Alabama 35120.

Sincerely,



David Lofton  
Chief, Permit Section  
Regulatory Branch

Enclosures

# Appendix D



**ENVIRONMENTAL ENGINEERS, INC.**

**11578 US Highway 411, Odenville, Alabama 35120**

*Environmental, Remediation, and Geological Consultants*

May 25, 2011

Mr. Stephen Ricks  
United States Fish and Wildlife Service  
6578 Dogwood View Parkway  
Jackson, Mississippi 39213

Subject:  
**MSWIN 30213 B Shaw Communications Facility**  
**Shaw, Bolivar County, Mississippi**  
Environmental Engineers, Inc. Project No.: JSE01P1116

Dear Mr. Ricks:

Environmental Engineers, Inc. is requesting comment from the U.S. Fish and Wildlife Service on behalf of Towers of Mississippi, the State of Mississippi, and the Federal Emergency Management Agency regarding impact to threatened or endangered species by construction of a wireless communications tower in Bolivar County, Mississippi.

The site is depicted on the United States Geological Survey 7.5-minute Topographic Quadrangle "Shaw, Mississippi," dated 1967. The site is located in the southwest ¼ or the southwest ¼ of Section 31, Township 21 North, Range 6 West, Bolivar County, Mississippi, at latitude 33° 37' 7.391" north and longitude 90° 52' 0.239" west (Figure 1). The site consists of a proposed 100-foot by 100-foot lease area and proposed access road located off of Bitter Creek Road near Shaw, Mississippi. The site consists of a level agricultural field. The access road follows an existing farm road eastward then turns south to the site center. Proposed activities consist of construction of a 450-foot self-supporting communications tower with associated equipment compound, enclosing the compound in a fence, placement of support equipment within the compound, and covering the compound with gravel. I have included a site location map, site photographs and a portion of the 2010 aerial photograph for your review.

Environmental Engineers, Inc. appreciates the opportunity to provide this information. Please reference the Environmental Engineers, Inc. project number (JSE01P1116) in correspondence regarding this site. Thank you for your time and assistance and we look forward to your response. Please call us at (205) 629-3868 if you have any questions or comments.

Sincerely,

ENVIRONMENTAL ENGINEERS, INC.

David Carroll  
Staff Geologist

Attachments Site Location Map, Site Photographs, Aerial Photograph

**Phone: (205) 629-3868 • Fax: (877) 847-3060**

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Return Receipt Fee (Endorsement Required)	
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Total Postage & Fees	<div style="font-size: 1.2em; font-weight: bold;">\$6.23</div> <div style="font-size: 1.2em; font-weight: bold;">JSE 11/11/16</div>
Sent to: <u>Mr. Stephen Ricks</u> Street, Apt. No., or PO Box No. _____ City, State, ZIP+4 _____	

PS Form 3800, August 2006 See Reverse for Instructions

7010 0290 0003 5723 8078

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> <li>■ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li> <li>■ Print your name and address on the reverse so that we can return the card to you.</li> <li>■ Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>	<p>A. Signature <span style="float: right;"><input type="checkbox"/> Agent <input type="checkbox"/> Addressee</span></p> <p><input checked="" type="checkbox"/> <u>D. Lewis</u></p> <p>B. Received by (Printed Name) <span style="float: right;">C: Date of Delivery</span></p> <p><u>D. Lewis</u> <span style="float: right;"><u>5/31</u></span></p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>
<p>1. Article Addressed to:</p> <p style="font-size: 1.2em;">Mr. Stephen Ricks          USF&amp;MS          6578 Dogwood View Plwy          Jackson, MS 39213</p>	<p>3. Service Type</p> <p><input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail  <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise  <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p> <p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>



United States Department of the Interior

FISH AND WILDLIFE SERVICE  
Mississippi Field Office  
6578 Dogwood View Parkway, Suite A  
Jackson, MS 39213



May 31, 2011

Tails Number: 43910-2011-I-0601

Mr. David Carroll  
Environmental Engineers, Inc.  
11578 US Highway 411  
Odenville, Alabama 35120

Environmental Engineers Inc.

JUN 03 2011

RECEIVED

RE: Tower Proposal in Bolivar County, Mississippi, Project No: JSE01P1116

Dear Mr. Carroll:

The U.S. Fish and Wildlife Service (Service) received your letter dated May 25, 2011, regarding the construction of a 450-foot self-supporting telecommunications tower and fenced tower compound located in an agricultural field located off of Bitter Creek Road near Shaw, Mississippi. Our comments are submitted in accordance with the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.) and the Migratory Bird Treaty Act (16 U.S.C. 703-711).

There is one terrestrial listed plant species, pondberry (*Lindera melissifolia*), that may be found in Bolivar County. This plant grows in wet woodlands. The proposed tower site does not provide suitable habitat for pondberry. However, due to the adverse impact these towers can have on migratory birds, we have included our Service recommendations in an attachment.

Thank you for the opportunity to comment on this project. Please contact Terri Jacobson at (601) 321-1129 if your project plans change or if you have any questions. For a current list of endangered species, check out our web page of [www.fws.gov/mississippiES/endsp.html](http://www.fws.gov/mississippiES/endsp.html).

Sincerely,

for Stephen Ricks  
Field Office Supervisor

# Appendix E

## U.S. Fish and Wildlife Service Tower Guidance

### Communications Tower Siting, Construction, Operation, and Decommissioning

The Migratory Bird Treaty Act (16 U.S.C. 703-712) prohibits the taking, killing, possession, transportation, and importation of migratory birds, their eggs, parts, and nests, except when specifically authorized by the Department of the Interior. While the Act has no provision for allowing an unauthorized take, it must be recognized that some birds may be killed at structures such as communications towers even if all reasonable measures to avoid it are implemented. The Service's Division of Law Enforcement carries out its mission to protect migratory birds not only through investigations and enforcement, but also through fostering relationships with individuals and industries that proactively seek to eliminate their impacts on migratory birds. While it is not possible under the Act to absolve individuals or companies from liability if they follow these recommended guidelines, the Division of Law Enforcement and Department of Justice have used enforcement and prosecutorial discretion in the past regarding individuals or companies who have made good faith efforts to avoid the take of migratory birds. Due to the adverse impact telecommunications towers can have on migratory birds, we would like to make the following recommendations:

1. Co-locate communications equipment on an existing communication tower or other structure (*e.g.*, billboard, water tower, or building mount). Depending on tower load factors, from 6 to 10 providers may collocate on an existing tower.
2. If co-location is not feasible and a new tower or towers are to be constructed, towers should be no more than 199 feet above ground level (AGL), use construction techniques which do not require guy wires (*e.g.*, use a lattice structure, monopole, etc.). Towers should be unlighted if Federal Aviation Administration regulations permit.
3. If constructing multiple towers, consider the cumulative impacts of all towers to migratory birds and threatened and endangered species as well as the impacts of each individual tower.
4. If at all possible, new towers should be sited within existing "antenna farms" (clusters of towers). Towers should not be sited in or near wetlands, other known bird concentration areas (*e.g.*, state or Federal refuges, staging areas, rookeries), in known migratory or daily movement flyways, or in habitat of threatened or endangered species. Towers should not be sited in areas with a high incidence of fog, mist, and low ceilings.
5. If taller (>199 feet AGL) towers requiring lights for aviation safety must be constructed, the minimum amount of pilot warning and obstruction avoidance lighting required by the FAA should be used. Unless otherwise required by the FAA, only white (preferable) or red strobe lights should be used at night, and these should be the minimum number, minimum intensity, and minimum number of flashes per minute (longest duration between flashes) allowable by the FAA. The use of solid red or pulsating red warning lights at night should be avoided. Current research indicates that solid or pulsating (beacon) red lights attract night-migrating birds at a much higher rate than white strobe lights. Red strobe lights have not yet been studied.

6. Tower designs using guy wires for support which are proposed to be located in known raptor or waterbird concentration areas or daily movement routes, or in major diurnal migratory bird movement routes or stopover sites, should have daytime visual markers on the wires to prevent collisions by these diurnally moving species. (For guidance on markers, see *Suggested Practices for Avian Protection on Power Lines: The State of the Art in 2006* - a profile of the research and safeguards available to remedy the issue of avian electrocutions. Copies can be obtained from Edison Electric Institute by calling 1-800-334-5453 or via the Internet at [http://www.eei.org/products\\_and\\_services/descriptions\\_and\\_access/index.htm](http://www.eei.org/products_and_services/descriptions_and_access/index.htm)).
7. Towers and appendant facilities should be sited, designed and constructed so as to avoid or minimize habitat loss within and adjacent to the tower "footprint". However, a larger tower footprint is preferable to the use of guy wires in construction. Road access and fencing should be minimized to reduce or prevent habitat fragmentation and disturbance, and to reduce above ground obstacles to birds in flight.
8. If significant numbers of breeding, feeding, or roosting birds are known to habitually use the proposed tower construction area, relocation to an alternate site is recommended.
9. In order to reduce the number of towers needed in the future, new towers should be designed structurally and electrically to accommodate comparable antennas for at least two additional users (minimum of three users for each tower structure), unless this design would require the addition of lights or guy wires to an otherwise unlighted and/or unguyed tower.
10. Security lighting for on-ground facilities and equipment should be down-shielded to keep light within the boundaries of the site.
11. Service personnel or researchers from the Communication Tower Working Group should be allowed, if asked, access to the site to evaluate bird use, conduct dead-bird searches, to place net catchments below the towers but above the ground, and to place radar, Global Positioning System, infrared, thermal imagery, and acoustical monitoring equipment as necessary to assess and verify bird movements and to gain information on the impacts of various tower sizes, configurations, and lighting systems.
12. Towers no longer in use or determined to be obsolete should be removed within twelve months of cessation of use.

These voluntary recommendations are based on the Service's Guidance on the Siting, Construction, Operation and Decommissioning of Communications Towers which can be found at <http://www.fws.gov/migratorybirds/issues/towers/comtow.html>

In order to obtain information on the usefulness of these guidelines in preventing bird strikes, and to identify any recurring problems with their implementation which may necessitate modifications, please advise us of the final location and specifications of the proposed tower. In your response please explain which of the recommended measures were implemented and if the recommended measures could not be implemented, please explain why they were not feasible.

# Appendix F

Avian Mitigation Plan  
Mississippi Wireless Integrated Network  
Mississippi Interoperable Communications Grant 2008-MS-MX-0001  
February 3, 2011

The Department of Homeland Security (DHS) Federal Emergency Management Agency (FEMA) Grant Programs Directorate (GPD) is providing funding through its Mississippi Interoperable Communications Grant 2008-MS-MX-0001 to the Mississippi Wireless Communication Commission (MWCC) to construct a statewide public safety radio system known as the Mississippi Wireless Integrated Network (MSWIN). The MSWIN program will result in the construction of approximately 140 communication towers (see attached map) throughout the state of Mississippi.

In accordance with the National Environmental Policy Act (NEPA) of 1969, the President's Council on Environmental Quality regulations implementing NEPA (40 Code of Federal Regulations (CFR) Parts 1500-1508), and FEMA's regulations implementing NEPA (44 CFR Part 10), Environmental Assessments (EA) were prepared for several proposed towers to be constructed under the MSWIN program. The purpose of the EAs is to evaluate the potential impacts of the proposed towers on the environment. Through the preparation of these EAs, FEMA identified a potential for cumulative impacts to migratory birds as a result of the MSWIN project as birds could be injured or killed by colliding in to guy wires and/or the tower structure, or could be disoriented by tower lighting. This Avian Mitigation Plan was developed by FEMA, MWCC and the Mississippi Department of Wildlife, Fisheries, and Parks (MDWFP) to address these potential cumulative impacts. The U.S. Fish and Wildlife Service (USFWS) Jackson, MS Ecological Services Office reviewed this Avian Mitigation Plan. MWCC is responsible for the cost of implementing the Avian Mitigation Plan.

**Background**

Following Hurricane Katrina in 2005, the Mississippi Legislature created the MWCC with the mission of implementing a statewide reliable, survivable, interoperable voice and data communication system for public safety and first responders. Congress appropriated \$140 million toward this effort. The MWCC has completed implementation of MSWIN on 71 sites in the southern half of the State and anticipates completion of the entire system (approximately 140 sites) in early 2012.

The MSWIN radio system is reliant on communication towers in order to operate. While MSWIN is vitally important to the first responders, the State recognizes the importance of building towers that will avoid possible harm to migratory birds. The conservation of birds will help sustain ecological integrity and ecosystem services, including insect control, pollination, and seed dispersal. Migratory bird conservation also meets the growing public interest in outdoor education and recreation.

In building MSWIN and using Federal funding, the State must be compliant with Federal, State and local regulations and guidelines pertinent to the project. These regulations include those of the Federal Communications Commission (FCC), the U. S. Fish and Wildlife Service (USFWS) and the Federal Aviation Administration (FAA) relative to

FEMA  
Avian Mitigation Plan  
Mississippi Wireless Integrated Network

frequency licensing and tower construction, as well as the NEPA requirements previously discussed.

The FCC maintains jurisdiction over tower sites and its rules, 47 C.F.R. §1.1307(a)(3), require applicants, licensees, and tower owners (Applicants) to consider the impact of proposed facilities under the Endangered Species Act (ESA), 16 U.S.C. s. 1531 et seq. Applicants must determine whether any proposed facilities may affect listed, threatened or endangered species or designated critical habitats, or are likely to jeopardize the continued existence of any proposed threatened or endangered species or designated critical habitats. In addition, USFWS has formulated and published voluntary guidelines for the siting and operation of towers intended to address potential effects on migratory birds. These guidelines and an accompanying tower site evaluation form are posted on the USFWS website (<http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm>). According to USFWS, the guidelines reflect USFWS' judgment of "the most prudent and effective measures for avoiding bird strikes at towers."

The documented avian collision risk is primarily towers taller than 1000' that use steady burning red lights at night. Towers of this height are always supported with guyed wire cables. Steady burning red lights are part of the FAA's A-2 lighting system where a tower is painted aviation orange for daytime obstruction avoidance and red lights at night.

The MSWIN towers which have an average height of 425 feet, generally use two types of lighting systems, the white mid intensity strobes, FAA designation as D1 or D2 and the A1 or A2 system which uses orange and white paint in seven alternating bands for day time obstruction avoidance along with red lights at night for night time obstruction avoidance. Towers 500 feet or less use white mid intensity strobes and towers 500 to 600 feet use orange paint and red lights.

The MSWIN system uses the most avian friendly lights possible for tower sites, however the FAA does not approve the use of white lights in all geographic areas and on numerous occasions has denied such request, based primarily on the premise that white lights are more difficult to distinguish at night than red lights and are more problematic in areas where emergency medical helicopters and other low flying aircraft such as military may be present

**Mitigation, Monitoring and Reporting of Avian Injuries and Deaths at MSWIN Tower Sites**

MWCC has in the past and will continue to include the following mitigation measures in the design and deployment of MSWIN.

1. White tower lights are used where allowed by the FAA. Where red lights are required, halogen strobes are used instead of pulsing incandescent beacons.

FEMA  
Avian Mitigation Plan  
Mississippi Wireless Integrated Network

2. Site construction incorporates limited road improvements and site fencing to reduce land disturbance.
3. Tower locations are placed to avoid known bird rookeries and nesting grounds, and inspection of tower sites post-construction will help identify instances of avian injuries and deaths.
4. Towers are designed to allow for future use of other radio systems to reduce the number of towers required in the area. The average height of MSWIN towers is 425 feet allowing MSWIN to provide coverage of 97% of Mississippi's land area with only 135 RF sites.
5. Security lighting for on ground equipment is designed to focus in the secure compound to minimize disturbance of surrounding areas.

Additionally, the State of Mississippi will monitor avian mortality around its tower sites by providing a collection kit at each site along with a process to record the location of the deceased bird and deliver its remains to the MDWFP for inclusion of the deceased avian into a central state data system. Over time, this practice will contribute scientific data that can be used by MDWFP and USFWS in determining the significance of potential impacts of towers on migratory birds. Where possible, attempts will be made to determine the cause of the bird's death (e.g., from a predator, virus, hunter or tower strike).

Each site will have a weather-proof enclosure containing rubber gloves, sealable containers of sufficient size to collect, contain and transport the deceased bird, and a form to document the circumstances of the bird's death. The carcasses will be collected in a manner to preserve the integrity of the find and transported to the MDWFP office in Jackson, MS for examination and documentation into the Avian Mortality database. USFWS will also be given access to the MDWFP's Avian Mortality database. If possible, the bird will be photographed in the field and at MDWFP.

In the unlikely event field technicians encounter an injured and living bird, all efforts will be made to recover, rehabilitate and release back to the wild. MWCC will work closely with the MDWFP to request assistance in those situations.

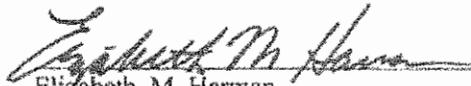
MDWFP and USFWS, upon request, will be allowed access to tower sites to document avian mortalities and injuries, monitor bird behavior, assess lighting impacts on migratory birds, and conduct similar research. If a tower is discovered to have adverse affects to migratory bird populations (i.e., greater than 10 bird kills per night), these towers will be reported immediately to the MDWFP, USFWS, and FEMA.

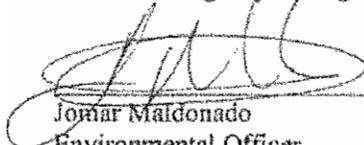
An annual report documenting the number of avian deaths recorded at MSWIN sites will be prepared for five consecutive years following conclusion of the construction of the towers comprising the MSWIN system. The reporting period will begin a year from the execution of this mitigation plan and extend until 5 years after the last FEMA funded tower is constructed. The report will be submitted to FEMA's Office of Environmental

FEMA  
Avian Mitigation Plan  
Mississippi Wireless Integrated Network

Planning and Historic Preservation and the Grant Program Directorate. The report will also be submitted to the USFWS in Jackson, MS (Ecological Services Office) and MDWFP.

Approved

 02/15/11  
Elizabeth M. Harman Date  
Assistant Administrator, Grant Program Directorate  
Federal Emergency Management Agency

 2/9/2011  
Jonar Maldonado Date  
Environmental Officer  
Federal Emergency Management Agency

 2/8/2011  
Bill Roach Date  
Executive Officer  
Mississippi Wireless Communication Commission

# Appendix G

## Henry Fisher

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**From:** towernotifyinfo@fcc.gov  
**Sent:** Monday, May 16, 2011 12:25 PM  
**To:** towerinfo@envciv.com  
**Subject:** Proposed Tower Structure Info - Email ID #2800841

Dear Henry A Fisher,

Thank you for submitting a notification regarding your proposed construction via the Tower Construction Notification System. Note that the system has assigned a unique Notification ID number for this proposed construction. You will need to reference this Notification ID number when you update your project's Status with us.

Below are the details you provided for the construction you have proposed:

Notification Received: 05/16/2011

Notification ID: 76526

Tower Owner Individual or Entity Name: Towers of Mississippi/State of Mississippi

Consultant Name: Henry A Fisher

Street Address: 11578 U.S. Highway 411

City: Odenville

State: ALABAMA

Zip Code: 35120

Phone: 205-629-3868

Email: [towerinfo@envciv.com](mailto:towerinfo@envciv.com)

Structure Type: UTOWER - Unguyed - Free Standing Tower

Latitude: 33 deg 37 min 7.3 sec N

Longitude: 90 deg 52 min 0.2 sec W

Location Description: Off of Bitter Creed Road

City: Shaw

State: MISSISSIPPI

County: BOLIVAR

Ground Elevation: 39.4 meters

Support Structure: 137.2 meters above ground level

Overall Structure: 137.2 meters above ground level

Overall Height AMSL: 176.6 meters above mean sea level

**Henry Fisher**

---

**From:** towernotifyinfo@fcc.gov  
**Sent:** Friday, May 20, 2011 2:01 AM  
**To:** towerinfo@envciv.com  
**Cc:** kim.pristello@fcc.gov; diane.dupert@fcc.gov  
**Subject:** NOTICE OF ORGANIZATION(S) WHICH WERE SENT PROPOSED TOWER CONSTRUCTION NOTIFICATION INFORMATION - Email ID #2803008

Dear Sir or Madam:

Thank you for using the Federal Communications Commission's (FCC) Tower Construction Notification System (TCNS). The purpose of this electronic mail message is to inform you that the following authorized persons were sent the information you provided through TCNS, which relates to your proposed antenna structure. The information was forwarded by the FCC to authorized TCNS users by electronic mail and/or regular mail (letter).

Persons who have received the information that you provided include leaders or their designees of federally-recognized American Indian Tribes, including Alaska Native Villages (collectively "Tribes"), Native Hawaiian Organizations (NHOs), and State Historic Preservation Officers (SHPOs). For your convenience in identifying the referenced Tribes and in making further contacts, the City and State of the Seat of Government for each Tribe and NHO, as well as the designated contact person, is included in the listing below. We note that Tribes may have Section 106 cultural interests in ancestral homelands or other locations that are far removed from their current Seat of Government. Pursuant to the Commission's rules as set forth in the Nationwide Programmatic Agreement for Review of Effects on Historic Properties for Certain Undertakings Approved by the Federal Communications Commission (NPA), all Tribes and NHOs listed below must be afforded a reasonable opportunity to respond to this notification, consistent with the procedures set forth below, unless the proposed construction falls within an exclusion designated by the Tribe or NHO. (NPA, Section IV.F.4).

The information you provided was forwarded to the following Tribes and NHOs who have set their geographic preferences on TCNS. If the information you provided relates to a proposed antenna structure in the State of Alaska, the following list also includes Tribes located in the State of Alaska that have not specified their geographic preferences. For these Tribes and NHOs, if the Tribe or NHO does not respond within a reasonable time, you should make a reasonable effort at follow-up contact, unless the Tribe or NHO has agreed to different procedures (NPA, Section IV.F.5). In the event such a Tribe or NHO does not respond to a follow-up inquiry, or if a substantive or procedural disagreement arises between you and a Tribe or NHO, you must seek guidance from the Commission (NPA, Section IV.G). These procedures are further set forth in the FCC's Declaratory Ruling released on October 6, 2005 (FCC 05-176).

1. THPO Kenneth H Carleton - Mississippi Band of Choctaw Indians - Choctaw, MS - electronic mail

Details: Please send all information via e-mail (and only via e-mail - no paper copies please) to: choctawhp@gmail.com (9 meg attachment limit)

The Mississippi Band of Choctaw Indians wishes to see full information packets for all towers within the designated areas for consultation.

Form 620, if it includes the a full text of the cultural resource survey with maps, is adequate for our needs. If your 620 does not include the text of the cultural resource survey, then attach it seperately.

Please include the tower identification (TCNS#, name, and any other information that may help us identify this site) and the county and state where the facility is proposed in the subject line.

If the applicant/tower builder receives no response from the Mississippi Band of Choctaw Indians within 30 days AFTER YOU HAVE E-MAILED THE AFOREMENTIONED INFORMATION TO US (begin counting the 30 day period AFTER the e-mail with all of the information has been sent), then the Mississippi Band of Choctaw Indians has no interest in participating in pre-construction review for the proposed site. The Applicant/tower builder, however, must immediately notify the Mississippi Band of Choctaw Indians in the event archaeological properties or human remains are discovered during construction, consistent with Section IX of the Nationwide Programmatic Agreement and applicable law.

2. Paralegal & Quapaw TCNS Representative Wendy A Huntzinger - Quapaw Tribe of Oklahoma c/o Conner & Winters - Tulsa, OK - electronic mail

3. Director of Historic Preservation / THPO Terry D Cole - Choctaw Nation of Oklahoma - Durant, OK - electronic mail and regular mail

Details: The Applicant may conclude that the Choctaw Nation of Oklahoma has no interest in a site if there is existing disturbance wherein the depth of the previous disturbance exceeds the proposed construction depth (excluding footing and other anchoring mechanisms) by at least 2 feet (Applying VI - D(2)(c)(i) of the Nationwide Programmatic Agreement concerning Field Surveys; 'In the Matter of Nationwide Programmatic Agreement Regarding the Section 106 National Historic Preservation Act Review Process,' Report and Order, 20 FCC Rcd. 1073, WT Docket No. 03-128, October 5, 2004).

Furthermore, the Choctaw Nation of Oklahoma does not have an interest in a Tower that will be constructed on an existing structure, developed land, or within city limits. However, any of the above mentioned criteria should be communicated to us if not evident in the initial Notification Details. For all other towers, we request a signed field survey report that meets the Federal guidelines set forth by the Department of the Interior and a site location map along with pictures for each project.

Additionally, the Choctaw Nation of Oklahoma has informed FCC Staff that if the Applicant does not receive a response from the Tribe within 30 days of a TCNS notification, then the Applicant SHOULD MAKE A GOOD FAITH EFFORT WITH A FOLLOW-UP PHONE CALL to make sure that the tribe is aware of the proposed tower project. However, should construction expose buried archaeological or building materials such as chipped stone, tools, pottery, bone, historical crockery, glass or metal items, this office should be contacted immediately @ 1-800-522-6170 ext. 2137. [n.b. Please reference the TCNS number in all communications that follow the initial notification.]

4. MEKKO and Acting Tribal Administrator Jennie Lillard - Kialegee Tribal Town - Wetumka, OK - regular mail

Details: If the Applicant receives no response from the Kialegee Tribal Town within 30 days after notification through TCNS, the Kialegee Tribal Town has no interest in participating in pre-construction review for the site. The Applicant, however, must immediately notify the Kialegee Tribal Town in the event archaeological properties or human remains are discovered during construction.

5. THPO Earl J Barbry Jr - Tunica-Biloxi Indians of Louisiana - Marksville, LA - regular mail

The information you provided was also forwarded to the additional Tribes and NHOs listed below. These Tribes and NHOs have NOT set their geographic preferences on TCNS, and therefore they are currently receiving tower notifications for the entire United States. For these Tribes and NHOs, you are required to use reasonable and good faith efforts to determine if the Tribe or NHO may attach religious and cultural significance to historic properties that may be affected by its proposed undertaking. Such efforts may include, but are not limited to, seeking information from the relevant SHPO or THPO, Indian Tribes, state agencies, the U.S. Bureau of Indian Affairs, or, where applicable, any federal agency with land holdings within the state (NPA, Section IV.B). If after such reasonable and good faith efforts, you determine that a Tribe or NHO may attach religious and cultural significance to historic properties in the area and the Tribe or NHO does not respond to TCNS notification within a reasonable time, you should make a reasonable effort to follow up, and must seek guidance from the Commission in the event of continued non-response or in the event of a procedural or substantive disagreement. If you determine that the Tribe or NHO is unlikely to attach religious and cultural significance to historic properties within the area, you do not need to take further action unless the Tribe or NHO indicates an interest in the proposed construction or other evidence of potential interest comes to your attention.

None

The information you provided was also forwarded to the following SHPOs in the State in which you propose to construct and neighboring States. The information was provided to these SHPOs as a courtesy for their information and planning. You need make no effort at this time to follow up with any SHPO that does not respond to this notification. Prior to construction, you must provide the SHPO of the State in which you propose to construct (or the Tribal Historic Preservation Officer, if the project will be located on certain Tribal lands), with a Submission Packet pursuant to Section VII.A of the NPA.

6. SHPO Lee Warner - Alabama Historical Commission - Montgomery, AL - electronic mail

7. Deputy SHPO Elizabeth Ann Brown - Alabama Historical Commission - Montgomery, AL - electronic mail

8. SHPO Cathie Matthews - Department of Arkansas Heritage - Little Rock, AR - electronic mail

9. Deputy SHPO Ken Grunewald - Department of Arkansas Heritage - Little Rock, AR - electronic mail

10. SHPO Elbert Hilliard - Mississippi Dept of Archives & History - Jackson, MS - regular mail

11. Deputy SHPO Kenneth H P'Pool - Division of Historic Preservation - Jackson, MS -  
electronic mail

If you are proposing to construct a facility in the State of Alaska, you should contact Commission staff for guidance regarding your obligations in the event that Tribes do not respond to this notification within a reasonable time.

Please be advised that the FCC cannot guarantee that the contact(s) listed above opened and reviewed an electronic or regular mail notification. The following information relating to the proposed tower was forwarded to the person(s) listed above:

Notification Received: 05/16/2011  
Notification ID: 76526  
Tower Owner Individual or Entity Name: Towers of Mississippi/State of Mississippi  
Consultant Name: Henry A Fisher  
Street Address: 11578 U.S. Highway 411  
City: Odenville  
State: ALABAMA  
Zip Code: 35120  
Phone: 205-629-3868  
Email: towerinfo@envciv.com

Structure Type: UTOWER - Unguyed - Free Standing Tower  
Latitude: 33 deg 37 min 7.3 sec N  
Longitude: 90 deg 52 min 0.2 sec W  
Location Description: Off of Bitter Creed Road  
City: Shaw  
State: MISSISSIPPI  
County: BOLIVAR  
Ground Elevation: 39.4 meters  
Support Structure: 137.2 meters above ground level  
Overall Structure: 137.2 meters above ground level  
Overall Height AMSL: 176.6 meters above mean sea level

If you have any questions or comments regarding this notice, please contact the FCC using the electronic mail form located on the FCC's website at:

<http://wireless.fcc.gov/outreach/notification/contact-fcc.html>.

You may also call the FCC Support Center at (877) 480-3201 (TTY 717-338-2824). Hours are from 8 a.m. to 7:00 p.m. Eastern Time, Monday through Friday (except Federal holidays). To provide quality service and ensure security, all telephone calls are recorded.

Thank you,  
Federal Communications Commission

# Appendix H

## General Information

1) (Select only one) ( NE ) NE – New		UA – Update of Application	WD – Withdrawal of Application
2) If this application is for an Update or Withdrawal, enter the file number of the pending application currently on file.			File Number:

## Applicant Information

3) FCC Registration Number (FRN):
4) Name: Towers of Mississippi II / State of Mississippi

## Contact Name

5) First Name: Taylor	6) MI:	7) Last Name: Robinson	8) Suffix:
9) Title:			

## Contact Information

10) P.O. Box:	And /Or	11) Street Address: 31560 Blakeley Way	
12) City: Spanish Fort		13) State: AL	14) Zip Code: 36527
15) Telephone Number: (205) 266-4466		16) Fax Number: ( )	
17) E-mail Address: trobinson@vulcancompany.com			

## Consultant Information

18) FCC Registration Number (FRN): 0019057413
19) Name: MRS Consultants, LLC.

## Principal Investigator

20) First Name: Beth	21) MI: A	22) Last Name: Ryba	23) Suffix:
24) Title: Cultural Resource Specialist			

## Principal Investigator Contact Information

25) P.O. Box: 3146	And /Or	26) Street Address:	
27) City: Tuscaloosa		28) State: AL	29) Zip Code: 35403
30) Telephone Number: (205) 759-1621		31) Fax Number: (205) 759-1621	
32) E-mail Address: earyba@earthlink.net			

**Professional Qualification**

33) Does the Principal Investigator satisfy the Secretary of the Interior's Professional Qualification Standards?	<input checked="" type="checkbox"/> <u>Yes</u> <input type="checkbox"/> <u>No</u>
34) Areas of Professional Qualification: <input checked="" type="checkbox"/> Archaeologist <input type="checkbox"/> Architectural Historian <input type="checkbox"/> Historian <input type="checkbox"/> Architect <input type="checkbox"/> Other (Specify) _____	

**Additional Staff**

35) Are there other staff involved who meet the Professional Qualification Standards of the Secretary of the Interior?	<input type="checkbox"/> <u>Yes</u> <input checked="" type="checkbox"/> <u>No</u>
--	---

If "Yes", complete the following:

36) First Name:	37) MI:	38) Last Name:	39) Suffix:
40) Title:			
41) Areas of Professional Qualification: <input type="checkbox"/> Archaeologist <input type="checkbox"/> Architectural Historian <input type="checkbox"/> Historian <input type="checkbox"/> Architect <input type="checkbox"/> Other (Specify) _____			

This page may be copied to include additional staff.  
Consultant Information Attachments required – See instructions for details.



**Determination of Effect**

14) Direct Effects (Select One):

- No Historic Properties in Area of Potential Effects (APE)
- No Effect on Historic Properties in APE
- No Adverse Effect on Historic Properties in APE
- Adverse Effect on one or more Historic Properties in APE

15) Visual Effects (Select One):

- No Historic Properties in Area of Potential Effects (APE)
- No Effect on Historic Properties in APE
- No Adverse Effect on Historic Properties in APE
- Adverse Effect on one or more Historic Properties in APE

**Determination of Effect Attachments required – See instructions for details.**

### Tribal/NHO Involvement

1) Have Indian Tribes or Native Hawaiian Organizations (NHOs) been identified that may attach religious and cultural significance to historic properties which may be affected by the undertaking within the APEs for direct and visual effects?		( <input checked="" type="checkbox"/> ) <u>Yes</u> ( <input type="checkbox"/> ) <u>No</u>
2a) Tribes/NHOs contacted through TCNS Notification Number: <u>76526</u>	Number of Tribes/NHOs: <u>5</u>	
2b) Tribes/NHOs contacted through an alternate system: None	Number of Tribes/NHOs: <u>None</u>	

### Tribe/NHO Contacted Through TCNS

3) Tribe/NHO FRN:
4) Tribe/NHO Name: Choctaw Nation of Oklahoma

### Contact Name

5) First Name: <u>Terry</u>	6) MI: <u>D</u>	7) Last Name: <u>Cole</u>	8) Suffix:
9) Title: <u>Director of Cultural Resources and THPO</u>			

### Dates & Response

10) Date Contacted <u>5 / 23 / 11</u>	11) Date Replied <u>    /    /    </u>
( <input checked="" type="checkbox"/> ) No Reply	
( <input type="checkbox"/> ) Replied/No Interest	
( <input type="checkbox"/> ) Replied/Have Interest	
( <input type="checkbox"/> ) Replied/Other _____	

This page may be copied to include additional Tribes/NHOs contacted.  
Tribal/NHO Involvement Attachments may be required – See instructions for details.

**Tribal/NHO Involvement**

1) Have Indian Tribes or Native Hawaiian Organizations (NHOs) been identified that may attach religious and cultural significance to historic properties which may be affected by the undertaking within the APEs for direct and visual effects?	( <input checked="" type="checkbox"/> ) <u>Yes</u> ( <input type="checkbox"/> ) <u>No</u>
2a) Tribes/NHOs contacted through TCNS Notification Number: <u>76526</u>	Number of Tribes/NHOs: <u>5</u>
2b) Tribes/NHOs contacted through an alternate system: None	Number of Tribes/NHOs: <u>None</u>

**Tribe/NHO Contacted Through TCNS**

3) Tribe/NHO FRN:
4) Tribe/NHO Name: Kialegee Tribal Town

**Contact Name**

5) First Name: Jennie	6) MI:	7) Last Name: Lillard	8) Suffix:
9) Title: MEKKO and Acting Tribal Administrator			

**Dates & Response**

10) Date Contacted <u>5</u> / <u>23</u> / <u>11</u>	11) Date Replied _____ / _____ / _____
( <input checked="" type="checkbox"/> ) No Reply	
( <input type="checkbox"/> ) Replied/No Interest	
( <input type="checkbox"/> ) Replied/Have Interest	
( <input type="checkbox"/> ) Replied/Other _____	

This page may be copied to include additional Tribes/NHOs contacted.  
Tribal/NHO Involvement Attachments may be required – See instructions for details.

### Tribal/NHO Involvement

1) Have Indian Tribes or Native Hawaiian Organizations (NHOs) been identified that may attach religious and cultural significance to historic properties which may be affected by the undertaking within the APEs for direct and visual effects?	( <input checked="" type="checkbox"/> ) Yes ( <input type="checkbox"/> ) No
2a) Tribes/NHOs contacted through TCNS Notification Number: <u>76526</u>	Number of Tribes/NHOs: <u>5</u>
2b) Tribes/NHOs contacted through an alternate system: None	Number of Tribes/NHOs: <u>None</u>

### Tribe/NHO Contacted Through TCNS

3) Tribe/NHO FRN:
4) Tribe/NHO Name: Mississippi Band of Choctaw Indians

### Contact Name

5) First Name: Kenneth	6) Mi: H	7) Last Name: Carleton	8) Suffix:
9) Title: THPO			

### Dates & Response

10) Date Contacted <u>5</u> / <u>23</u> / <u>11</u>	11) Date Replied _____ / _____ / _____
( <input checked="" type="checkbox"/> ) No Reply	
( <input type="checkbox"/> ) Replied/No Interest	
( <input type="checkbox"/> ) Replied/Have Interest	
( <input type="checkbox"/> ) Replied/Other _____	

This page may be copied to include additional Tribes/NHOs contacted.  
Tribal/NHO Involvement Attachments may be required – See instructions for details.

**Tribal/NHO Involvement**

1) Have Indian Tribes or Native Hawaiian Organizations (NHOs) been identified that may attach religious and cultural significance to historic properties which may be affected by the undertaking within the APEs for direct and visual effects?		<input checked="" type="checkbox"/> Yes ( ) No
2a) Tribes/NHOs contacted through TCNS Notification Number: <u>76526</u>	Number of Tribes/NHOs: <u>5</u>	
2b) Tribes/NHOs contacted through an alternate system: None	Number of Tribes/NHOs: <u>None</u>	

**Tribe/NHO Contacted Through TCNS**

3) Tribe/NHO FRN:
4) Tribe/NHO Name: Quapaw Tribe of Oklahoma

**Contact Name**

5) First Name: Wendy	6) MI: A	7) Last Name: Huntzinger	8) Suffix:
9) Title: Paralegal and Quapaw TCNS Representative			

**Dates & Response**

10) Date Contacted <u>5</u> / <u>23</u> / <u>11</u>	11) Date Replied <u>6</u> / <u>1</u> / <u>11</u>
<input type="checkbox"/> No Reply <input type="checkbox"/> Replied/No Interest <input checked="" type="checkbox"/> Replied/Have Interest <input type="checkbox"/> Replied/Other _____	

This page may be copied to include additional Tribes/NHOs contacted.  
 Tribal/NHO Involvement Attachments may be required – See instructions for details.

### Tribal/NHO Involvement

1) Have Indian Tribes or Native Hawaiian Organizations (NHOs) been identified that may attach religious and cultural significance to historic properties which may be affected by the undertaking within the APEs for direct and visual effects?	( <input checked="" type="checkbox"/> ) Yes ( <input type="checkbox"/> ) No
2a) Tribes/NHOs contacted through TCNS Notification Number: <u>76526</u>	Number of Tribes/NHOs: <u>5</u>
2b) Tribes/NHOs contacted through an alternate system: None	Number of Tribes/NHOs: <u>None</u>

### Tribe/NHO Contacted Through TCNS

3) Tribe/NHO FRN:
4) Tribe/NHO Name: Tunica-Biloxi Indians of Louisiana

### Contact Name

5) First Name: Earl	6) MI: J	7) Last Name: Barbry	8) Suffix: Jr.
9) Title: THPO			

### Dates & Response

10) Date Contacted <u>5</u> / <u>23</u> / <u>11</u>	11) Date Replied _____ / _____ / _____
( <input checked="" type="checkbox"/> ) No Reply	
( <input type="checkbox"/> ) Replied/No Interest	
( <input type="checkbox"/> ) Replied/Have Interest	
( <input type="checkbox"/> ) Replied/Other _____	

This page may be copied to include additional Tribes/NHOs contacted.  
Tribal/NHO Involvement Attachments may be required – See instructions for details.

### Other Tribes/NHOs Contacted

#### Tribe/NHO Information

1) FCC Registration Number (FRN):
2) Name: None

#### Contact Name

3) First Name:	4) MI:	5) Last Name:	6) Suffix:
7) Title:			

#### Contact Information

8) P.O. Box:	And /Or	9) Street Address:
10) City:	11) State:	12) Zip Code:
13) Telephone Number: ( )	14) Fax Number: ( )	
15) E-mail Address:		
16) Preferred means of communication: ( ) E-mail ( ) Letter ( ) Both		

#### Dates & Response

17) Date Contacted ____/____/____	18) Date Replied ____/____/____
( ) No Reply	
( ) Replied/No Interest	
( ) Replied/Have Interest	
( ) Replied/Other _____	

This page may be copied to include additional Tribes/NHOs.

## Historic Properties

### Properties Identified

1) Have any historic properties been identified within the APEs for direct and visual effect?	( <input type="checkbox"/> ) <u>Y</u> es ( <input checked="" type="checkbox"/> ) <u>N</u> o
2) Has the identification process located archaeological materials that would be directly affected, or sites that are of cultural or religious significance to Tribes/NHOs?	( <input type="checkbox"/> ) <u>Y</u> es ( <input checked="" type="checkbox"/> ) <u>N</u> o
3) Are there more than 10 historic properties within the APEs for direct and visual effect? If "Yes", you are required to attach a Cultural Resources Report in lieu of adding the Historic Property below.	( <input type="checkbox"/> ) <u>Y</u> es ( <input checked="" type="checkbox"/> ) <u>N</u> o

### Historic Property

4) Property Name: See Attached Cultural Resources Report by MRS Consultants, LLC
5) SHPO Site Number:

### Property Address

6) Street Address:		
7) City:	8) State:	9) Zip Code:
10) County/Borough/Parish:		

### Status & Eligibility

11) Is this property listed on the National Register?  Source: _____	( <input type="checkbox"/> ) <u>Y</u> es ( <input type="checkbox"/> ) <u>N</u> o
12) Is this property eligible for listing on the National Register?  Source: _____	( <input type="checkbox"/> ) <u>Y</u> es ( <input type="checkbox"/> ) <u>N</u> o
13) Is this property a National Historic Landmark?	( <input type="checkbox"/> ) <u>Y</u> es ( <input type="checkbox"/> ) <u>N</u> o

14) Direct Effects (Select One): <input type="checkbox"/> No Effect on this Historic Property in APE <input type="checkbox"/> No Adverse Effect on this Historic Property in APE <input type="checkbox"/> Adverse Effect on this Historic Property in APE
15) Visual Effects (Select One): <input type="checkbox"/> No Effect on this Historic Property in APE <input type="checkbox"/> No Adverse Effect on this Historic Property in APE <input type="checkbox"/> Adverse Effect on this Historic Property in APE

**This page may be copied to include additional Historic Properties.  
Historic Property Attachments required – See instructions for details.**

### Local Government Involvement

#### Local Government Agency

1) FCC Registration Number (FRN):
2) Name: Bolívar County

#### Contact Name

3) First Name: Will	4) Mi:	5) Last Name: Hooker	6) Suffix:
7) Title: County Administrator			

#### Contact Information

8) P.O. Box: 698	And /Or	9) Street Address:	
10) City: Cleveland		11) State: MS	12) Zip Code: 38732
13) Telephone Number: ( )		14) Fax Number: ( )	
15) E-mail Address:			
16) Preferred means of communication: ( ) E-mail ( <input checked="" type="checkbox"/> ) Letter ( ) Both			

#### Dates & Response

17) Date Contacted 5 / 25 / 11	18) Date Replied ____ / ____ / ____
( <input checked="" type="checkbox"/> ) No Reply	
( ) Replied/No Interest	
( ) Replied/Have Interest	
( ) Replied/Other _____	

#### Additional Information

19) Information on local government's role or interest (optional):
--

This page may be copied to include additional local government agencies.  
Local Government Attachments required – See instructions for details.

### Other Consulting Parties

#### Other Consulting Parties Contacted

1) Has any other agency been contacted and invited to become a consulting party?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
--	---

#### Consulting Party

2) FCC Registration Number (FRN):
3) Name: Bolivar County Historical Society

#### Contact Name

4) First Name:	5) MI:	6) Last Name:	7) Suffix:
8) Title:			

#### Contact Information

9) P.O. Box:	And /Or	10) Street Address: 1615 Terrace Road	
11) City: Cleveland		12) State: MS	13) Zip Code: 38732
14) Telephone Number: ( )		15) Fax Number: ( )	
16) E-mail Address:			
17) Preferred means of communication:			
<input type="checkbox"/> E-mail			
<input checked="" type="checkbox"/> Letter			
<input type="checkbox"/> Both			

#### Dates & Response

18) Date Contacted 5 / 25 / 11	19) Date Replied ____ / ____ / ____
<input checked="" type="checkbox"/> No Reply	
<input type="checkbox"/> Replied/No Interest	
<input type="checkbox"/> Replied/Have Interest	
<input type="checkbox"/> Replied/Other _____	

#### Additional Information

20) Information on other consulting parties' role or interest (optional):
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This page may be copied to include additional consulting parties.  
Consulting Parties Attachments required – See instructions for details.

### Designation of SHPO/THPO

1) Designate the Lead State Historic Preservation Officer (SHPO) or Tribal Historic Preservation Officer (THPO) based on the location of the tower.

#### SHPO/THPO

Name: Mr. H.T. Holmes, Mississippi Department of Archives and History

2) You may also designate up to three additional SHPOs/THPOs if the APEs include multiple states. If the APEs include other countries, enter the name of the National Historic Preservation Agency and any state and provincial Historic Preservation Agency.

SHPO/THPO Name: \_\_\_\_\_

SHPO/THPO Name: \_\_\_\_\_

SHPO/THPO Name: \_\_\_\_\_

**Designation of SHPO/THPO Attachments may be required – See instructions for details.**

### Certification

I certify that all representations on this FCC Form 620 Submission Packet and the accompanying attachments are true, correct, and complete.

**Party Authorized to Sign** MRS Consultants, LLC. Principal investigator

First Name: Beth

MI: A

Last Name: Ryba

Suffix: \_\_\_\_\_

Signature: 

Date: 05 / 23 / 11

**FAILURE TO SIGN THIS APPLICATION MAY RESULT IN DISMISSAL OF THE APPLICATION AND FORFEITURE OF ANY FEES PAID.**

**WILLFUL FALSE STATEMENTS MADE ON THIS FORM OR ANY ATTACHMENTS ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. Code, Title 18, Section 1001) AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. Code, Title 47, Section 312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, Section 503).**

ATTACHMENT I  
Vitae are On File

ATTACHMENT 2  
ATTACHMENT 7  
ATTACHMENT 8  
ATTACHMENT 9  
ATTACHMENT 10  
ATTACHMENT 11  
ATTACHMENT 12

See Accompanying Cultural Resource Report

### **Attachment 3. Tribal and NHO Involvement**

Initial notification to Native American tribes/organizations was submitted through the FCC Tower Construction Notification System (TCNS). See the attached TCNS list for details.

### **Attachment 4. Local Government**

Correspondence was submitted to the local government agency with jurisdiction over the project area for comment regarding potential impacts to historical or cultural sites by the proposed action. See the attached correspondence for more information.

### **Attachment 5. Public Involvement**

A notice requesting comment regarding potential impacts to historical or archaeological properties by the proposed action was published. Please see the attached information for details regarding the public notice.

### **Attachment 6. Additional Consulting Parties (Where Applicable)**

Correspondence was submitted to additional consulting parties for comment regarding potential impacts to historical or cultural sites by the proposed action. See the attached correspondence for more information. (Please note that no correspondence is included where additional consulting parties were not identified for a project.)

## Henry Fisher

---

**From:** towernotifyinfo@fcc.gov  
**Sent:** Monday, May 16, 2011 12:25 PM  
**To:** towerinfo@envciv.com  
**Subject:** Proposed Tower Structure Info - Email ID #2800841

Dear Henry A Fisher,

Thank you for submitting a notification regarding your proposed construction via the Tower Construction Notification System. Note that the system has assigned a unique Notification ID number for this proposed construction. You will need to reference this Notification ID number when you update your project's Status with us.

Below are the details you provided for the construction you have proposed:

Notification Received: 05/16/2011

Notification ID: 76526

Tower Owner Individual or Entity Name: Towers of Mississippi/State of Mississippi

Consultant Name: Henry A Fisher

Street Address: 11578 U.S. Highway 411

City: Odenville

State: ALABAMA

Zip Code: 35120

Phone: 205-629-3868

Email: [towerinfo@envciv.com](mailto:towerinfo@envciv.com)

Structure Type: UTOWER - Unguyed - Free Standing Tower

Latitude: 33 deg 37 min 7.3 sec N

Longitude: 90 deg 52 min 0.2 sec W

Location Description: Off of Bitter Creed Road

City: Shaw

State: MISSISSIPPI

County: BOLIVAR

Ground Elevation: 39.4 meters

Support Structure: 137.2 meters above ground level

Overall Structure: 137.2 meters above ground level

Overall Height AMSL: 176.6 meters above mean sea level

76526 TOM

Henry Fisher

---

**From:** towernotifyinfo@fcc.gov  
**Sent:** Friday, May 20, 2011 2:01 AM  
**To:** towerinfo@envciv.com  
**Cc:** kim.pristello@fcc.gov; diane.dupert@fcc.gov  
**Subject:** NOTICE OF ORGANIZATION(S) WHICH WERE SENT PROPOSED TOWER CONSTRUCTION NOTIFICATION INFORMATION - Email ID #2803008

Dear Sir or Madam:

Thank you for using the Federal Communications Commission's (FCC) Tower Construction Notification System (TCNS). The purpose of this electronic mail message is to inform you that the following authorized persons were sent the information you provided through TCNS, which relates to your proposed antenna structure. The information was forwarded by the FCC to authorized TCNS users by electronic mail and/or regular mail (letter).

Persons who have received the information that you provided include leaders or their designees of federally-recognized American Indian Tribes, including Alaska Native Villages (collectively "Tribes"), Native Hawaiian Organizations (NHOs), and State Historic Preservation Officers (SHPOs). For your convenience in identifying the referenced Tribes and in making further contacts, the City and State of the Seat of Government for each Tribe and NHO, as well as the designated contact person, is included in the listing below. We note that Tribes may have Section 106 cultural interests in ancestral homelands or other locations that are far removed from their current Seat of Government. Pursuant to the Commission's rules as set forth in the Nationwide Programmatic Agreement for Review of Effects on Historic Properties for Certain Undertakings Approved by the Federal Communications Commission (NPA), all Tribes and NHOs listed below must be afforded a reasonable opportunity to respond to this notification, consistent with the procedures set forth below, unless the proposed construction falls within an exclusion designated by the Tribe or NHO. (NPA, Section IV.F.4).

The information you provided was forwarded to the following Tribes and NHOs who have set their geographic preferences on TCNS. If the information you provided relates to a proposed antenna structure in the State of Alaska, the following list also includes Tribes located in the State of Alaska that have not specified their geographic preferences. For these Tribes and NHOs, if the Tribe or NHO does not respond within a reasonable time, you should make a reasonable effort at follow-up contact, unless the Tribe or NHO has agreed to different procedures (NPA, Section IV.F.5). In the event such a Tribe or NHO does not respond to a follow-up inquiry, or if a substantive or procedural disagreement arises between you and a Tribe or NHO, you must seek guidance from the Commission (NPA, Section IV.G). These procedures are further set forth in the FCC's Declaratory Ruling released on October 6, 2005 (FCC 05-176).

1. THPO Kenneth H Carleton - Mississippi Band of Choctaw Indians - Choctaw, MS - electronic mail

Details: Please send all information via e-mail (and only via e-mail - no paper copies please) to: choctawhp@gmail.com (9 meg attachment limit)

The Mississippi Band of Choctaw Indians wishes to see full information packets for all towers within the designated areas for consultation.

Form 620, if it includes the a full text of the cultural resource survey with maps, is adequate for our needs. If your 620 does not include the text of the cultural resource survey, then attach it seperately.

Please include the tower identification (TCNS#, name, and any other information that may help us identify this site) and the county and state where the facility is proposed in the subject line.

If the applicant/tower builder receives no response from the Mississippi Band of Choctaw Indians within 30 days AFTER YOU HAVE E-MAILED THE AFOREMENTIONED INFORMATION TO US (begin counting the 30 day period AFTER the e-mail with all of the information has been sent), then the Mississippi Band of Choctaw Indians has no interest in participating in pre-construction review for the proposed site. The Applicant/tower builder, however, must immediately notify the Mississippi Band of Choctaw Indians in the event archaeological properties or human remains are discovered during construction, consistent with Section IX of the Nationwide Programmatic Agreement and applicable law.

2. Paralegal & Quapaw TCNS Representative Wendy A Huntzinger - Quapaw Tribe of Oklahoma c/o Conner & Winters - Tulsa, OK - electronic mail

3. Director of Historic Preservation / THPO Terry D Cole - Choctaw Nation of Oklahoma - Durant, OK - electronic mail and regular mail

Details: The Applicant may conclude that the Choctaw Nation of Oklahoma has no interest in a site if there is existing disturbance wherein the depth of the previous disturbance exceeds the proposed construction depth (excluding footing and other anchoring mechanisms) by at least 2 feet (Applying VI - D(2)(c)(i) of the Nationwide Programmatic Agreement concerning Field Surveys; 'In the Matter of Nationwide Programmatic Agreement Regarding the Section 106 National Historic Preservation Act Review Process,' Report and Order, 20 FCC Rcd. 1073, WT Docket No. 03-128, October 5, 2004).

Furthermore, the Choctaw Nation of Oklahoma does not have an interest in a Tower that will be constructed on an existing structure, developed land, or within city limits. However, any of the above mentioned criteria should be communicated to us if not evident in the initial Notification Details. For all other towers, we request a signed field survey report that meets the Federal guidelines set forth by the Department of the Interior and a site location map along with pictures for each project.

Additionally, the Choctaw Nation of Oklahoma has informed FCC Staff that if the Applicant does not receive a response from the Tribe within 30 days of a TCNS notification, then the Applicant SHOULD MAKE A GOOD FAITH EFFORT WITH A FOLLOW-UP PHONE CALL to make sure that the tribe is aware of the proposed tower project. However, should construction expose buried archaeological or building materials such as chipped stone, tools, pottery, bone, historical crockery, glass or metal items, this office should be contacted immediately @ 1-800-522-6170 ext. 2137. [n.b. Please reference the TCNS number in all communications that follow the initial notification.]

4. MEKKO and Acting Tribal Administrator Jennie Lillard - Kialegee Tribal Town - Wetumka, OK - regular mail

Details: If the Applicant receives no response from the Kialegee Tribal Town within 30 days after notification through TCNS, the Kialegee Tribal Town has no interest in participating in pre-construction review for the site. The Applicant, however, must immediately notify the Kialegee Tribal Town in the event archaeological properties or human remains are discovered during construction.

5. THPO Earl J Barbry Jr - Tunica-Biloxi Indians of Louisiana - Marksville, LA - regular mail

The information you provided was also forwarded to the additional Tribes and NHOs listed below. These Tribes and NHOs have NOT set their geographic preferences on TCNS, and therefore they are currently receiving tower notifications for the entire United States. For these Tribes and NHOs, you are required to use reasonable and good faith efforts to determine if the Tribe or NHO may attach religious and cultural significance to historic properties that may be affected by its proposed undertaking. Such efforts may include, but are not limited to, seeking information from the relevant SHPO or THPO, Indian Tribes, state agencies, the U.S. Bureau of Indian Affairs, or, where applicable, any federal agency with land holdings within the state (NPA, Section IV.B). If after such reasonable and good faith efforts, you determine that a Tribe or NHO may attach religious and cultural significance to historic properties in the area and the Tribe or NHO does not respond to TCNS notification within a reasonable time, you should make a reasonable effort to follow up, and must seek guidance from the Commission in the event of continued non-response or in the event of a procedural or substantive disagreement. If you determine that the Tribe or NHO is unlikely to attach religious and cultural significance to historic properties within the area, you do not need to take further action unless the Tribe or NHO indicates an interest in the proposed construction or other evidence of potential interest comes to your attention.

None

The information you provided was also forwarded to the following SHPOs in the State in which you propose to construct and neighboring States. The information was provided to these SHPOs as a courtesy for their information and planning. You need make no effort at this time to follow up with any SHPO that does not respond to this notification. Prior to construction, you must provide the SHPO of the State in which you propose to construct (or the Tribal Historic Preservation Officer, if the project will be located on certain Tribal lands), with a Submission Packet pursuant to Section VII.A of the NPA.

6. SHPO Lee Warner - Alabama Historical Commission - Montgomery, AL - electronic mail

7. Deputy SHPO Elizabeth Ann Brown - Alabama Historical Commission - Montgomery, AL - electronic mail

8. SHPO Cathie Matthews - Department of Arkansas Heritage - Little Rock, AR - electronic mail

9. Deputy SHPO Ken Grunewald - Department of Arkansas Heritage - Little Rock, AR - electronic mail

10. SHPO Elbert Hilliard - Mississippi Dept of Archives & History - Jackson, MS - regular mail

11. Deputy SHPO Kenneth H P'Pool - Division of Historic Preservation - Jackson, MS -  
electronic mail

If you are proposing to construct a facility in the State of Alaska, you should contact Commission staff for guidance regarding your obligations in the event that Tribes do not respond to this notification within a reasonable time.

Please be advised that the FCC cannot guarantee that the contact(s) listed above opened and reviewed an electronic or regular mail notification. The following information relating to the proposed tower was forwarded to the person(s) listed above:

Notification Received: 05/16/2011  
Notification ID: 76526  
Tower Owner Individual or Entity Name: Towers of Mississippi/State of Mississippi  
Consultant Name: Henry A Fisher  
Street Address: 11578 U.S. Highway 411  
City: Odenville  
State: ALABAMA  
Zip Code: 35120  
Phone: 205-629-3868  
Email: towerinfo@envciv.com

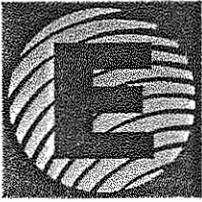
Structure Type: UTOWER - Unguyed - Free Standing Tower  
Latitude: 33 deg 37 min 7.3 sec N  
Longitude: 90 deg 52 min 0.2 sec W  
Location Description: Off of Bitter Creed Road  
City: Shaw  
State: MISSISSIPPI  
County: BOLIVAR  
Ground Elevation: 39.4 meters  
Support Structure: 137.2 meters above ground level  
Overall Structure: 137.2 meters above ground level  
Overall Height AMSL: 176.6 meters above mean sea level

If you have any questions or comments regarding this notice, please contact the FCC using the electronic mail form located on the FCC's website at:

<http://wireless.fcc.gov/outreach/notification/contact-fcc.html>.

You may also call the FCC Support Center at (877) 480-3201 (TTY 717-338-2824). Hours are from 8 a.m. to 7:00 p.m. Eastern Time, Monday through Friday (except Federal holidays). To provide quality service and ensure security, all telephone calls are recorded.

Thank you,  
Federal Communications Commission



**ENVIRONMENTAL ENGINEERS, INC.**  
11578 US Highway 411, Odenville, Alabama 35120  
*Environmental, Remediation, and Geological Consultants*

May 25, 2011

Mr. Will Hooker, County Administrator  
Bolivar County  
P.O. Box 698  
Cleveland, MS 38732

Subject:  
**MSWIN 30213 B Shaw Communications Facility**  
**Shaw, Bolivar County, Mississippi**  
Environmental Engineers, Inc. Project No.: JSE01P1116

Dear Mr. Hooker:

Pursuant to the requirements of the March 2005 Nationwide Programmatic Agreement for Review of Effects on Historic Properties for Certain Undertakings Approved by the Federal Communications Commission (NPA) and Section 106 of the National Historic Preservation Act (NHPA) we are requesting comment on behalf of Towers of Mississippi, the State of Mississippi, and the Federal Emergency Management Agency regarding impact to historical or cultural sites listed on, or eligible for listing on the National Register of Historic Places (NRHP) by construction of a wireless communications tower in Bolivar County, Mississippi.

The site is depicted on the United States Geological Survey 7.5-minute Topographic Quadrangle "Shaw, Mississippi," dated 1967. The site is located in the southwest  $\frac{1}{4}$  or the southwest  $\frac{1}{4}$  of Section 31, Township 21 North, Range 6 West, Bolivar County, Mississippi, at latitude  $33^{\circ} 37' 7.391''$  north and longitude  $90^{\circ} 52' 0.239''$  west (Figure 1). The site consists of a proposed 100-foot by 100-foot lease area and proposed access road located off of Bitter Creek Road near Shaw, Mississippi. The site consists of a level agricultural field. The access road follows an existing farm road eastward then turns south to the site center. Proposed activities consist of construction of a 450-foot self-supporting communications tower with associated equipment compound, enclosing the compound in a fence, placement of support equipment within the compound, and covering the compound with gravel. I have included the portion of the USGS topographic map depicting the proposed site location for your review.

Environmental Engineers, Inc. appreciates the opportunity to provide this information. Please reference the Environmental Engineers, Inc. project number (JSE01P1116) in correspondence regarding this site. Please provide comment within thirty days of the date of this letter. Thank you for your time and assistance and we look forward to your response. Please call me at (205) 629-3868 or email me at [dcarroll@envciv.com](mailto:dcarroll@envciv.com) if you have any questions or comments. You can also send a response to us via facsimile at (877) 847-3060.

Sincerely,  
ENVIRONMENTAL ENGINEERS, INC.

David Carroll  
Staff Geologist

Attachments: Site Location Map

**Phone: (205) 629-3868 • Fax: (877) 847-3060**

7010 0290 0003 5723 8023

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Restricted Delivery Fee (Endorsement Required)		
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Sent to: Mr. Will Hooker, County Administrator  
 Street, Apt. No., or PO Box No.  
 City, State, ZIP+4

PS Form 3800, August 2008 See Reverse for Instructions

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:  
 Mr. Will Hooker, County Admin.  
 Bolivar County  
 P.O. Box 698  
 Cleveland, MS 38932

2. Article Number  
 (Transfer from service label)

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  
 X *Deja Carter*  Agent  Addressee

B. Received by (Printed Name) C. Date of Delivery

D. Is delivery address different from item 1?  Yes  No  
 If YES, enter delivery address below:

3. Service Type  
 Certified Mail  Express Mail  
 Registered  Return Receipt for Merchandise  
 Insured Mail  C.O.D.

4. Restricted Delivery? (Extra Fee)  Yes

7010 0290 0003 5723 8023



## ENVIRONMENTAL ENGINEERS, INC.

11578 US Highway 411, Odenville, Alabama 35120  
*Environmental, Remediation, and Geological Consultants*

May 25, 2011

Bolivar County Historical Society  
1615 Terrace Road  
Cleveland, MS 38732

Subject:  
**MSWIN 30213 B Shaw Communications Facility**  
**Shaw, Bolivar County, Mississippi**  
Environmental Engineers, Inc. Project No.: JSE01P1116

To Whom It May Concern:

Pursuant to the requirements of the March 2005 Nationwide Programmatic Agreement for Review of Effects on Historic Properties for Certain Undertakings Approved by the Federal Communications Commission (NPA) and Section 106 of the National Historic Preservation Act (NHPA) we are requesting comment on behalf of Towers of Mississippi, the State of Mississippi, and the Federal Emergency Management Agency regarding impact to historical or cultural sites listed on, or eligible for listing on the National Register of Historic Places (NRHP) by construction of a wireless communications tower in Bolivar County, Mississippi.

The site is depicted on the United States Geological Survey 7.5-minute Topographic Quadrangle "Shaw, Mississippi," dated 1967. The site is located in the southwest ¼ or the southwest ¼ of Section 31, Township 21 North, Range 6 West, Bolivar County, Mississippi, at latitude 33° 37' 7.391" north and longitude 90° 52' 0.239" west (Figure 1). The site consists of a proposed 100-foot by 100-foot lease area and proposed access road located off of Bitter Creek Road near Shaw, Mississippi. The site consists of a level agricultural field. The access road follows an existing farm road eastward then turns south to the site center. Proposed activities consist of construction of a 450-foot self-supporting communications tower with associated equipment compound, enclosing the compound in a fence, placement of support equipment within the compound, and covering the compound with gravel. I have included the portion of the USGS topographic map depicting the proposed site location for your review.

Environmental Engineers, Inc. appreciates the opportunity to provide this information. Please reference the Environmental Engineers, Inc. project number (JSE01P1116) in correspondence regarding this site. Please provide comment within thirty days of the date of this letter. Thank you for your time and assistance and we look forward to your response. Please call me at (205) 629-3868 or email me at [dcarroll@envciv.com](mailto:dcarroll@envciv.com) if you have any questions or comments. You can also send a response to us via facsimile at (877) 847-3060.

Sincerely,  
ENVIRONMENTAL ENGINEERS, INC.

David Carroll  
Staff Geologist

Attachments: Site Location Map

**Phone: (205) 629-3868 • Fax: (877) 847-3060**

MAY 21 2011

RECEIVED

**NOTICE**  
 Towers of Mississippi, the State of Mississippi, and the Federal Emergency Management Agency (FEMA) are requesting comment regarding construction of a 450-foot self supporting communications tower to be located off of Bitter Creek Road, Shaw, Bolivar County, Mississippi, 38773 at latitude 33° 27' 07.591" north and longitude 90° 52' 0.239" west. We are also requesting comment in accordance with Section 106 of the National Historic Preservation Act (NHPA), regarding potential impacts to historical or archaeological properties listed on, or eligible for listing on the National Register of Historic Places (NRHP), by the proposed communications tower.

All comments should be submitted within 30 days of the publication of this notice, referencing project #SE01P116 and sent to the attention of Mr. Henry Fisher, Environmental Engineers, Inc., 11578 U.S. Highway 411, Odenville, AL 35120. Mr. Fisher may also be reached via email at [hfisher@envco.com](mailto:hfisher@envco.com), via telephone at (205) 629-3868, or via facsimile at (877) 847-3060.  
 May 15, 2011C

**PROOF OF PUBLICATION**

**STATE OF MISSISSIPPI,  
COUNTY OF BOLIVAR.**

Personally appeared before me, the undersigned authority in and for the County of Bolivar, State of Mississippi, MARK S. WILLIAMS, Publisher of THE BOLIVAR COMMERCIAL, daily newspaper and published in the City of Cleveland, in said County and State who, on oath, deposes and says that The Bolivar Commercial is a newspaper as defined and prescribed in Senate Bill No. 203 enacted at the regular session of the Mississippi Legislature of 1948, amending Section 1958 of the Miss. Code of 1942, and that the publication of which the instrument annexed is a true copy, was published in said paper, to wit:

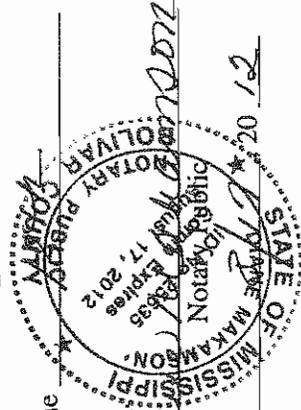
- In Volume 95 No. 99 Dated May 18 20 11
- In Volume \_\_\_ No. \_\_\_ Dated \_\_\_ 20 \_\_\_
- In Volume \_\_\_ No. \_\_\_ Dated \_\_\_ 20 \_\_\_
- In Volume \_\_\_ No. \_\_\_ Dated \_\_\_ 20 \_\_\_
- In Volume \_\_\_ No. \_\_\_ Dated \_\_\_ 20 \_\_\_
- In Volume \_\_\_ No. \_\_\_ Dated \_\_\_ 20 \_\_\_

and that said newspaper "has been established for at least twelve months next prior to the first publication" of this notice.

*Mark S. Williams* Publisher

Sworn to and subscribed before me this the

day of May, 20 11



My Commission expires May 17 20 12

Publishers's Fee \$ \_\_\_\_\_

# Appendix I



**ENVIRONMENTAL ENGINEERS, INC.**

**11578 US Highway 411, Odenville, Alabama 35120**

*Environmental, Remediation, and Geological Consultants*

June 8, 2011

Mr. Greg Williamson  
Mississippi Department of Archives and History  
Charlotte Capers Archives and History Building  
100 South State St.  
Jackson, MS 39201

Subject:  
**Section 106 Review**  
**MSWIN 30213 B Shaw Communications Facility**  
**Shaw, Bolivar County, Mississippi**  
Environmental Engineers, Inc. Project No.: JSE01P1116

Dear Mr. Williamson:

Environmental Engineers, Inc. is requesting a Section 106 review, on behalf of Towers of Mississippi, the State of Mississippi, and the Federal Emergency Management Agency (FEMA) for the above referenced site. Enclosed you will find a copy of the completed FCC Form 620 for the project site, including all attachments.

Environmental Engineers, Inc. appreciates the opportunity to provide this information. Please reference the Environmental Engineers, Inc. project number (JSE01P1116) in correspondence regarding this site. If you have any questions or need additional information, please contact me at (205) 629-3868.

Sincerely,

ENVIRONMENTAL ENGINEERS, INC.

Henry A. Fisher, P.E.  
Principal Engineer

Enc. FCC Form 620

**Phone: (205) 629-3868 • Fax: (877) 847-3060**

From: (205) 629-3868  
HENRY FISHER  
ENVIRONMENTAL ENGINEERS, INC  
11578 U.S. Highway 411

Origin ID: CZCA



J11151102250225

Odenville, AL 35120

Ship Date: 08JUN11  
Act/Wgt: 1.0 LB  
CAD: 4760346/INET3130

Delivery Address Bar Code



SHIP TO: (601) 359-6940

BILL SENDER

**Mr. Greg Williamson**  
**MS Dept of Archives & History**  
**100 S STATE ST**

JACKSON, MS 39201

Ref # JSE01P1115 & JSE01P1116  
Invoice #  
PO #  
Dept #

THU - 09 JUN A2  
STANDARD OVERNIGHT

TRK# 7971 8506 7644

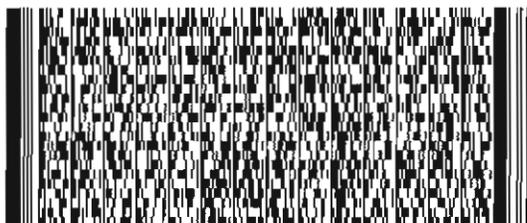
0201

39201

MS-US

MEM

XX JANA



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**Cheryl Johnson**

**From:** TrackingUpdates@fedex.com  
**Sent:** Thursday, June 09, 2011 8:53 AM  
**To:** cjohnson@envciv.com  
**Subject:** FedEx Shipment 797185067644 Delivered

---

This tracking update has been requested by:

Company Name: ENVIRONMENTAL ENGINEERS, INC  
Name: HENRY FISHER  
E-mail: cjohnson@envciv.com

---

Our records indicate that the following shipment has been delivered:

Reference: JSE01P1115 & JSE01P1116  
Ship (P/U) date: Jun 8, 2011  
Delivery date: Jun 9, 2011 8:47 AM  
Sign for by: J.BAUGH  
Delivery location: RICHLAND, MS  
Delivered to: Receptionist/Front Desk  
Service type: FedEx Standard Overnight  
Packaging type: FedEx Pak  
Number of pieces: 1  
Weight: 1.00 lb.  
Special handling/Services: Deliver Weekday

Tracking number: 797185067644

Shipper Information	Recipient Information
HENRY FISHER	Mr. Greg Williamson
ENVIRONMENTAL ENGINEERS, INC	MS Dept of Archives & History
11578 U.S. Highway 411	100 S STATE ST
Odenville	JACKSON
AL	MS
US	US
35120	39201

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Thank you for your business.

6/9/2011



PO Box 571, Jackson, MS 39205-0571  
601-576-6850 • Fax 601-576-6975  
mdah.state.ms.us  
*H.T. Holmes, Director*

June 16, 2011

Henry A. Fisher, P.E.  
Environmental Engineers, Inc.  
11578 US Highway 411  
Odenville, Alabama 35120

Environmental Engineers Inc.

JUN 18 2011

RECEIVED

RE: Proposed MSWIN 30213 B Shaw Communications Facility in Shaw, MS, (EE Project No. JSE01P1116), MDAH Project Log #06-063-11, (Report #11-0313), Bolivar County

Dear Henry:

We have reviewed your June 8, 2011, cultural resources assessment request and May 23, 2011, cultural resources survey report by Beth Ryba, Principal Investigator, received on June 9, 2011, for the above referenced undertaking, pursuant to our responsibilities under Section 106 of the National Historic Preservation Act and 36 CFR Part 800. After reviewing the information provided, we concur that no archaeological resources listed in or eligible for listing in the National Register of Historic Places will be directly or visually affected. We also concur that no architectural resources listed in or eligible for listing in the National Register of Historic Places will be directly or visually affected. As such, we have no reservations with the project.

Please provide a copy of this letter to Ms. Ryba. If you need further information, please let me know.

Sincerely,

A handwritten signature in blue ink, appearing to read "Greg", is written over a light blue rectangular stamp.

Greg Williamson  
Review and Compliance Officer

FOR: H.T. Holmes  
State Historic Preservation Officer

# Appendix J

## Henry Fisher

---

**From:** Henry Fisher <hfisher@envciv.com>  
**Sent:** Wednesday, June 08, 2011 10:18 AM  
**To:** Caren Johnson (cjohnson@choctawnation.com)  
**Subject:** MSWIN 30213 B Shaw Communications Facility TCNS 76526  
**Attachments:** FCC Form 620 MSWIN 30213 Shaw TCNS 76526.pdf

Mr. Terry Cole  
Choctaw Nation of Oklahoma

Subject:  
**TCNS 76526**  
**MSWIN 30213 B Shaw Communications Facility**  
**Shaw, Bolivar County, Mississippi**  
**Environmental Engineers, Inc. Project No.: JSE01P1116**

Dear Mr. Cole:

I am requesting comment on behalf of Towers of Mississippi II, the State of Mississippi, and the Federal Emergency Management Agency (FEMA) regarding potential impacts to Native American religious or cultural sites by construction of a wireless communications tower in Bolivar County, Mississippi. This project was also submitted through the FCC TCNS on May 16, 2011 (TCNS ID # 76526).

The site is depicted on the United States Geological Survey 7.5-minute Topographic Quadrangle "Shaw, Mississippi," dated 1967. The site is located in the southwest ¼ or the southwest ¼ of Section 31, Township 21 North, Range 6 West, Bolivar County, Mississippi, at latitude 33° 37' 7.391" north and longitude 90° 52' 0.239" west. The site consists of a proposed 100-foot by 100-foot lease area and proposed access road located off of Bitter Creek Road near Shaw, Mississippi. The site consists of a level agricultural field. The access road follows an existing farm road eastward then turns south to the site center. Proposed activities consist of construction of a 450-foot self-supporting communications tower with associated equipment compound, enclosing the compound in a fence, placement of support equipment within the compound, and covering the compound with gravel. I have attached the FCC Form 620 prepared for this project.

Environmental Engineers, Inc. appreciates the opportunity to provide this information. Please reference the Environmental Engineers, Inc. project number (JSE01P1116) in correspondence regarding this site. Thank you for your time and assistance and I look forward to your response. Please call us at (205) 629-3868 or email me at [hfisher@envciv.com](mailto:hfisher@envciv.com) if you have any questions or comments. You can also send a response to us via facsimile at (877) 847-3060.

Sincerely,

Henry A. Fisher  
Environmental Engineers, Inc.  
11578 US Highway 411  
Odenville, Alabama 35120  
Tel (205) 629-3868  
Fax (877) 847-3060

## Henry Fisher

---

**From:** towernotifyinfo@fcc.gov  
**Sent:** Friday, July 08, 2011 2:03 PM  
**To:** towerinfo@envciv.com  
**Cc:** tcns.fccarchive@fcc.gov; cjohnson@choctawnation.com  
**Subject:** Reply to Proposed Tower Structure (Notification ID: 76526) - Email ID #2838160

Dear Henry A Fisher,

Thank you for using the Federal Communications Commission's (FCC) Tower Construction Notification System (TCNS). The purpose of this email is to inform you that an authorized user of the TCNS has replied to a proposed tower construction notification that you had submitted through the TCNS.

The following message has been sent to you from Director of Historic Preservation / THPO Terry D Cole of the Choctaw Nation of Oklahoma in reference to Notification ID #76526:

The Choctaw Nation of Oklahoma has reviewed this cell tower and to the best of our knowledge it will have no adverse effect on any historic properties in the project's area of potential effect. However, should construction expose buried archaeological or building materials such as chipped stone, tools, pottery, bone, historic crockery, glass or metal items, or should it uncover evidence of buried historic building materials such as rock foundations, brick, or hand poured concrete, this office should be contacted immediately @ 1-800-522-6170 ext. 2137.

For your convenience, the information you submitted for this notification is detailed below.

Notification Received: 05/16/2011  
Notification ID: 76526  
Tower Owner Individual or Entity Name: Towers of Mississippi/State of Mississippi  
Consultant Name: Henry A Fisher  
Street Address: 11578 U.S. Highway 411  
City: Odenville  
State: ALABAMA  
Zip Code: 35120  
Phone: 205-629-3868  
Email: [towerinfo@envciv.com](mailto:towerinfo@envciv.com)

Structure Type: UTOWER - Unguyed - Free Standing Tower  
Latitude: 33 deg 37 min 7.3 sec N  
Longitude: 90 deg 52 min 0.2 sec W  
Location Description: Off of Bitter Creed Road  
City: Shaw  
State: MISSISSIPPI  
County: BOLIVAR  
Ground Elevation: 39.4 meters  
Support Structure: 137.2 meters above ground level  
Overall Structure: 137.2 meters above ground level  
Overall Height AMSL: 176.6 meters above mean sea level

## Henry Fisher

---

**From:** Henry Fisher <hfisher@envciv.com>  
**Sent:** Wednesday, June 08, 2011 10:21 AM  
**To:** 'choctawhp@gmail.com' (choctawhp@gmail.com); 'Carleton, Ken' (KCarleton@choctaw.org)  
**Subject:** MSWIN 30213 B Shaw Communications Facility TCNS 76526  
**Attachments:** FCC Form 620 MSWIN 30213 Shaw TCNS 76526.pdf

Mr. Ken Carleton  
Mississippi Band of Choctaw Indians

Subject:  
**TCNS 76526**  
**MSWIN 30213 B Shaw Communications Facility**  
**Shaw, Bolivar County, Mississippi**  
**Environmental Engineers, Inc. Project No.: JSE01P1116**

Dear Mr. Carleton:

I am requesting comment on behalf of Towers of Mississippi II, the State of Mississippi, and the Federal Emergency Management Agency (FEMA) regarding potential impacts to Native American religious or cultural sites by construction of a wireless communications tower in Bolivar County, Mississippi. This project was also submitted through the FCC TCNS on May 16, 2011 (TCNS ID # 76526).

The site is depicted on the United States Geological Survey 7.5-minute Topographic Quadrangle "Shaw, Mississippi," dated 1967. The site is located in the southwest  $\frac{1}{4}$  or the southwest  $\frac{1}{4}$  of Section 31, Township 21 North, Range 6 West, Bolivar County, Mississippi, at latitude 33° 37' 7.391" north and longitude 90° 52' 0.239" west. The site consists of a proposed 100-foot by 100-foot lease area and proposed access road located off of Bitter Creek Road near Shaw, Mississippi. The site consists of a level agricultural field. The access road follows an existing farm road eastward then turns south to the site center. Proposed activities consist of construction of a 450-foot self-supporting communications tower with associated equipment compound, enclosing the compound in a fence, placement of support equipment within the compound, and covering the compound with gravel. I have attached the FCC Form 620 prepared for this project.

Environmental Engineers, Inc. appreciates the opportunity to provide this information. Please reference the Environmental Engineers, Inc. project number (JSE01P1116) in correspondence regarding this site. Thank you for your time and assistance and I look forward to your response. Please call us at (205) 629-3868 or email me at [hfisher@envciv.com](mailto:hfisher@envciv.com) if you have any questions or comments. You can also send a response to us via facsimile at (877) 847-3060.

Sincerely,

Henry A. Fisher  
Environmental Engineers, Inc.  
11578 US Highway 411  
Odenville, Alabama 35120  
Tel (205) 629-3868  
Fax (877) 847-3060



## **ENVIRONMENTAL ENGINEERS, INC.**

**11578 US Highway 411, Odenville, Alabama 35120**

*Environmental, Remediation, and Geological Consultants*

June 22, 2011

Ms. Wendy Huntzinger  
Quapaw Tribe of Oklahoma  
C/o Conner & Winters, LLP  
One Williams Center, Suite 4000  
Tulsa, Oklahoma 74172

Subject:  
**TCNS 76526**  
**MSWIN 30213 B Shaw Communications Facility**  
**Shaw, Bolivar County, Mississippi**  
**Environmental Engineers, Inc. Project No.: JSE01P1116**

Dear Ms. Huntzinger:

I am requesting comment on behalf of Towers of Mississippi, the State of Mississippi, and the Federal Emergency Management Agency (FEMA) regarding potential impacts to Native American religious or cultural sites by construction of a wireless communications tower in Bolivar County, Mississippi. This project was also submitted through the FCC TCNS on May 16, 2011 (TCNS ID # 76526).

The site is depicted on the United States Geological Survey 7.5-minute Topographic Quadrangle "Shaw, Mississippi," dated 1967. The site is located in the southwest ¼ or the southwest ¼ of Section 31, Township 21 North, Range 6 West, Bolivar County, Mississippi, at latitude 33° 37' 7.391" north and longitude 90° 52' 0.239" west (Figure 1). The site consists of a proposed 100-foot by 100-foot lease area and proposed access road located off of Bitter Creek Road near Shaw, Mississippi. The site consists of a level agricultural field. The access road follows an existing farm road eastward then turns south to the site center. Proposed activities consist of construction of a 450-foot self-supporting communications tower with associated equipment compound, enclosing the compound in a fence, placement of support equipment within the compound, and covering the compound with gravel. Per the Quapaw Tribe Cell Phone Tower Consultation Procedures requirements I have included a copy of the FCC Form 620 prepared for this site by MRS Consultants, LLC and Environmental Engineers, Inc., a copy of the State Historic Preservation Officer (SHPO) concurrence letter, and a check for the review fee.

Environmental Engineers, Inc. appreciates the opportunity to provide this information. Please reference the Environmental Engineers, Inc. project number (JSE01P1116) in correspondence regarding this site. Thank you for your time and assistance and I look forward to your response. Please call us at (205) 629-3868 or email me at [agilbert@envciv.com](mailto:agilbert@envciv.com) if you have any questions or comments. You can also send a response to us via facsimile at (877) 847-3060.

Sincerely,  
ENVIRONMENTAL ENGINEERS, INC.

  
Anne B. Gilbert, P.E.  
Principal Engineer

Enclosure      SHPO Letter, Form 620, Check

**Phone: (205) 629-3868 • Fax: (877) 847-3060**

From: (205) 629-3868  
 HENRY FISHER  
 ENVIRONMENTAL ENGINEERS, INC  
 11578 U.S. Highway 411

Origin ID: CZCA



J11201104290225

Ship Date: 22JUN11  
 ActWgt: 1.0 LB  
 CAD: 4760346/INET3180

Odenville, AL 35120

Delivery Address Bar Code



SHIP TO: (918) 586-8953

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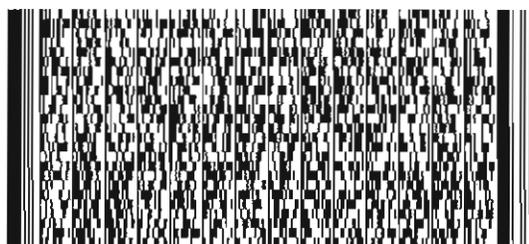
**Ms. Wendy Huntzinger**  
 Quapaw Tribe of Oklahoma  
 1 ONE WILLIAMS CTR STE 4000  
 CO CONNER & WINTERS, LLP  
 TULSA, OK 74172

Ref # SOU06P1113,JSEP1115,JSE1116  
 Invoice #  
 PO #  
 Dept #

THU - 23 JUN A1  
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 74172  
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TRK# 7948 9439 4880

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**Cheryl Johnson**

**From:** TrackingUpdates@fedex.com  
**Sent:** Thursday, June 23, 2011 8:43 AM  
**To:** cjohnson@envciv.com  
**Subject:** FedEx Shipment 794894394880 Delivered

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This tracking update has been requested by:

Company Name: ENVIRONMENTAL ENGINEERS, INC  
Name: HENRY FISHER  
E-mail: cjohnson@envciv.com

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Our records indicate that the following shipment has been delivered:

Reference: SOU06P1113, JSEP1115, JSE1116  
Ship (P/U) date: Jun 22, 2011  
Delivery date: Jun 23, 2011 8:39 AM  
Sign for by: D.CLARK  
Delivery location: TULSA, OK  
Delivered to: Receptionist/Front Desk  
Service type: FedEx Standard Overnight  
Packaging type: FedEx Envelope  
Number of pieces: 1  
Weight: 2.00 lb.  
Special handling/Services: Deliver Weekday  
Residential Delivery

Tracking number: 794894394880

Shipper Information	Recipient Information
HENRY FISHER	Ms. Wendy Huntzinger
ENVIRONMENTAL ENGINEERS, INC	Quapaw Tribe of Oklahoma
11578 U.S. Highway 411	1 ONE WILLIAMS CTR STE 4000
Odenville	CO CONNER & WINTERS, LLP
AL	TULSA
US	OK
35120	US
	74172

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Thank you for your business.

6/23/2011

## Henry Fisher

---

**From:** Wendy Huntzinger <WHuntzinger@cwlaw.com>  
**Sent:** Friday, August 12, 2011 3:36 PM  
**To:** 'towerinfo@envciv.com'; 'Henry Fisher'  
**Subject:** RE: TCNS 76526

Based on the information you have provided for TCNS ID **76526** the Quapaw Tribe of Oklahoma has no immediate concerns or issues regarding this project at this time. Please keep me informed if the nature of the project should change.

Since the site is located in an area of historical interest to the Tribe, it is requested that in the event that any human remains and/or funerary objects are discovered that you cease work and contact us immediately.

Wendy A. Huntzinger  
Paralegal  
Conner & Winters, LLP  
One Williams Center  
Tulsa, Oklahoma 74172

---

**From:** Wendy Huntzinger  
**Sent:** Wednesday, June 01, 2011 10:19 AM  
**To:** 'towerinfo@envciv.com'  
**Subject:** TCNS 76526

The Quapaw Tribe of Oklahoma requests additional information concerning the referenced site. Please provide any archeological reports and/or SHPO letters received. If the sites is a collocation, please inform me if any additional ground disturbance will be associated with the project.

Please see the attached announcement and related resolution concerning an increase in research fee from \$50.00 to \$75.00 which has been implemented by the Quapaw Tribe of Oklahoma for all requests received after January 31, 2008.

Thank you,

Wendy A. Huntzinger  
Paralegal  
Conner & Winters, LLP  
One Williams Center  
Tulsa, Oklahoma 74172  
(918) 586-8953

Notification ID: 76526

=====

Notification Received: 05/16/2011  
Tower Owner Individual or Entity Name: Towers of Mississippi/State of Mississippi  
Consultant Name: Henry A Fisher  
Street Address: 11578 U.S. Highway 411  
City: Odenville  
State: ALABAMA

Zip Code: 35120  
Phone: 205-629-3868  
Email: [towerinfo@envciv.com](mailto:towerinfo@envciv.com)

Structure Type: UTOWER - Unguyed - Free Standing Tower  
Latitude: 33 deg 37 min 7.3 sec N  
Longitude: 90 deg 52 min 0.2 sec W  
Location Description: Off of Bitter Creed Road  
City: Shaw  
State: MISSISSIPPI  
County: BOLIVAR  
Ground Elevation: 39.4 meters  
Support Structure: 137.2 meters above ground level  
Overall Structure: 137.2 meters above ground level  
Overall Height AMSL: 176.6 meters above mean sea level

---

IRS Circular 230 Notice: To ensure compliance with requirements imposed by the IRS, we inform you that, unless specifically indicated otherwise, any tax advice contained in this communication (including any attachment) was not intended or written to be used, and cannot be used, for the purpose of (i) avoiding tax-related penalties under the Internal Revenue Code or (ii) promoting, marketing or recommending to another party any tax-related matter addressed herein.

---

This message and any attachments may contain information that is highly confidential, privileged, and exempt from disclosure. Any recipient other than the intended recipient is advised that any dissemination, distribution, copying, or other use of this message is strictly prohibited.

If you have received this message in error, please notify the sender immediately.

**Henry Fisher**

---

**From:** Earl Barbry, Jr. [earlii@tunica.org]  
**Sent:** Tuesday, May 03, 2005 5:51 PM  
**To:** Henry Fisher  
**Cc:** Niki Jeter  
**Subject:** Re: HELP! - I am stuck in FCC NPA!

Mr. Fisher,

Sorry about the delay. I would like to be notified of the cell tower requests, etc. by email. Also, should no comments be received from my department within the 30 day comment period, proceeding with the project can occur. I stand the same as the other Tribes regarding immediate work stoppage and contacting this office should inadvertent discovery occur.

Thank you for taking the time to contact me and getting my input into these matters. Let me know if this response is sufficient or if you need a letter on Tribal stationary mailed to you.

Should you need immediate assistance, and I am out of the office, speak to my Administrative Assistant, Ms. Amber (Niki) Jeter - dial the number below and hit 0 to speak to her.

Many thanks,

Earl J. Barbry, Jr., THPO  
Tunica-Biloxi Tribe of Louisiana  
318-253-0213 ext. 6851

## Henry Fisher

---

**From:** Henry Fisher <hfisher@envciv.com>  
**Sent:** Wednesday, June 08, 2011 10:16 AM  
**To:** earlii@tunica.org  
**Subject:** MSWIN 30213 B Shaw Communications Facility TCNS 76526

Mr. Earl Barbry  
Tunica-Biloxi Indians of Louisiana

Subject:  
TCNS 76526  
MSWIN 30213 B Shaw Communications Facility  
Shaw, Bolivar County, Mississippi  
Environmental Engineers, Inc. Project No.: JSE01P1116

Dear Mr. Barbry:

I am requesting comment on behalf of Towers of Mississippi II, the State of Mississippi, and the Federal Emergency Management Agency (FEMA) regarding potential impacts to Native American religious or cultural sites by construction of a wireless communications tower in Bolivar County, Mississippi. This project was also submitted through the FCC TCNS on May 16, 2011 (TCNS ID # 76526).

The site is depicted on the United States Geological Survey 7.5-minute Topographic Quadrangle "Shaw, Mississippi," dated 1967. The site is located in the southwest  $\frac{1}{4}$  or the southwest  $\frac{1}{4}$  of Section 31, Township 21 North, Range 6 West, Bolivar County, Mississippi, at latitude 33° 37' 7.391" north and longitude 90° 52' 0.239" west. The site consists of a proposed 100-foot by 100-foot lease area and proposed access road located off of Bitter Creek Road near Shaw, Mississippi. The site consists of a level agricultural field. The access road follows an existing farm road eastward then turns south to the site center. Proposed activities consist of construction of a 450-foot self-supporting communications tower with associated equipment compound, enclosing the compound in a fence, placement of support equipment within the compound, and covering the compound with gravel.

Environmental Engineers, Inc. appreciates the opportunity to provide this information. Please reference the Environmental Engineers, Inc. project number (JSE01P1116) in correspondence regarding this site. Thank you for your time and assistance. Based on the electronic mail that you sent to our office on May 3, 2005 it is my understanding that we may assume that the Tunica-Biloxi Indians of Louisiana concurs with the proposed project if we have not received a comment from your office within 30 days of submittal of project information to your office via electronic mail. Please call us at (205) 629-3868 or email me at [hfisher@envciv.com](mailto:hfisher@envciv.com) if you have any questions or comments. You can also send a response to us via facsimile at (877) 847-3060.

Sincerely,

Henry A. Fisher  
Environmental Engineers, Inc.  
11578 US Highway 411  
Odenville, Alabama 35120  
Tel (205) 629-3868  
Fax (877) 847-3060

# Appendix K



**ENVIRONMENTAL ENGINEERS, INC.**

**11578 US Highway 411, Odenville, Alabama 35120**

*Environmental, Remediation, and Geological Consultants*

May 26, 2011

Mr. Slade Lindsay  
Towers of Mississippi II  
State of Mississippi  
31560 Blakely Way  
Spanish Fort, Alabama 36532

Subject:

**Phase I Environmental Site Assessment**  
**MSWIN 30213 B Shaw Communications Facility**  
**Shaw, Bolivar County, Mississippi**  
Environmental Engineers, Inc. Project No.: JSE01P1116

Dear Mr. Lindsay:

Environmental Engineers, Inc. has completed the requested Phase I Environmental Site Assessment (ESA) for the subject parcel. The enclosed report describes our study and presents our findings.

Environmental Engineers, Inc. appreciates the opportunity to provide this assessment. If you have any questions regarding this report or if we may be of further service to you, please contact us at (205) 629-3868.

Sincerely,

ENVIRONMENTAL ENGINEERS, INC.

David Carroll  
Staff Geologist

Enc. Phase I ESA Report (3 copies)

Cc w enc. Mr. Taylor Robinson, Towers of Mississippi II (electronic copy)  
Ms. Nancy Lindsay, Towers of Mississippi II (electronic copy)

**Phone: (205) 629-3868 • Fax: (877) 847-3060**



**ENVIRONMENTAL ENGINEERS, INC.**

**11578 US Highway 411, Odenville, Alabama 35120**

*Environmental, Remediation, and Geological Consultants*

**PHASE I ENVIRONMENTAL SITE ASSESSMENT**

**MSWIN 30213 B Shaw Communications Facility**

**Shaw, Bolivar County, Mississippi**

Environmental Engineers, Inc. Project No.: JSE01P1116

Prepared for:  
Towers of Mississippi II  
State of Mississippi  
Spanish Fort, Alabama

May 26, 2011

Prepared by:  
ENVIRONMENTAL ENGINEERS, INC.

David Carroll  
Staff Geologist

Henry A. Fisher, P.E.  
Principal Engineer

**Phone: (205) 629-3868 • Fax: (877) 847-3060**

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- Appendix D   General Conditions



## EXECUTIVE SUMMARY

Mr. Taylor Robinson of Towers of Mississippi II authorized a Phase I Environmental Site Assessment (ESA) for a lease portion of a larger parcel located off of Bitter Creek Road near Shaw, Mississippi. The Phase I study included the following services:

- a site reconnaissance to look for visual evidence of potential contamination;
- evaluation of land uses on surrounding properties which may have affected the project site;
- a general reconnaissance within a one-mile radius of the project site;
- review of specific environmental regulatory listings;
- review of available aerial photographs and historical records;
- review of published literature concerning site area geology, soils, and hydrology; and
- preparation of this report.

The site consists of a proposed 100-foot by 100-foot lease area and access road located off of Bitter Creek Road near Shaw, Mississippi. The site consists of a level agricultural field. The access road follows an existing farm road eastward then turns south to the site center. Proposed activities consist of construction of a 450-foot self-supporting communications tower with associated equipment compound, enclosing the compound in a fence, placement of support equipment within the compound, and covering the compound with gravel.

Environmental Engineers, Inc. performed a *Phase I Environmental Site Assessment* in conformance with the scope and limitations of ASTM Standard Practice E 1527-05 of the proposed MSWIN 30213 B Shaw Communications Facility located off of Bitter Creek Road near Shaw, Mississippi, the *property*. This assessment has revealed no evidence of on- or off-site *recognized environmental conditions* in connection with the *property*. Based on the results of this assessment, Environmental Engineers, Inc. does not recommend further assessment of site soils or groundwater at this time.

It should be noted that this section is only intended to represent a brief summary of our findings, and is not a detailed account of all the information compiled in preparation of this report. The report should be reviewed in its entirety prior to drawing any final conclusions as to potential environmental conditions associated with the site.



## 1.0 INTRODUCTION

### 1.1 PURPOSE

The purpose of this environmental assessment is to investigate and identify *recognized environmental conditions* associated with the site and/or surrounding property. *Recognized environmental conditions*, as defined in the American Society for Testing and Materials (ASTM) Standard Practice E1527-05, include the following:

“The presence or likely presence of any *hazardous substances* or *petroleum products* on a *property* under conditions that indicate an existing release, a past release, or a material threat of a release of any *hazardous substances* or *petroleum products* into structures on the *property* or into the ground, groundwater, or surface water of the *property*. The term includes *hazardous substances* or *petroleum products* even under conditions in compliance with laws. The term is not intended to include *de minimus* conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.”

### 1.2 CERTIFICATION

Environmental Engineers, Inc. declares that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in §312.10 of 40 CFR 312. Environmental Engineers, Inc. has the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. We have developed and performed all the appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312. We have included the qualifications for the Environmental Engineers, Inc. personnel that participated in this assessment as Appendix A.

### 1.3 SITE LOCATION

The site is depicted on the United States Geological Survey 7.5-minute Topographic Quadrangle “Shaw, Mississippi,” dated 1967. The site is located in the southwest ¼ or the southwest ¼ of Section 31, Township 21 North, Range 6 West, Bolivar County, Mississippi, at latitude 33° 37' 7.391” north and longitude 90° 52' 0.239” west (Figure 1).

This site is referred to as the MSWIN 30213 B Shaw Communications Facility and is located off of Bitter Creek Road near Shaw, Mississippi. The current property owner is listed by the Bolivar County Tax Assessor’s Office as Can-Mar Farms, Inc., and the parcel number is 32031-900-00-00700.



## **2.0 SUMMARY OF PREVIOUS ENVIRONMENTAL SITE ASSESSMENTS**

Environmental Engineers, Inc. is unaware of any previous environmental assessments of the site.

### **3.0 CURRENT SITE CHARACTERISTICS**

#### **3.1 SITE DESCRIPTION AND OPERATIONS**

The site consists of a proposed 100-foot by 100-foot lease area and access road located off of Bitter Creek Road near Shaw, Mississippi. The site consists of a level agricultural field. The access road follows an existing farm road eastward then turns south to the site center. Proposed activities consist of construction of a 450-foot self-supporting communications tower with associated equipment compound, enclosing the compound in a fence, placement of support equipment within the compound, and covering the compound with gravel.

#### **3.2 SITE RECONNAISSANCE**

Environmental Engineers, Inc. conducted a site reconnaissance on May 18, 2011. The purpose of this visit was to observe the property and adjacent properties for evidence of *recognized environmental conditions*, as stated in Section 1.1. Site photographs are included as Figures 2 through 6.

No evidence of aboveground or underground storage tanks (ASTs/USTs), buckets, transformers, stained soil, stressed vegetation, pits, ponds, lagoons, or noxious odors were noted at the site.

#### **3.3 SITE UTILITIES**

Overhead electrical service was noted crossing the proposed access road, and underground telephone service was noted near the proposed access road. No utilities were noted on the site.

#### **3.4 ADDITIONAL SITE INFORMATION**

##### **3.4.1 Hydrology**

Based on topographic interpretation, surface water runoff from the site is expected to flow generally east toward Bogue Phalia. Groundwater beneath the site is inferred to flow east toward Bogue Phalia and may be present at perhaps less than 20 feet below ground surface (bgs).

##### **3.4.2 Geology**

According to the Mississippi Geological Survey, Geologic Map of Mississippi, dated 1969 and reprinted 1985, the site is underlain by the Alluvium of Quaternary Age. Alluvium consists of loam, sand, gravel, and clay. It is mapped only in the Mississippi River Alluvial Plain.



### 3.4.3 Soils

According to the USDA's Natural Resources Conservation Service (NRCS) Soil Survey of Bolivar County Mississippi, issued December 1958, site soils are classified as Sharkey clay, nearly level phase. This dark-colored, poorly drained soil has formed from fine-textured Mississippi River alluvium. In a typical profile from zero to six inches in depth it is very dark grayish-brown firm clay. From six to 48 inches in depth it is very dark gray, very firm clay mottled with brown and with other shades of gray.

It should be noted that information listed in Section 3.4 of this report is for the general area of the site, and is not intended as a substitute for site-specific geotechnical and/or hydrological information.

## 4.0 CURRENT AREA CHARACTERISTICS

### 4.1 ADJACENT PROPERTIES

Properties adjacent to the site were observed to determine if there was any visible evidence of off-site land uses that might adversely affect the site. The site is immediately surrounded by agricultural fields.

### 4.2 PROPERTIES WITHIN 1,000-FOOT RADIUS

Properties within a 1,000-foot radius of the site were observed to determine if there was any visible evidence of off-site land uses that might adversely affect the site. Properties surrounding the site in all directions consist of agricultural land. Bogue Phalia is located east of the site and Bitter Creek Road is located west of the site.

### 4.3 AREA UTILITIES

According to Mr. Larry Davis of Can-Mar Farms, Inc., electrical service in the area of the site is provided by the Delta Electric, and telephone service is provided by AT&T.

### 4.4 AREA GEOLOGY AND HYDROLOGY

According to the Mississippi Geological Survey, Geologic Map of Mississippi, dated 1969 and reprinted 1985, the area surrounding the site is underlain by Alluvium of Quaternary Age. Alluvium consists of loam, sand, gravel, and clay. It is mapped only in the Mississippi River Alluvial Plain.

Based on topographic interpretation, surface water runoff and groundwater beneath the area surrounding the site are expected to flow generally toward Bogue Phalia.



## 5.0 SITE HISTORY – 1918 TO PRESENT

### 5.1 PROPERTY OWNERSHIP HISTORY

Property ownership information was reviewed in an effort to determine past ownership of the site. Property ownership information available at the Bolivar County Courthouse in Cleveland, Mississippi is listed in the table below. It should be noted that this information does not constitute a formal chain-of-title.

<b>Property Ownership Information</b>	
<b>Years of Ownership</b>	<b>Property Owner</b>
8/13/1990 – Present	Can-Mar Farms, Inc.
12/07/1962 – 8/31/1990	Carl Verl Fullen and wife, Mary A. Fullen; and J.W. Buzick, Jr.
1/06/1962 – 12/07/1962	Michael B. Litton and wife, Kathryn H. Litton
6/11/1942 – 1/06/1962	Jessie Smith and wife, Lizzie Annie Smith
11/07/1936 – 6/11/1942	G.F. Turpin
5/23/1918 – 11/07/1936	E.P. Hazel
Prior to 1918	Estate of F.B. Pratt

### 5.2 AERIAL PHOTOGRAPHS

Aerial photographs dated 1957, 1979, 1996, 2002, 2005, 2006, 2007, and 2010 including the subject site were examined. All aerial photographs depict the site as being an agricultural field and similar to that noted during the site reconnaissance. Copies of the portions of the aerial photographs depicting the site location are included in Appendix B.

### 5.3 SANBORN FIRE INSURANCE MAPS

The site is located outside the limits covered by Sanborn Fire Insurance Maps.

### 5.4 SITE INTERVIEWS

A telephone interview was conducted with Mr. Larry Davis of Can-Mar Farms, Inc., regarding site use and history. Mr. Davis stated that the property containing the site has been owned by his wife's family since the 1950s. Mr. Davis said he has been familiar with the property for 33 years and that to his knowledge the property has always been agricultural land and that there have never been any structures or drums or buckets of chemicals stored on the site to his knowledge.



## **6.0 AREA HISTORY – 1957 TO PRESENT**

### **6.1 AERIAL PHOTOGRAPHS**

Aerial photographs dated 1957, 1979, 1996, 2002, 2005, 2006, 2007, and 2010 including properties surrounding the site were examined. All aerial photographs reviewed depict properties surrounding the site to be agricultural land with Bogue Phalia east of the site and Bitter Creek Road west of the site. The 2010 aerial photograph depicts properties surrounding the site as similar to that noted during the site reconnaissance. Copies of the portions of the aerial photographs examined are included in Appendix B.

### **6.2 SANBORN FIRE INSURANCE MAPS**

The area surrounding the site is located outside the limits covered by Sanborn Fire Insurance Maps.

## **7.0 ENVIRONMENTAL REGULATORY INFORMATION**

Federal and state environmental regulatory records were reviewed by Environmental Engineers, Inc. to determine the environmental regulatory status of facilities identified within specific distances of the subject site. The databases reviewed and search radii for each database are designated by the ASTM Standard Practice E1527-05. FirstSearch Technology Corporation (FirstSearch) compiled this information (Appendix C). Descriptions of the acronyms used for each database are presented in the FirstSearch report.

### **7.1 SITE ENVIRONMENTAL REGULATORY INFORMATION**

The subject site is not listed on any existing federal or state environmental regulatory databases.

### **7.2 GEOCODED SITES**

FirstSearch identified no facilities as being located within the search radii designated by ASTM.

### **7.3 NON-GEOCODED SITES**

Due to inadequate address or other facility identifier information, FirstSearch could not plot some of the facilities contained within the federal and state databases on a map. However, these facilities are identified in the list of non-geocoded sites provided by FirstSearch. This summary was reviewed by Environmental Engineers, Inc. to determine if any of the facilities on or surrounding the site was included on this list. The review indicated the facilities listed as non-geocoded were located outside the ASTM search distances of the site or were not topographically upgradient of the site.



## 7.4 REGULATORY INTERVIEWS

A telephone interview was conducted with Captain Timmy Conoco of the Shaw Fire Department, regarding hazardous material responses or other environmental emergency responses in the vicinity of the site. Captain Conoco stated that he has been employed with the Shaw Fire Department for 23 years, and he is not aware of any hazardous material responses or other environmental emergency responses in the immediate vicinity of the site during that time.

## 8.0 ASTM/AAI USER QUESTIONNAIRE

According to the ASTM E1527-05/EPA All Appropriate Inquiry (AAI) Standard, in order to qualify for one of the Landowner Liability Protections (LLPs) offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the “Brownfields Amendments”), the user must provide the following information (if available) to the environmental professional. Failure to provide this information could result in a determination that “all appropriate inquiry” is not complete.

Environmental Engineers, Inc. contacted Mr. Taylor Robinson of Towers of Mississippi II to provide the required information. The ASTM/AAI user questionnaire and Mr. Robinson’s answers are summarized in the following paragraphs.

(1.) **Environmental cleanup liens that are filed or recorded against the site (40 CFR 312.25).**

Are you aware of any environmental cleanup liens against the *property* that are filed or recorded under federal, tribal, state or local law?

Mr. Robinson indicated that he was not aware of any such liens.

(2.) **Activity and land use limitations that are in place on the site or that have been filed or recorded in a registry (40 CFR 312.26).**

Are you aware of any AULS, such as *engineering controls*, land use restrictions or *institutional controls* that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state or local law?

Mr. Robinson indicated that he was not aware of any land use limitations at the site.

(3.) **Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28).**

As the *user* of this *ESA* do you have any specialized knowledge or experience related to the *property* or nearby properties? For example, are you involved in the same line of business as the current or former *occupants* of the *property* or an adjoining *property* so that you would have specialized knowledge of the chemicals and processes used by this type of business?

Mr. Robinson indicated that he did not have specialized knowledge or experience related to the *property* or nearby properties.



(4.) **Relationship of the purchase price to the fair market value of the *property* if it were not contaminated (40 CFR 312.29).**

Does the purchase price being paid for this *property* reasonably reflect the fair market value of the *property*? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the *property*?

Mr. Robinson indicated that there was only a leasehold interest in the property, which is at fair market value for the purposes they intend.

(5.) **Commonly known or *reasonably ascertainable* information about the *property* (40 CFR 312.30).**

Are you aware of commonly known or *reasonably ascertainable* information about the *property* that would help the *environmental professional* to identify conditions indicative of releases or threatened releases? For example, as *user*,

(a). Do you know the past users of the *property*?

Mr. Robinson stated that he was unaware of the past user of the property.

(b). Do you know of specific chemicals that are present or once were present at the *property*?

Mr. Robinson indicated that he was not aware of specific chemicals formerly or currently present on the property.

(c). Do you know of spills or other chemical releases that have taken place at the *property*?

Mr. Robinson indicated he was not aware of spills or other chemical releases on the property.

(d). Do you know of any environmental cleanups that have taken place at the *property*?

Mr. Robinson indicated that he was unaware if any environmental cleanup had occurred at the site in the past.

(6.) **The degree of obviousness of the presence or likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31).**

As the *user* of this *ESA*, based on your knowledge and experience related to the *property* are there any *obvious* indicators that point to the presence or likely presence of contamination at the *property*?



Mr. Robinson indicated that he was not aware of any obvious indicators that point to the presence or likely presence of contamination at the property.

## **9.0 CONCLUSIONS AND RECOMMENDATIONS**

Environmental Engineers, Inc. performed a *Phase I Environmental Site Assessment* in conformance with the scope and limitations of ASTM Standard Practice E 1527-05 of the proposed MSWIN 30213 B Shaw Communications Facility located off of Bitter Creek Road near Shaw, Mississippi, the *property*. This assessment has revealed no evidence of on- or off-site *recognized environmental conditions* in connection with the *property*. Based on the results of this assessment, Environmental Engineers, Inc. does not recommend further assessment of site soils or groundwater at this time.

## **10.0 REFERENCES / INFORMATION SOURCES**

Research and evaluation of the environmental conditions at the site and surrounding properties included utilization of the following sources:

1. Geologic information published by the United States Geological Survey and the Geological Survey of Mississippi.
2. USGS 7.5-minute Topographic Quadrangle "Shaw, Mississippi," dated 1967.
3. Soils information and an aerial photograph available from the USDA's Soil Survey of Bolivar County Mississippi, issued December 1958.
4. Aerial photographs available from the USDA's Natural Resources Conservation Service in Cleveland, Mississippi, Google Earth and Map Card Internet website.
5. Telephone interview with Mr. Larry Davis of Can-Mar Farms, Inc., current site owner, regarding past use and history of the site and local utility providers.
6. Review of environmental regulatory report for the site prepared by FirstSearch Technology Corporation, having Project Number JSE01P1116 dated May 17, 2011.
7. Telephone interview with Captain Timmy Conoco of the Shaw Fire Department, regarding hazardous materials responses or other environmental emergency responses in the area of the site.
8. Review of AAI Questionnaire results provided by Mr. Taylor Robinson of Towers of Mississippi II.



## 11.0 SPECIAL TERMS AND CONDITIONS

This Phase I ESA has been conducted in accordance with the ASTM *Standard Practice for Environmental Site Assessments: Phase I Site Assessment Process*, designation E1527-05.

Historical and environmental information pertaining to the subject site has been included in this report to the extent that such information is “publicly available” and “practically reviewable,” as defined in the above-referenced standard practice manual, within reasonable time and monetary constraints.

Conclusions stated herein are based upon publicly available information and other documented sources. Environmental Engineers, Inc. assumes no responsibility for inaccurate information that is not otherwise obvious in light of information of which Environmental Engineers, Inc. has actual knowledge.

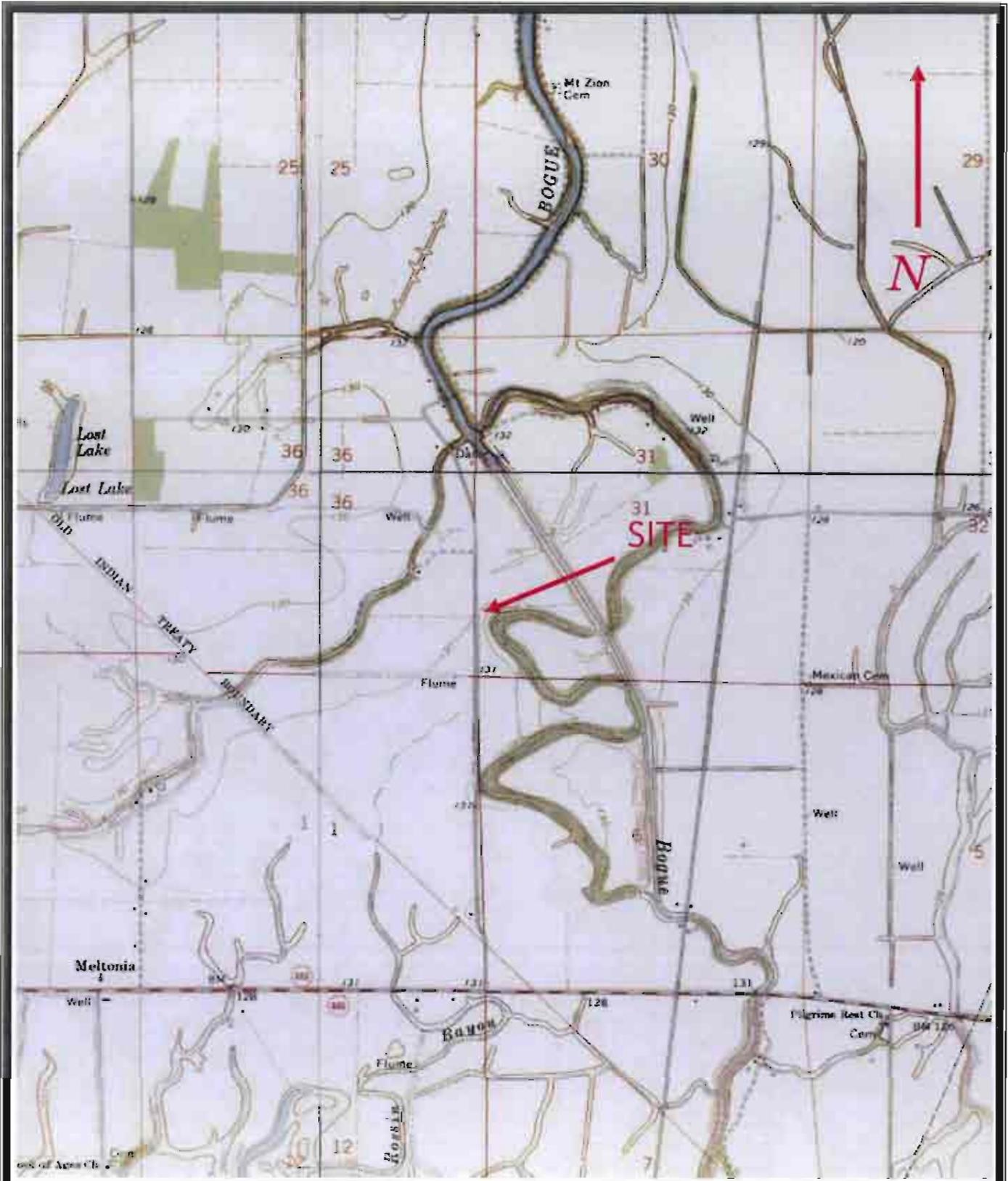
Services not within the scope of this study include, but are not limited to, the following:

- an investigation of mining structures under the project site;
- an investigation of potential asbestos-containing materials at the site;
- an investigation for potential jurisdictional wetlands on the site;
- an investigation for potential mold in any onsite structures;
- an investigation of the likelihood of sinkhole activity around the site; and
- an investigation for the presence of unacceptable levels of radon-producing elements in surface soils on the project site.

This report may be relied upon by Towers of Mississippi II, the State of Mississippi, and their lenders, subject to the terms and conditions included as Appendix D. No other person may rely on this report without written authorization from Environmental Engineers, Inc.

This assessment is intended to reduce, not eliminate, the level of environmental uncertainty associated with the site. Environmental Engineers, Inc. is not responsible for the conclusions made by others based on this assessment.





**Environmental Engineers, Inc.**

Subject:  
 MSWIN 30213 Shaw Communications Facility  
 Shaw, Bolivar County, Mississippi  
 Environmental Engineers, Inc. Project No.: JSE01P1116

Figure 1  
 Site Location Map  
 Scale: 1" = 2000'





View from the center of the site looking toward the north.



View from the center of the site looking toward the east.

## Environmental Engineers, Inc.

Subject:  
MSWIN 30213 Shaw Communications Facility  
Shaw, Bolivar County, Mississippi  
Environmental Engineers, Inc. Project No.: JSE01P1116

Figure 2  
Site Photographs





View from the center of the site looking toward the south.



View from the center of the site looking toward the west.

## Environmental Engineers, Inc.

Subject:  
MSWIN 30213 Shaw Communications Facility  
Shaw, Bolivar County, Mississippi  
Environmental Engineers, Inc. Project No.: JSE01P1116

Figure 3  
Site Photographs





Overall view of the tower facility from the proposed access road. View is toward the southeast.



View of the proposed access road from Bitter Creek Road. View is toward the east.

## Environmental Engineers, Inc.

Subject:  
MSWIN 30213 Shaw Communications Facility  
Shaw, Bolivar County, Mississippi  
Environmental Engineers, Inc. Project No.: JSE01P1116

Figure 4  
Site Photographs





View along Bitter Creek Road toward the north.



View along Bitter Creek Road toward the south.

## Environmental Engineers, Inc.

Subject:  
MSWIN 30213 Shaw Communications Facility  
Shaw, Bolivar County, Mississippi  
Environmental Engineers, Inc. Project No.: JSE01P1116

Figure 5  
Site Photographs





View across Bitter Creek Road from the proposed access road. View is toward the west.

## Environmental Engineers, Inc.

Subject:  
MSWIN 30213 Shaw Communications Facility  
Shaw, Bolivar County, Mississippi  
Environmental Engineers, Inc. Project No.: JSE01P1116

Figure 6  
Site Photographs



**David R. Carroll**  
**Staff Geologist**

**EXPERTISE:**

Experience conducting NPDES inspections, permitting, and sampling, soil/groundwater sampling and site remediation activities

Experience conducting Phase I Environmental Site Assessments, completing National Environmental Policy Act Assessments, and conducting UST removal and closure

**PROJECT EXPERIENCE:**

- Performed UST removal and Closure on sites throughout Alabama.
- Performed NPDES compliance inspections, permitting, and sampling for construction sites in Lauderdale, Colbert, Limestone, Franklin, Lawrence, Marion, Winston, Morgan, St. Clair and Jefferson counties in Alabama.
- Conducted Phase I Environmental Site Assessments for real estate transactions throughout Alabama, Mississippi and Georgia.

**EMPLOYMENT HISTORY:**

Staff Geologist, TTL, Inc., Florence, Alabama  
04/1999 – 12/2002

Staff Geologist, Environmental Engineers, Inc. Odenville, Alabama  
09/2010 - Present

**EDUCATION:**

Bachelor of Science in Professional Geology, 1998 from University of North Alabama.

**CERTIFICATIONS:**

Qualified Credentialed Stormwater Inspector, 2010

**Henry A. Fisher, P.E.**  
**Vice-President/Principal Engineer**

**EXPERTISE:**

Responsible for performing NPDES compliance inspections and sampling for industrial facilities and construction sites and development of Best Management Practices Plans for industrial facilities and construction sites. Responsible for groundwater and soil sampling, groundwater remediation; including free product recovery, Phase I and Phase II Environmental Site Assessments, Environmental Transaction Screens, UST Closure Assessments, UST site investigations, preparation of a Confirmatory Sampling Workplan for a RCRA facility, Confirmatory Sampling at a RCRA facility, preparation of SPCC Plans, preparation of EPCRA Tier II reporting forms, and preparation and implementation of soil and surface water sampling programs for a biosolids land-application facility. Responsible for Asbestos Surveys at various commercial, residential, and commercial facilities. Conducted National Environmental Policy Act (NEPA) Checklists for numerous telecommunication facilities throughout the Southeastern United States.

**PROJECT EXPERIENCE:**

- Conducted and managed Phase I and Phase II Environmental Site Assessments for real estate transactions throughout the Southeastern United States.
- Conducted and managed UST Closure Assessments and Preliminary Investigations throughout the State of Alabama.
- Performed NPDES compliance inspections and sampling for construction sites in Blount, Jefferson, Shelby, St. Clair, Talladega, and Tuscaloosa counties.
- Developed Best Management Practices Plans for industrial facilities in Shelby and Talladega counties.
- Developed and maintained a “free-product” recovery system for use in Jackson, MS and Boligee, AL.
- Responsible for development and implementation of sampling plans at three Jefferson County biosolids land application facilities.
- Responsible for implementation of a Confirmatory Sampling Workplan at a RCRA facility located in Jefferson County, Alabama.
- Responsible for performing triennial asbestos inspections and Asbestos Surveys at schools throughout Alabama.
- Provided project coordination and air sampling services for an Asbestos Abatement on an off-shore oil drilling platform.
- Responsible for performing an Asbestos Survey for a large hospital located in Sylacauga, Alabama.
- Conducted and managed National Environmental Policy Act (NEPA) Checklist activities associated with wireless telecommunications facilities throughout the Southeastern United States.

**EMPLOYMENT HISTORY:**

Project Engineer, Gallet & Associates, Inc. Birmingham, Alabama  
12/1994 - 1/1999.

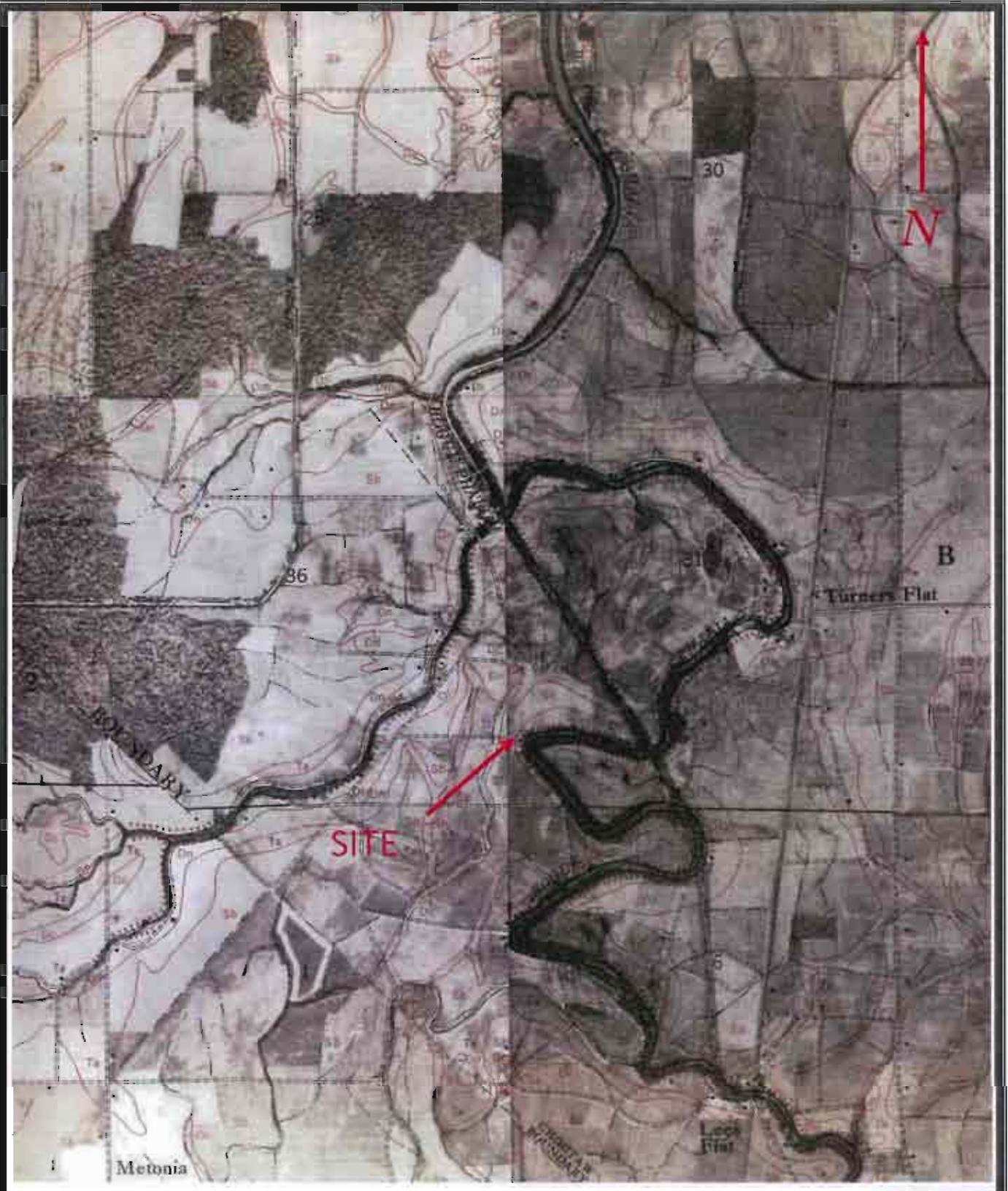
Vice-President/Engineer, Environmental Engineers, Inc. Odenville, Alabama  
1/1999 - Present

**EDUCATION:**

Bachelor of Science in Civil Engineering, August 1994 from the University of Alabama at Birmingham.

**CERTIFICATIONS:**

Professional Engineer certification - Alabama, 1999  
Professional Engineer certification - Mississippi, 2000  
Professional Engineer certification – Florida, 2007  
Professional Engineer certification – Kentucky, 2007  
40-Hour OSHA training, 1999

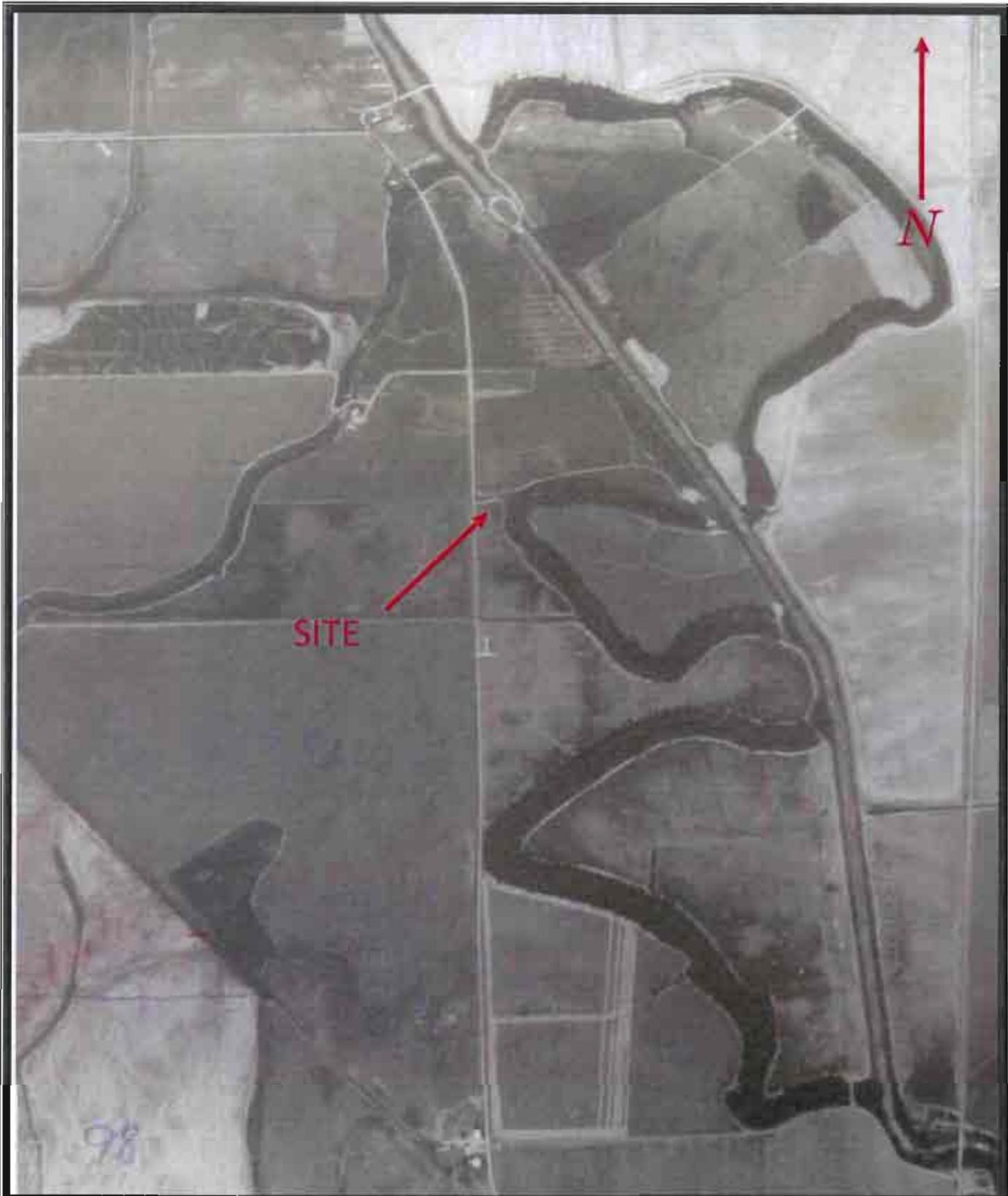


**Environmental Engineers, Inc.**

Subject:  
MSWIN 30213 Shaw Communications Facility  
Shaw, Bolivar County, Mississippi  
Environmental Engineers, Inc. Project No.: JSE01P1116

Appendix B  
1957 Aerial Photograph





**Environmental Engineers, Inc.**

Subject:  
MSWIN 30213 Shaw Communications Facility  
Shaw, Bolivar County, Mississippi  
Environmental Engineers, Inc. Project No.: JSE01P1116

Appendix B  
1979 Aerial Photograph



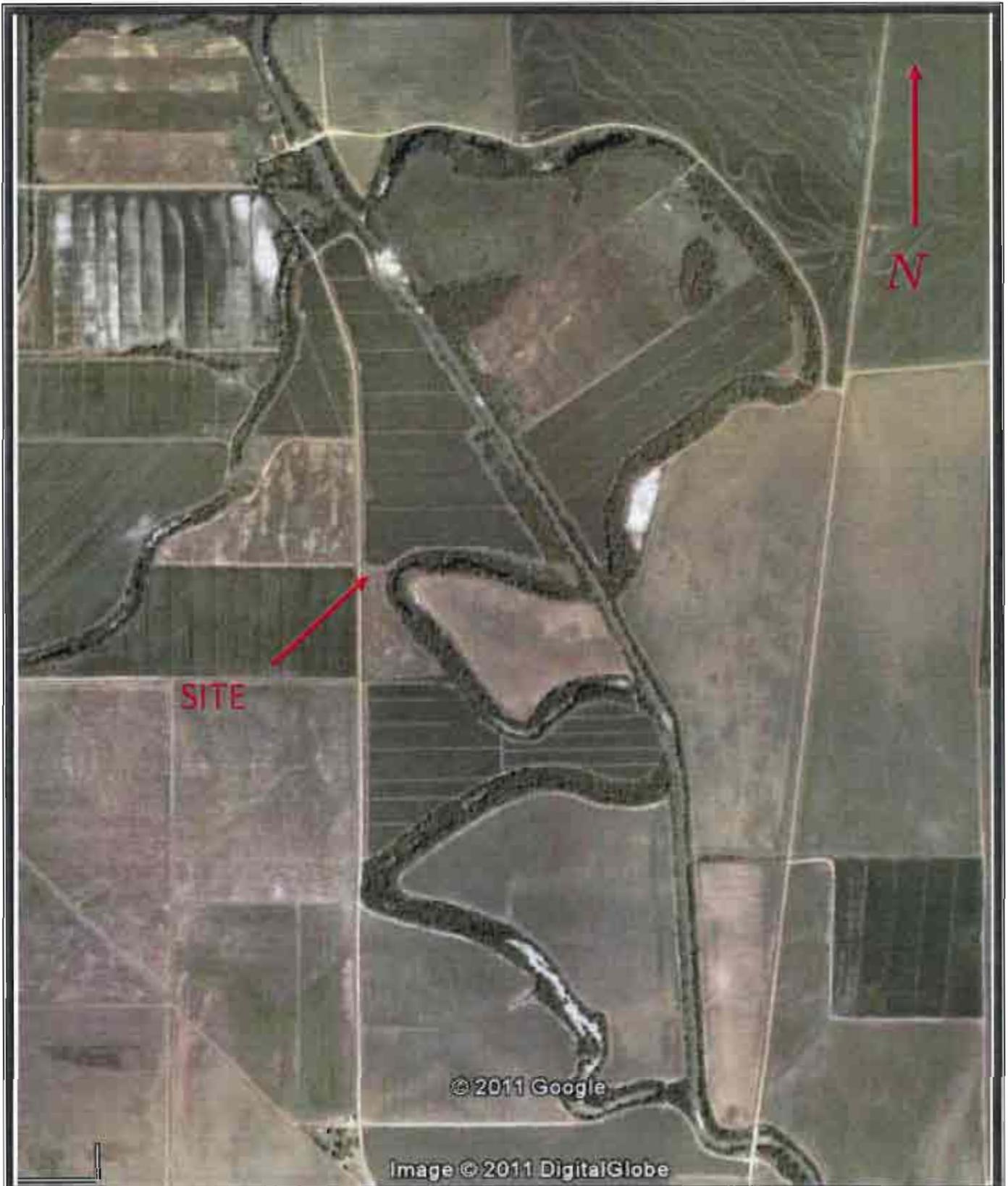


## Environmental Engineers, Inc.

Subject:  
MSWIN 30213 Shaw Communications Facility  
Shaw, Bolivar County, Mississippi  
Environmental Engineers, Inc. Project No.: JSE01P1116

Appendix B  
1996 Aerial Photograph



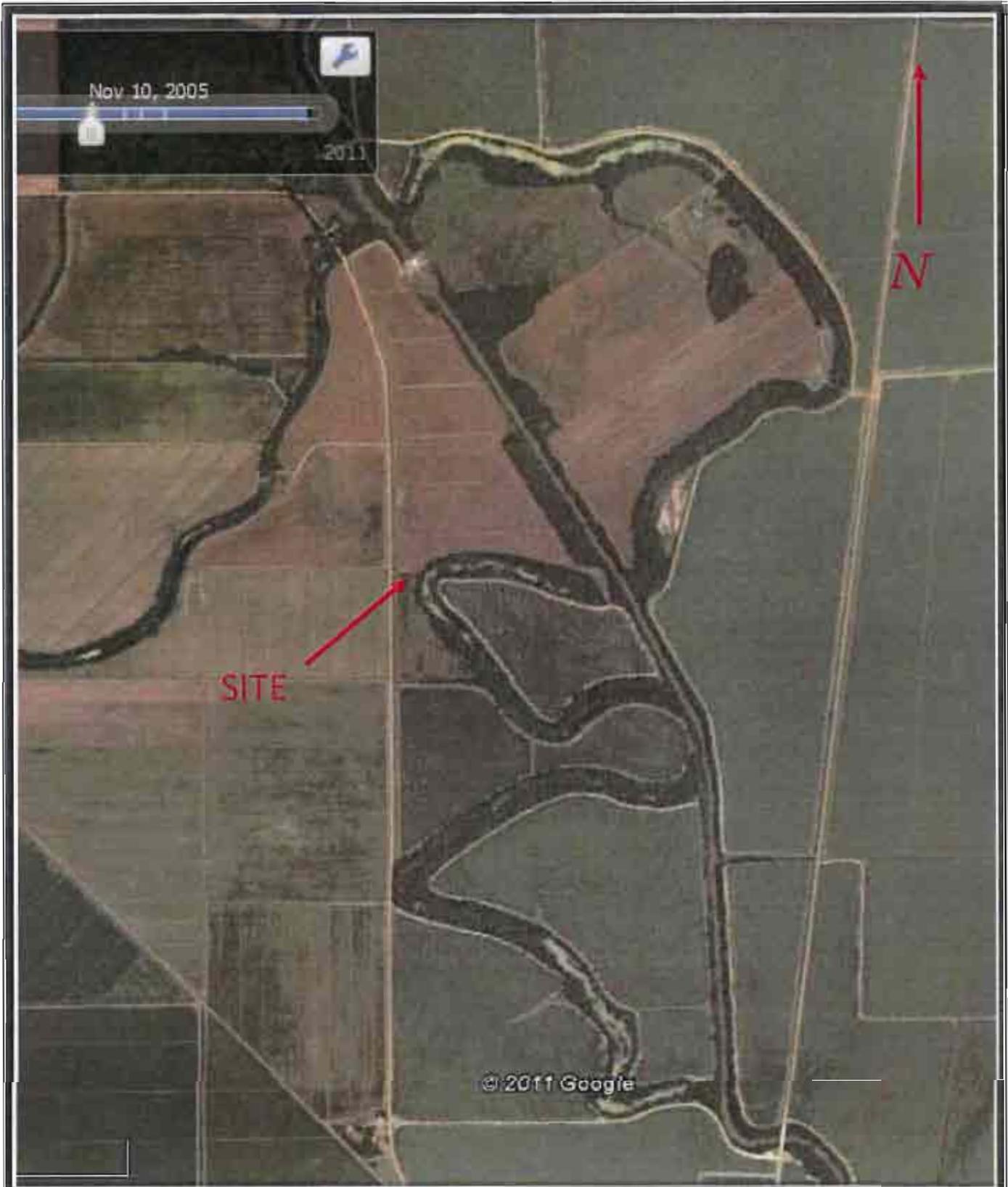


## Environmental Engineers, Inc.

Subject:  
MSWIN 30213 Shaw Communications Facility  
Shaw, Bolivar County, Mississippi  
Environmental Engineers, Inc. Project No.: JSE01P1116

Appendix B  
2002 Aerial Photograph



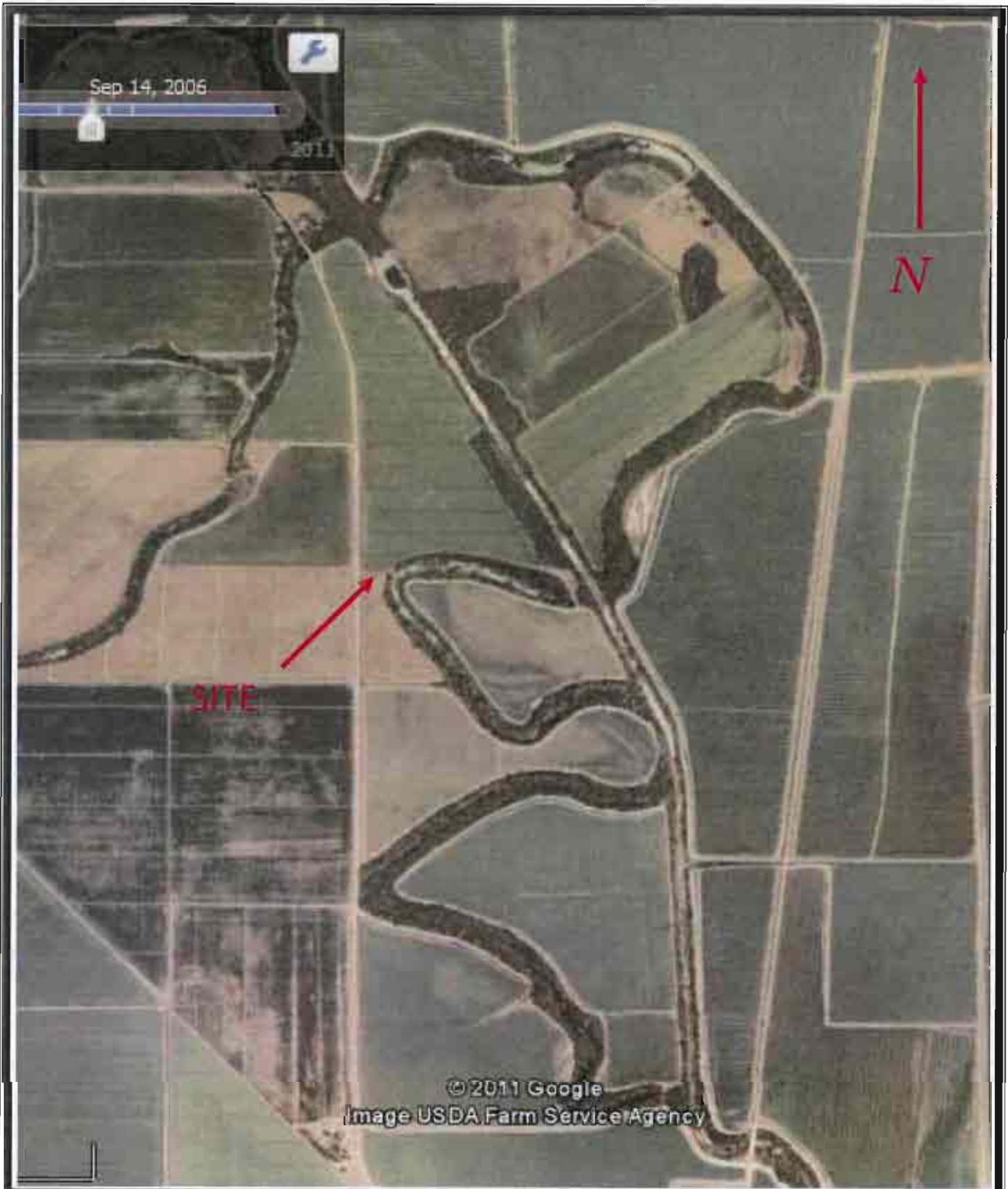


## Environmental Engineers, Inc.

Subject:  
MSWIN 30213 Shaw Communications Facility  
Shaw, Bolivar County, Mississippi  
Environmental Engineers, Inc. Project No.: JSE01P1116

Appendix B  
2005 Aerial Photograph



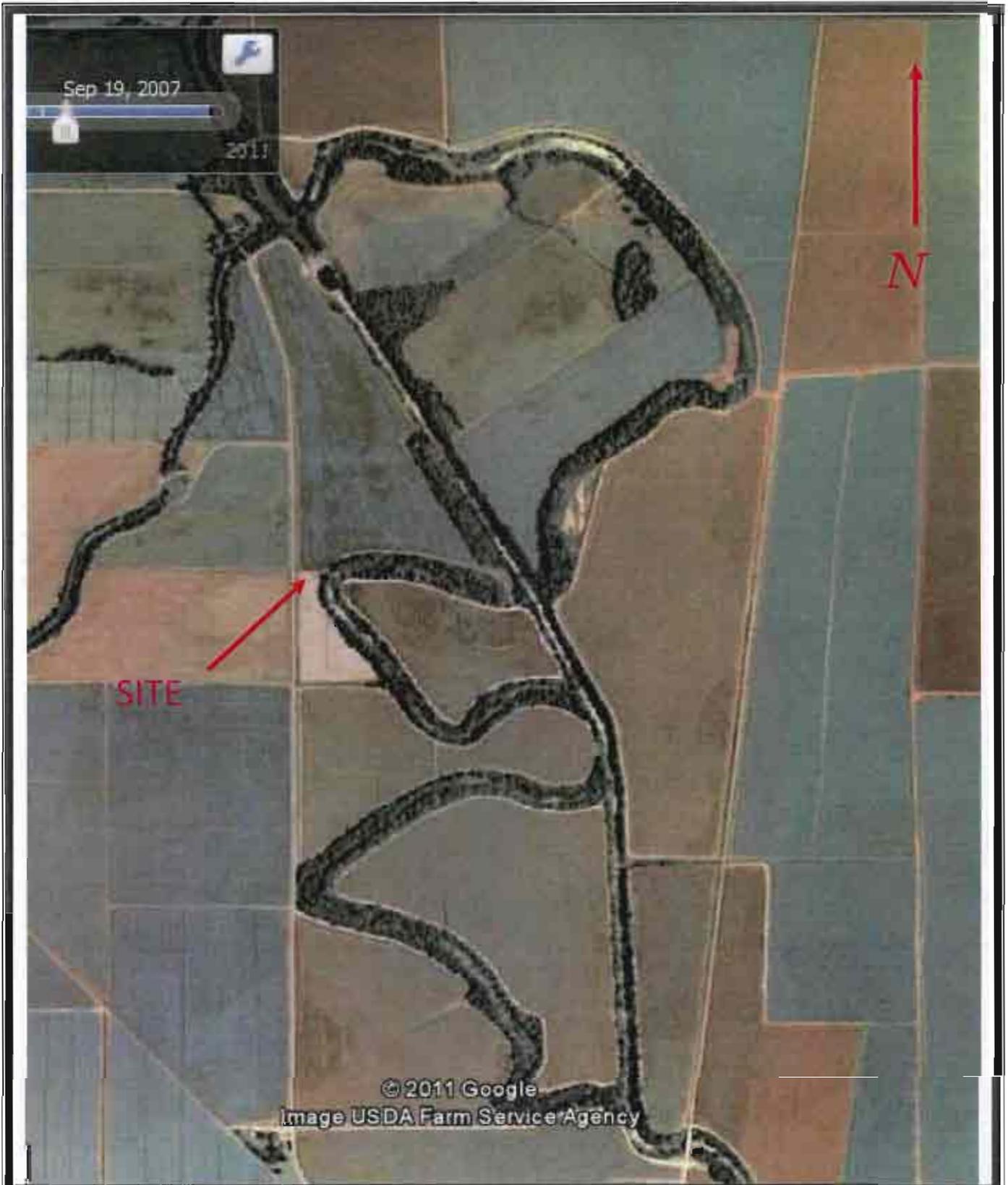


**Environmental Engineers, Inc.**

Subject:  
MSWIN 30213 Shaw Communications Facility  
Shaw, Bolivar County, Mississippi  
Environmental Engineers, Inc. Project No.: JSE01P1116

Appendix B  
2006 Aerial Photograph



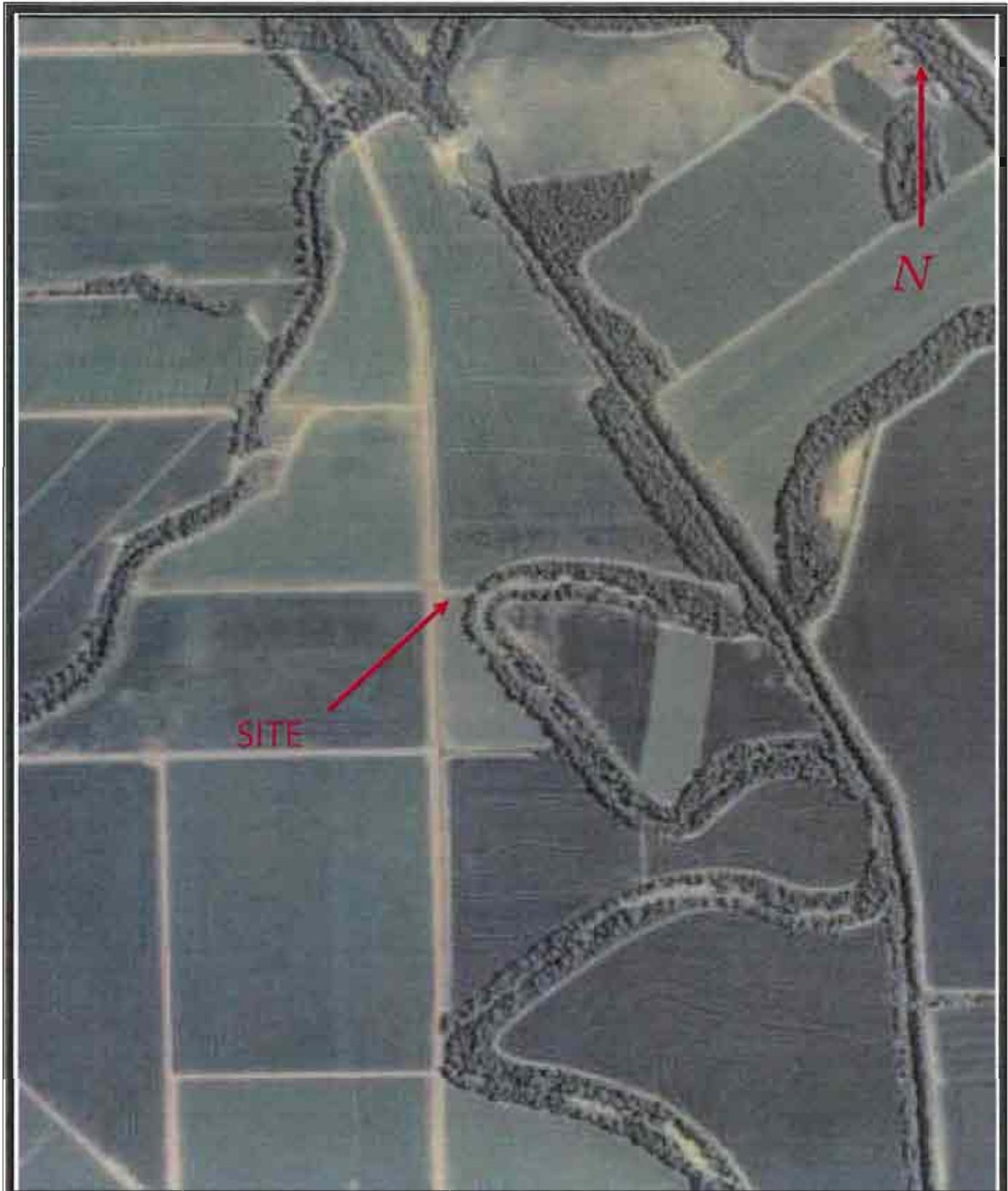


## Environmental Engineers, Inc.

Subject:  
MSWIN 30213 Shaw Communications Facility  
Shaw, Bolivar County, Mississippi  
Environmental Engineers, Inc. Project No.: JSE01P1116

Appendix B  
2007 Aerial Photograph





**Environmental Engineers, Inc.**

Subject:  
MSWIN 30213 Shaw Communications Facility  
Shaw, Bolivar County, Mississippi  
Environmental Engineers, Inc. Project No.: JSE01P1116

Appendix B  
2010 Aerial Photograph



# *FirstSearch Technology Corporation*

## **Environmental FirstSearch™ Report**

Target Property: MSWIN 30213 B SHAW FACILITY

**BITTER CREEK ROAD**

**SHAW MS 38773**

Job Number: JSE01P1116

### **PREPARED FOR:**

Environmental Engineers

11578 US Hwy 411

Odenville AL 35120

05-17-11



*Tel: (407) 265-8900*

*Fax: (407) 265-8904*

**Environmental FirstSearch  
Search Summary Report**

**Target Site: BITTER CREEK ROAD  
SHAW MS 38773**

**FirstSearch Summary**

Database	Sel	Updated	Radius	Site	1/8	1/4	1/2	1/2>	ZIP	TOTALS
NPL	Y	04-01-11	1.00	0	0	0	0	0	0	0
NPL Delisted	Y	04-01-11	0.50	0	0	0	0	-	0	0
CERCLIS	Y	03-31-11	0.50	0	0	0	0	-	0	0
NFRAP	Y	03-31-11	0.50	0	0	0	0	-	0	0
RCRA COR ACT	Y	03-10-11	1.00	0	0	0	0	0	0	0
RCRA TSD	Y	03-10-11	0.50	0	0	0	0	-	0	0
RCRA GEN	Y	03-10-11	0.25	0	0	0	-	-	0	0
RCRA NLR	Y	03-10-11	0.25	0	0	0	-	-	0	0
Federal Brownfield	Y	03-01-11	0.50	0	0	0	0	-	0	0
ERNS	Y	04-18-11	0.15	0	0	0	-	-	0	0
Tribal Lands	Y	01-01-96	1.00	0	0	0	0	0	1	1
State/Tribal Sites	Y	04-01-11	1.00	0	0	0	0	0	2	2
State Spills 90	Y	NA	0.25	0	0	0	-	-	0	0
State/Tribal SWL	Y	07-27-07	0.50	0	0	0	0	-	0	0
State/Tribal LUST	Y	03-01-11	0.50	0	0	0	0	-	0	0
State/Tribal UST/AST	Y	03-01-11	0.25	0	0	0	-	-	13	13
State/Tribal EC	Y	04-01-11	0.50	0	0	0	0	-	0	0
State/Tribal IC	Y	04-01-11	0.25	0	0	0	-	-	0	0
State/Tribal VCP	Y	04-01-11	0.50	0	0	0	0	-	0	0
State/Tribal Brownfields	Y	04-01-11	0.50	0	0	0	0	-	2	2
State Other	Y	01-01-07	0.25	0	0	0	-	-	0	0
F1 Map Coverage	Y	07-14-08	0.12	0	0	-	-	-	0	0
Federal IC/EC	Y	05-16-11	0.50	0	0	0	0	-	0	0
- TOTALS -				0	0	0	0	0	18	18

**Notice of Disclaimer**

Due to the limitations, constraints, inaccuracies and incompleteness of government information and computer mapping data currently available to FirstSearch Technology Corp., certain conventions have been utilized in preparing the locations of all federal, state and local agency sites residing in FirstSearch Technology Corp.'s databases. All EPA NPL and state landfill sites are depicted by a rectangle approximating their location and size. The boundaries of the rectangles represent the eastern and western most longitudes; the northern and southern most latitudes. As such, the mapped areas may exceed the actual areas and do not represent the actual boundaries of these properties. All other sites are depicted by a point representing their approximate address location and make no attempt to represent the actual areas of the associated property. Actual boundaries and locations of individual properties can be found in the files residing at the agency responsible for such information.

**Waiver of Liability**

Although FirstSearch Technology Corp. uses its best efforts to research the actual location of each site, FirstSearch Technology Corp. does not and can not warrant the accuracy of these sites with regard to exact location and size. All authorized users of FirstSearch Technology Corp.'s services proceeding are signifying an understanding of FirstSearch Technology Corp.'s searching and mapping conventions, and agree to waive any and all liability claims associated with search and map results showing incomplete and or inaccurate site locations.

***Environmental FirstSearch  
Site Information Report***

**Request Date:** 05-17-11  
**Requestor Name:** David R Carroll  
**Standard:** AAI

**Search Type:** COORD  
**Job Number:** JSE01P1116

**Target Site:** BITTER CREEK ROAD  
 SHAW MS 38773

*Demographics*

<b>Sites:</b> 18	<b>Non-Geocoded:</b> 18	<b>Population:</b> NA
<b>Radon:</b> NA		

*Site Location*

	<u>Degrees (Decimal)</u>	<u>Degrees (Min/Sec)</u>		<u>UTMs</u>
<b>Longitude:</b>	-90.866733	-90:52:0	<b>Easting:</b>	697900.64
<b>Latitude:</b>	33.618719	33:37:7	<b>Northing:</b>	3721728.755
<b>Elevation:</b>	128		<b>Zone:</b>	15

*Comment*

**Comment:**MSWIN 30213 B SHAW FACILITY

*Additional Requests/Services*

<b>Adjacent ZIP Codes:</b> 0 Mile(s)	<b>Services:</b>																																		
<table border="1"> <thead> <tr> <th>ZIP Code</th> <th>City Name</th> <th>ST</th> <th>Dist/Dir</th> <th>Sel</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	ZIP Code	City Name	ST	Dist/Dir	Sel						<table border="1"> <thead> <tr> <th></th> <th>Requested?</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>Fire Insurance Maps</td> <td>No</td> <td></td> </tr> <tr> <td>Aerial Photographs</td> <td>No</td> <td></td> </tr> <tr> <td>Historical Topos</td> <td>No</td> <td></td> </tr> <tr> <td>City Directories</td> <td>No</td> <td></td> </tr> <tr> <td>Title Search/Env Liens</td> <td>No</td> <td></td> </tr> <tr> <td>Municipal Reports</td> <td>No</td> <td></td> </tr> <tr> <td>Online Topos</td> <td>No</td> <td></td> </tr> </tbody> </table>		Requested?	Date	Fire Insurance Maps	No		Aerial Photographs	No		Historical Topos	No		City Directories	No		Title Search/Env Liens	No		Municipal Reports	No		Online Topos	No	
ZIP Code	City Name	ST	Dist/Dir	Sel																															
	Requested?	Date																																	
Fire Insurance Maps	No																																		
Aerial Photographs	No																																		
Historical Topos	No																																		
City Directories	No																																		
Title Search/Env Liens	No																																		
Municipal Reports	No																																		
Online Topos	No																																		

*Environmental FirstSearch  
Sites Summary Report*

**Target Property:** BITTER CREEK ROAD  
SHAW MS 38773

**JOB:** JSE01P1116  
MSWIN 30213 B SHAW FACILITY

**TOTAL:** 18      **GEOCODED:** 0      **NON GEOCODED:** 18      **SELECTED:** 0

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
	UST	MONTESI GROCERY 8208/FACILITY INACTIVE	STATE HIGHWAY 448 SHAW MS 38773	NON GC	N/A	N/A
	STATE	TRUNKLINE GAS COMPANY - SHAW MSST-1106-170/INACTIVE	UNKNOWN SHAW MS 38773	NON GC	N/A	N/A
	UST	BOLIVAR COUNTY DISTRICT 5 8910/FACILITY INACTIVE	WHITE OAK ST SHAW MS 38773	NON GC	N/A	N/A
	UST	CHOCTAW GROCERY 10493/FACILITY INACTIVE	STATE HIGHWAY 450 SHAW MS 38773	NON GC	N/A	N/A
	UST	ELLIS FARMS 756/FACILITY INACTIVE	RT 1 BOX 79 SHAW MS 38773	NON GC	N/A	N/A
	UST	KCM FARMS 913/FACILITY INACTIVE	RT 1 BOX 39 SHAW MS 38773	NON GC	N/A	N/A
	UST	LONNIE BYRD STORE 8203/FACILITY INACTIVE	STATE HIGHWAY 442 SHAW MS 38773	NON GC	N/A	N/A
	STATE	PANHANDLE EASTERN TRUNKLINE GA ST-668/INACTIVE	UNKNOWN SHAW MS 38773	NON GC	N/A	N/A
	UST	MARTIN GRAIN COMPANY 313/FACILITY INACTIVE	303 S WHITE OAK SHAW MS 38773	NON GC	N/A	N/A
	TRIBALLAND	BUREAU OF INDIAN AFFAIRS CONTA BIA-38773	UNKNOWN MS 38773	NON GC	N/A	N/A
	UST	SANDRONI FARMS INC 1039/FACILITY INACTIVE	P O BOX 427 SHAW MS 38773	NON GC	N/A	N/A
	UST	SHAW COMPRESSOR STATION 2092/FACILITY INACTIVE	TRUNKLINE P O BOX RD SHAW MS 38773	NON GC	N/A	N/A
	UST	SHAW GULF 321/FACILITY INACTIVE	UNITED STATES HIGHWAY 61 SHAW MS 38773	NON GC	N/A	N/A
	UST	SHAW MAINTENANCE DEPARTMENT 11251/FACILITY INACTIVE	WHITE OAK ST SHAW MS 38773	NON GC	N/A	N/A
	UST	TRICE GROCERY 8209/FACILITY INACTIVE	STATE HIGHWAY 442 SHAW MS 38773	NON GC	N/A	N/A
	BROWNFIELD	PANHANDLE EASTERN TRUNKLINE GA ST-668/INACTIVE	UNKNOWN SHAW MS 38773	NON GC	N/A	N/A
	BROWNFIELD	PANHANDLE EASTERN TRUNKLINE GA MSST-1106-170/INACTIVE	UNKNOWN SHAW MS 38773	NON GC	N/A	N/A
	UST	LYONS BROTHERS 856/FACILITY INACTIVE	RT. 1, BOX 76 SHAW MS 38773	NON GC	N/A	N/A

## Environmental FirstSearch Descriptions

**NPL: EPA NATIONAL PRIORITY LIST** - The National Priorities List is a list of the worst hazardous waste sites that have been identified by Superfund. Sites are only put on the list after they have been scored using the Hazard Ranking System (HRS), and have been subjected to public comment. Any site on the NPL is eligible for cleanup using Superfund Trust money.

A Superfund site is any land in the United States that has been contaminated by hazardous waste and identified by the Environmental Protection Agency (EPA) as a candidate for cleanup because it poses a risk to human health and/or the environment.

FINAL - Currently on the Final NPL

PROPOSED - Proposed for NPL

**NPL DELISTED: EPA NATIONAL PRIORITY LIST Subset** - Database of delisted NPL sites. The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

DELISTED - Deleted from the Final NPL

**CERCLIS: EPA COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY INFORMATION SYSTEM (CERCLIS)**- CERCLIS is a database of potential and confirmed hazardous waste sites at which the EPA Superfund program has some involvement. It contains sites that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL.

PART OF NPL- Site is part of NPL site

DELETED - Deleted from the Final NPL

FINAL - Currently on the Final NPL

NOT PROPOSED - Not on the NPL

NOT VALID - Not Valid Site or Incident

PROPOSED - Proposed for NPL

REMOVED - Removed from Proposed NPL

SCAN PLAN - Pre-proposal Site

WITHDRAWN - Withdrawn

**NFRAP: EPA COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY INFORMATION SYSTEM ARCHIVED SITES** - database of Archive designated CERCLA sites that, to the best of EPA's knowledge, assessment has been completed and has determined no further steps will be taken to list this site on the National Priorities List (NPL). This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

NFRAP - No Further Remedial Action Plan

P - Site is part of NPL site

D - Deleted from the Final NPL

F - Currently on the Final NPL

N - Not on the NPL

O - Not Valid Site or Incident

P - Proposed for NPL

R - Removed from Proposed NPL

S - Pre-proposal Site

W - Withdrawn

**RCRA COR ACT: EPA RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM SITES** - Database of hazardous waste information contained in the Resource Conservation and Recovery Act Information (RCRAInfo), a national program management and inventory system about hazardous waste handlers. In general, all generators, transporters, treaters, storers, and disposers of hazardous waste are required to provide information about their activities to state environmental agencies. These agencies, in turn pass on the information to regional and national EPA offices. This regulation is governed by the Resource Conservation and Recovery Act (RCRA), as amended by the Hazardous and Solid Waste Amendments of 1984.

RCRAInfo facilities that have reported violations and subject to corrective actions.

**RCRA TSD:** *EPA* RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM TREATMENT, STORAGE, and DISPOSAL FACILITIES. - Database of hazardous waste information contained in the Resource Conservation and Recovery Act Information (RCRAInfo), a national program management and inventory system about hazardous waste handlers. In general, all generators, transporters, treaters, storers, and disposers of hazardous waste are required to provide information about their activities to state environmental agencies. These agencies, in turn pass on the information to regional and national EPA offices. This regulation is governed by the Resource Conservation and Recovery Act (RCRA), as amended by the Hazardous and Solid Waste Amendments of 1984.

Facilities that treat, store, dispose, or incinerate hazardous waste.

**RCRA GEN:** *EPA/MA DEP/CT DEP* RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM GENERATORS - Database of hazardous waste information contained in the Resource Conservation and Recovery Act Information (RCRAInfo), a national program management and inventory system about hazardous waste handlers. In general, all generators, transporters, treaters, storers, and disposers of hazardous waste are required to provide information about their activities to state environmental agencies. These agencies, in turn pass on the information to regional and national EPA offices. This regulation is governed by the Resource Conservation and Recovery Act (RCRA), as amended by the Hazardous and Solid Waste Amendments of 1984.

Facilities that generate or transport hazardous waste or meet other RCRA requirements.

LGN - Large Quantity Generators

SGN - Small Quantity Generators

VGN - Conditionally Exempt Generator.

Included are RAATS (RCRA Administrative Action Tracking System) and CMEL (Compliance Monitoring & Enforcement List) facilities.

CONNECTICUT HAZARDOUS WASTE MANIFEST - Database of all shipments of hazardous waste within, into or from Connecticut. The data includes date of shipment, transporter and TSD info, and material shipped and quantity. This data is appended to the details of existing generator records.

MASSACHUSETTES HAZARDOUS WASTE GENERATOR - database of generators that are regulated under the MA DEP.

VQN-MA = generates less than 220 pounds or 27 gallons per month of hazardous waste or waste oil.

SQN-MA = generates 220 to 2,200 pounds or 27 to 270 gallons per month of waste oil.

LQG-MA = generates greater than 2,200 lbs of hazardous waste or waste oil per month.

**RCRA NLR:** *EPA* RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM SITES - Database of hazardous waste information contained in the Resource Conservation and Recovery Act Information (RCRAInfo), a national program management and inventory system about hazardous waste handlers. In general, all generators, transporters, treaters, storers, and disposers of hazardous waste are required to provide information about their activities to state environmental agencies. These agencies, in turn pass on the information to regional and national EPA offices. This regulation is governed by the Resource Conservation and Recovery Act (RCRA), as amended by the Hazardous and Solid Waste Amendments of 1984.

Facilities not currently classified by the EPA but are still included in the RCRAInfo database. Reasons for non classification:

Failure to report in a timely matter.

No longer in business.

No longer in business at the listed address.

No longer generating hazardous waste materials in quantities which require reporting.

**ERNS:** *EPA/NRC* EMERGENCY RESPONSE NOTIFICATION SYSTEM (ERNS) - Database of incidents reported to the National Response Center. These incidents include chemical spills, accidents involving chemicals (such as fires or explosions), oil spills, transportation accidents that involve oil or chemicals, releases of radioactive materials, sightings of oil sheens on bodies of water, terrorist incidents involving chemicals, incidents where illegally dumped chemicals have been found, and drills intended to prepare responders to handle these kinds of incidents. Data since January 2001 has been received from the National Response System database as the EPA no longer maintains this data.

**Tribal Lands:** *DOI/BIA* INDIAN LANDS OF THE UNITED STATES - Database of areas with boundaries established by treaty, statute, and (or) executive or court order, recognized by the Federal Government as territory in which American Indian tribes have primary governmental authority. The Indian Lands of the United States map layer shows areas of 640 acres or more, administered by the Bureau of Indian Affairs. Included are

Federally-administered lands within a reservation which may or may not be considered part of the reservation.  
BUREAU OF INDIAN AFFIARS CONTACT - Regional contact information for the Bureau of Indian Affairs offices.

**Tribal Lands:** *MS BCI* CHOCTAW INDIAN TRIBAL LANDS - database of Mississippi Choctaw Indian tribal land boundaries. The database includes information on boundary name and acreage.

**State/Tribal Sites:** *MDEQ* CERCLA/UNCONTROLLED SITES FILE LIST - database of information on both CERCLA sites as well as facilities defined as a site, facility, plant, or location where hazardous or toxic wastes have been released to the environment and, due to existing regulations, there is no Federal program which can handle the problem.

**State/Tribal SWL:** *MDEQ* SOLID WASTE LANDFILLS LIST - database of active and closed rubbish sites; active, inactive and closed municipal solid waste landfills; waste tire facilities and transfer stations.

**State/Tribal LUST:** *MDEQ* MISSISSIPPI UNDERGROUND STORAGE TANK RELEASE TANK SITES - database of all sites with either a suspected release or confirmed releases.

**State/Tribal UST/AST:** *MDEQ/EPA* MISSISSIPPI UNDERGROUND STORAGE TANK REGISTERED TANK SITES - database of underground storage tank facilities, tanks, and owners.  
TRIBAL LAND UNDERGROUND STORAGE TANKS - database of underground storage tanks that are reported to be on Native American lands.

**State/Tribal EC:** *MDEQ* BROWNFIELD INVENTORY Subset - database of CERCLA/uncontrolled sites file list that have engineering controls.

**State/Tribal IC:** *MDEQ* BROWNFIELD INVENTORY Subset - database of CERCLA/uncontrolled sites file list that have institutional controls.

**State/Tribal VCP:** *MDEQ* CERCLA/UNCONTROLLED SITES FILE LIST (SUBSET, VOLUNTARY EVALUATION PROGRAM)- Uncontrolled Site Voluntary Evaluation Program, which allows accepted parties the opportunity to participate in a program that will expedite the evaluation of site information. An uncontrolled site is a site, facility, plant, or location where hazardous or toxic wastes have been released into the environment and there is no federal environmental program which can handle the problem.

**State/Tribal Brownfields:** *MDEQ* BROWNFIELD INVENTORY - database of CERCLA/uncontrolled sites file list.

**RADON:** *NTIS* NATIONAL RADON DATABASE - EPA radon data from 1990-1991 national radon project collected for a variety of zip codes across the United States.

**State Other:** *US DOJ* NATIONAL CLANDESTINE LABORATORY REGISTER - Database of addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the U.S. Department of Justice ("the Department"), and the Department has not verified the entry and does not guarantee its accuracy. All sites that are included in this data set will have an id that starts with NCLR.

**FI Map Coverage:** *PROPRIETARY* FIRE INSURANCE MAP AVAILABILITY - Database of historical fire insurance map availability.

## Environmental FirstSearch Database Sources

**NPL:** *EPA* Environmental Protection Agency

*Updated quarterly*

**NPL DELISTED:** *EPA* Environmental Protection Agency

*Updated quarterly*

**CERCLIS:** *EPA* Environmental Protection Agency

*Updated quarterly*

**NFRAP:** *EPA* Environmental Protection Agency.

*Updated quarterly*

**RCRA COR ACT:** *EPA* Environmental Protection Agency.

*Updated quarterly*

**RCRA TSD:** *EPA* Environmental Protection Agency.

*Updated quarterly*

**RCRA GEN:** *EPA/MA DEP/CT DEP* Environmental Protection Agency, Massachusetts Department of Environmental Protection, Connecticut Department of Environmental Protection

*Updated quarterly*

**RCRA NLR:** *EPA* Environmental Protection Agency

*Updated quarterly*

**ERNS:** *EPA/NRC* Environmental Protection Agency

*Updated annually*

**Tribal Lands:** *DOI/BIA* United States Department of the Interior

*Updated annually*

**Tribal Lands:** *MS BCI* Mississippi Band of Choctaw Indians

*Updated when available*

**State/Tribal Sites:** *MDEQ* Mississippi Department for Environmental Quality

*Updated quarterly*

**State/Tribal SWL:** *MDEQ* Mississippi Department for Environmental Quality

*Updated annually*

**State/Tribal LUST:** *MDEQ* Mississippi Department for Environmental Quality, Office of Pollution Control, Groundwater and Solid Waste Division

*Updated quarterly*

**State/Tribal UST/AST:** *MDEQ/EPA* Mississippi Department for Environmental Quality

*Updated quarterly*

**State/Tribal EC:** *MDEQ* Mississippi Department for Environmental Quality

*Updated quarterly*

**State/Tribal IC:** *MDEQ* Mississippi Department for Environmental Quality

*Updated quarterly*

**State/Tribal VCP:** *MDEQ* Mississippi Department for Environmental Quality

*Updated quarterly*

**State/Tribal Brownfields:** *MDEQ* Mississippi Department for Environmental Quality

*Updated quarterly*

**RADON:** *NTIS* Environmental Protection Agency, National Technical Information Services

*Updated periodically*

**State Other:** *US DOJ* U.S. Department of Justice

*Updated when available*

**FI Map Coverage:** *PROPRIETARY* Library of Congress  
Catalogue of Maps Published by Sanborn Mapping and Geographic Information Service in February 1988®  
ProQuest  
Other internally produced datasets

*Updated quarterly*

*Environmental FirstSearch*  
*Street Name Report for Streets within .25 Mile(s) of Target Property*

**Target Property:** BITTER CREEK ROAD  
SHAW MS 38773

**JOB:** JSE01P1116  
MSWIN 30213 B SHAW FACILITY

<b>Street Name</b>	<b>Dist/Dir</b>	<b>Street Name</b>	<b>Dist/Dir</b>
Bitter Creek Rd	0.03 SW		



## **HISTORICAL FIRE INSURANCE MAPS**

**NO MAPS AVAILABLE**

**05-17-11**

**JSE01P1116**

**BITTER CREEK ROAD**

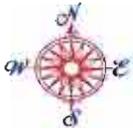
**SHAW MS 38773**

A search of FirstSearch Technology Corporation's proprietary database of historical fire insurance map availability confirmed that there are NO MAPS AVAILABLE for the Subject Location as shown above.

FirstSearch Technology Corporation's proprietary database of historical fire insurance map availability represents abstracted information from the Sanborn® Map Company obtained through online access to the U.S. Library of Congress via local libraries.

### Copyright Policy & Disclaimer

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# Environmental FirstSearch

1 Mile Radius

ASTM Map: NPL, RCRCOR, STATE Sites



**BITTER CREEK ROAD , SHAW MS 38773**



Source: 2005 U.S. Census TIGER Files

Target Site (Latitude: 33.618719 Longitude: -90.866733) .....

Identified Site, Multiple Sites, Receptor .....

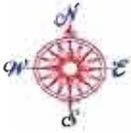
NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste

Triballand.....

Railroads .....

Black Rings Represent 1/4 Mile Radius; Red Ring Represents 300 ft. Radius



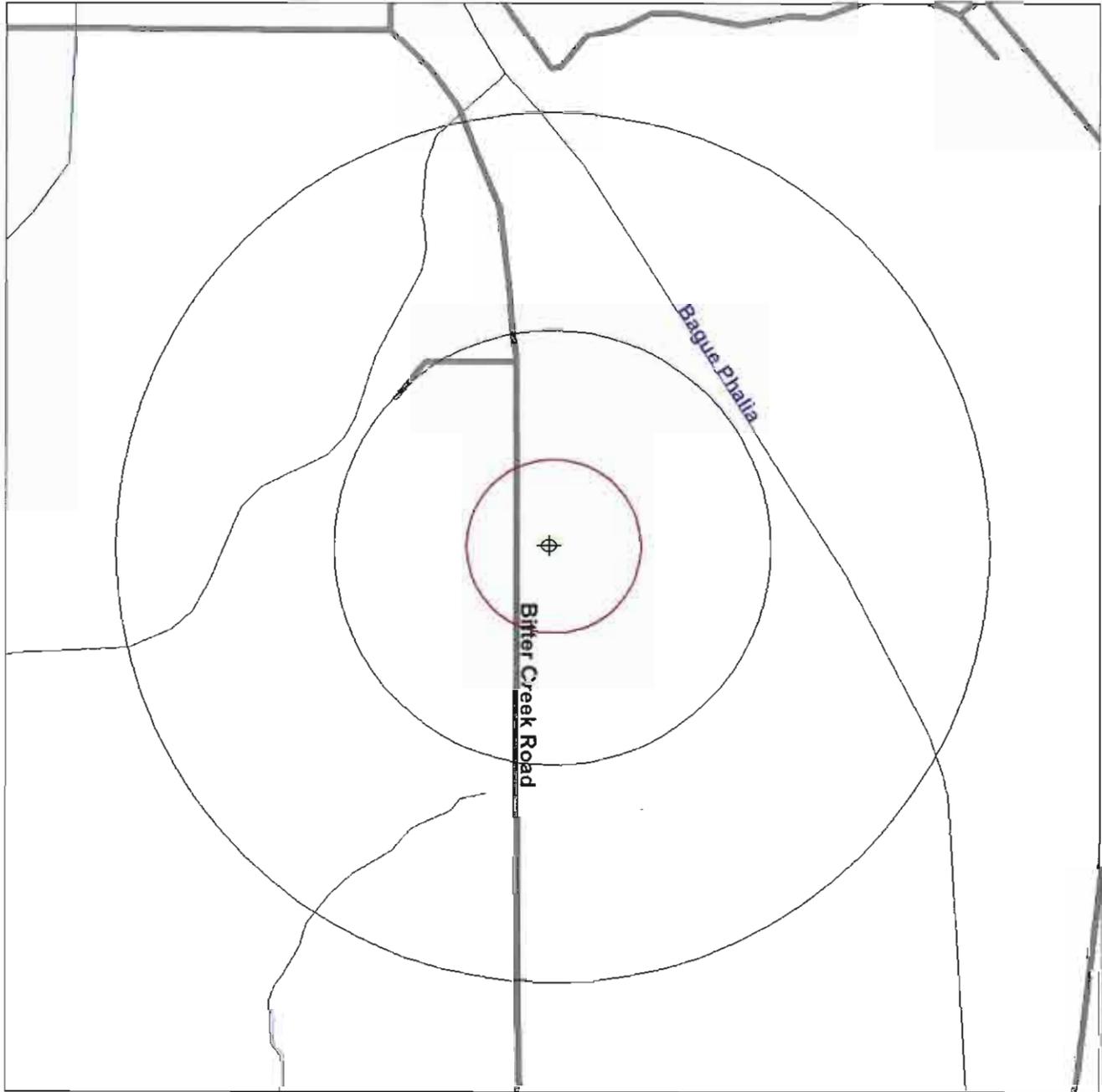


# Environmental FirstSearch

.5 Mile Radius  
ASTM Map: CERCLIS, RCRATSD, LUST, SWL



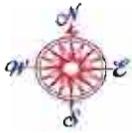
**BITTER CREEK ROAD , SHAW MS 38773**



Source: 2005 U.S. Census TIGER Files

- Target Site (Latitude: 33.618719 Longitude: -90.866733) .....
- Identified Site, Multiple Sites, Receptor .....
- NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste .....
- Triballand.....
- Railroads .....
- Black Rings Represent 1/4 Mile Radius; Red Ring Represents 500 ft. Radius



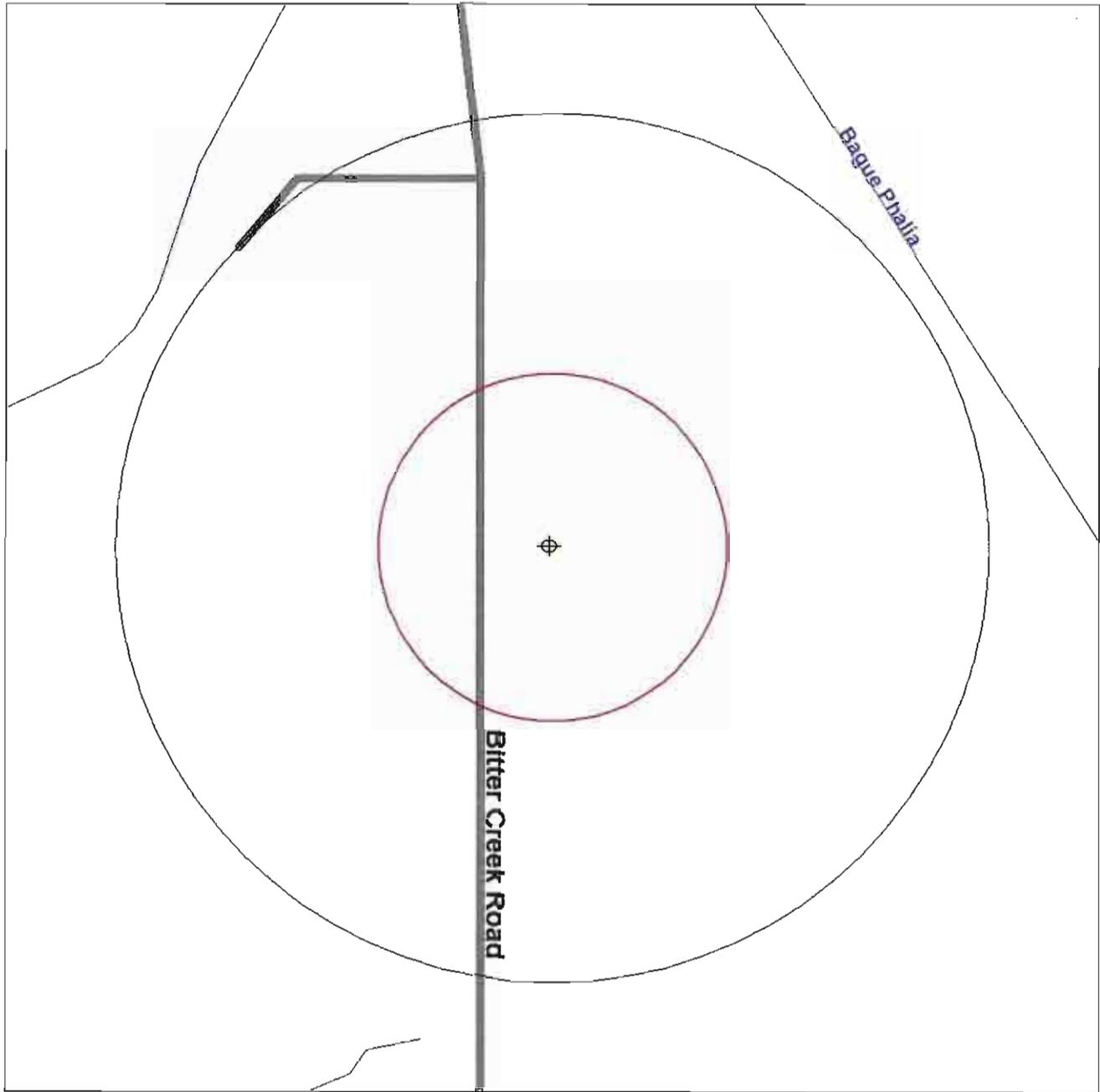


# Environmental FirstSearch

.25 Mile Radius  
ASTM Map: RCRAGEN, ERNS, UST, FED IC/EC, METH LABS

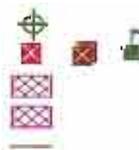


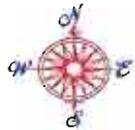
## BITTER CREEK ROAD , SHAW MS 38773



Source: 2005 U.S. Census TIGER Files

- Target Site (Latitude: 33.618719 Longitude: -90.866733) .....
- Identified Site, Multiple Sites, Receptor .....
- NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste .....
- Tribaland .....
- Railroads .....
- Black Rings Represent 1/4 Mile Radius; Red Ring Represents 500 ft. Radius



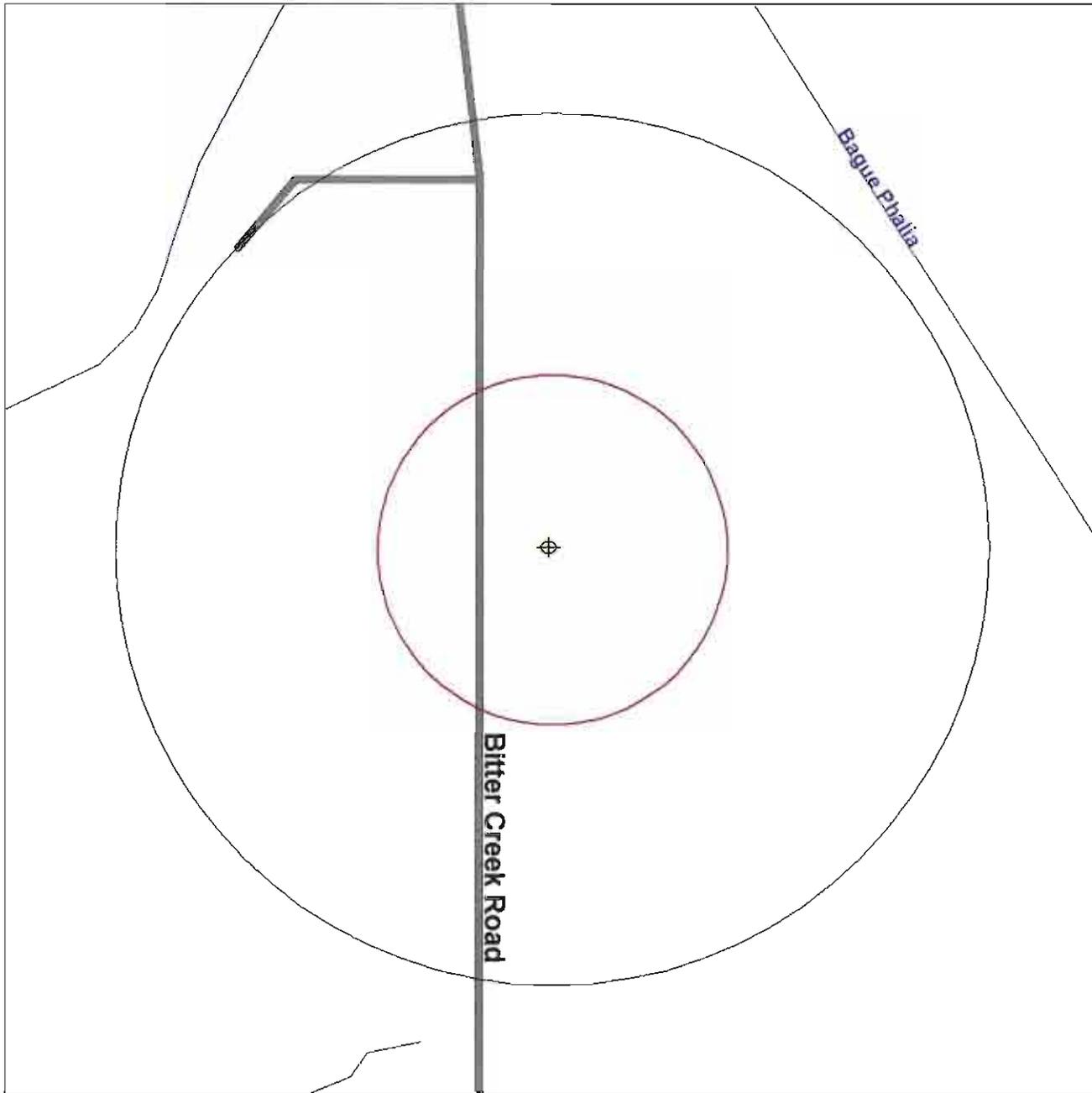


# Environmental FirstSearch

.25 Mile Radius  
Non-ASTM Map: No Sites Found

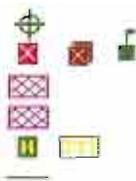


## BITTER CREEK ROAD , SHAW MS 38773



Source: 2015 U.S. Census TIGER Files

- Target Site (Latitude: 33.618719 Longitude: -90.866733) .....
- Identified Site, Multiple Sites, Receptor .....
- NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste .....
- Triballand .....
- National Historic Sites and Landmark Sites .....
- Railroads .....
- Black Rings Represent 1/4 Mile Radius: Red Ring Represents 500 Ft. Radius



**GENERAL CONDITIONS**  
Environmental Services

**Payment Terms** -- Payment is due upon receipt of our invoice. If payment is not received within 30 days from the invoice date, Client agrees to pay a finance charge on the principal amount of the past due account of one and one-half percent per month, and all cost of collection, including attorney fees. If one and one-half percent per month exceeds the maximum allowed by law, the charge shall automatically be reduced to the maximum legally allowable.

In the event Client requests termination of the services prior to completion, a termination charge in an amount not to exceed thirty percent of all charges incurred through the date services are stopped plus any shutdown costs may, at the discretion of Environmental Engineers, Inc. (Consultant) be made. If during the execution of the services, Consultant is required to stop operations as a result of changes in the scope of services such as requests by the Client or requirements of third parties, additional charges will be applicable.

**General Nature Of Environmental Services** -- The Consultant's basic services comprise the specific environmental activities set forth in Proposal. The consultant will access the site pursuant to the scope of services set forth in Proposal. Consultant agrees to strive to perform the services set forth in the Agreement in accordance with generally accepted professional practices. In the same or similar localities, related to the nature of the work accomplished, at the time the services are performed. Consultant makes no warranties whatsoever, whether express or implied, regarding the services to be performed by it hereunder. Consultant's services are intended to solely benefit the client.

**Scope of the Consultant's Basic Services** -- The environmental services shall consist of those tasks enumerated in the Proposal to this Agreement. The scope of work outlined in the Proposal represents a minimum program at this time. As the results of the investigation become known, other tests and/or sampling may be recommended to the Client for written approval as Additional Services. In general, an increased frequency of sampling and testing will improve the opinions reached in the Consultant's report. Because geologic and soil formations are inherently random, variable, and indeterminate in nature, the professional services rendered by the Consultant and opinions provided with respect to such services under this agreement (including opinions regarding potential cleanup costs), are not guaranteed to be a representation of actual site conditions or contamination or costs, which are also subject to change with time as a result of natural or man-made processes. Consultant will provide Client with a written ("Report") concerning the services performed. The Report will present such findings and conclusions as the Consultant may reasonably make with the information gathered in accordance with this Agreement. In preparing the Report, Consultant may review and interpret certain information provided to it by third parties, including government authorities, registries of deeds, testing laboratories, and other entities, Consultant will not conduct an independent evaluation of the accuracy or completeness of such information, and shall not be responsible for any errors or omissions contained in such information. The report and other instruments of services are prepared for, and made available for the sole use of, the Client, and the contents thereof may not be used or relied upon by any other person without the express written consent and authorization of the Consultant.

**Additional Services of the Consultant** -- If mutually agreed in writing by the Client and the Consultant, the Consultant shall perform or obtain the services of others to perform the activities enumerated in the Proposal to this Agreement. Additional Services are not included as part of Basic Services and will be paid by the Client as provided in Payment Terms.

**Services Excluded by the Consultant** -- Services not expressly set forth in writing as Basic or Additional Services and listed in the Proposal to this Agreement are excluded from the scope of the Consultant's services, and the Consultant assumes no duty to the Client to perform such services. The services to be performed by the Consultant shall not include an analysis or determination by the Consultant as to whether the Client is in compliance with federal, state, or local laws, statutes, ordinances, or regulations. The Consultant's services shall not include directly or indirectly storing, arranging for or actually transporting, disposing, treating or monitoring hazardous substances, hazardous materials, hazardous wastes or hazardous oils. The Consultant's services shall not include an independent analysis of work conducted and information provided by independent laboratories or other independent contractors retained by the Consultant concerning the Consultant's services provided to the Client. Unless otherwise specifically listed in the Proposal, the Consultant's services exclude testing for the presence of asbestos, mold, polychlorinated biphenyls (PCBs), radon gas, any airborne pollutants, underground mines or sinkholes.

**Responsibilities of the Client** -- The Client shall provide all information in the possession, custody, or control which relates to the site, its present and prior uses, or to activities at the site which may bear upon the services of the Consultant under this Agreement, including, but not limited to, the following: (i) a legal description of the site, including boundary lines and a site plan; (ii) identification of the location of utilities, underground tanks, and other structures and the routing thereof at the site, including available plans of the site; and (iii) a description of activities which were conducted at the site at any time by the Client or by any person or entity which would relate to the services provided by the Consultant. The Client shall be fully responsible for obtaining the necessary authorizations to allow the Consultant, its agents, subcontractors and representatives, to have access to the site and buildings thereon at reasonable times throughout contract performance by the Consultant. Consultant will take reasonable precautions to minimize damage to the site from use of equipment, but unavoidable damage or alteration may occur and Client hereby releases and indemnifies Consultant and agrees to assume responsibility for such unavoidable damage or alteration. To the extent required by law, Client agrees to assume responsibility for personal and property damages due to Consultant's interference with subterranean structures such as pipes, tanks, and utility lines that are not correctly shown on the documents provided above by Client to Consultant. The services, information, and other data required by the Section to be furnished by the Client shall be at the Client's expense, and the Consultant may rely upon all data furnished by the Client and the accuracy and completeness thereof.

Client understands and agrees that the discovery of certain conditions by Consultant may result in economic loss to Client/property owner and/or regulatory oversight. Client agrees that Consultant is not responsible or liable for any loss resulting from a decrease in the market value of the property described in the Proposal. Client further agrees that Consultant is not responsible or liable for any costs associated with corrective or remedial actions necessary at the site. Unless included in Proposal, Client also agrees that Consultant is not responsible for disclosures, notifications, or reports that may be required to be made to third parties (including appropriate government authorities).

**Consultant's Insurance** -- Consultant shall obtain, if reasonably available, (1) statutory Workers' Compensation/Employers Liability coverage; (2) Commercial General Liability; (3) Automobile Liability; and (4) Professional Liability insurance coverage in policy amounts of not less than \$1,000,000. Consultant agrees to issue certificates of insurance evidencing such policies upon written request.

**Limitation of Responsibility** -- CLIENT HEREBY AGREES THAT TO THE FULLEST EXTENT PERMITTED BY LAW THE CONSULTANT'S TOTAL LIABILITY TO CLIENT FOR ANY AND ALL INJURIES, CLAIMS, LOSSES, EXPENSES, OR DAMAGES WHATSOEVER ARISING OUT OF OR IN ANY WAY RELATING TO THE PROJECT, THE SITE, OR THIS AGREEMENT FROM ANY CAUSE OR CAUSES INCLUDING BUT NOT LIMITED TO THE CONSULTANT'S NEGLIGENCE, ERRORS, OMISSIONS, STRICT LIABILITY, BREACH OF CONTRACT, OR BREACH OF WARRANTY SHALL NOT EXCEED THE GREATER OF THE TOTAL AMOUNT PAID BY THE CLIENT FOR THE SERVICES OF THE CONSULTANT UNDER THIS CONTRACT OR \$50,000.00, WHICHEVER IS GREATER. If Client prefers to have higher limits on professional liability, Consultant agrees to increase the limits up to a maximum of \$1,000,000.00 upon Client's written request at the time of accepting Proposal provided that Client agrees to pay an additional consideration of four percent of our total fee, or \$1,000.00, whichever is greater. Client and the Consultant agree that to the fullest extent permitted by law the Consultant shall not be liable to Client for any special, indirect or consequential damages whatsoever, whether caused by the Consultant's negligence, errors, omissions, strict liability, breach of contract, breach of warranty or other cause or causes whatsoever. To the fullest extent permitted by law, Client agrees to defend, indemnify, and hold Consultant, its agents, subcontractors, and employees harmless from and against any and all claims, defense costs, including attorney's fees, damages, and other liabilities arising out of or in any way related to the services to be performed by Consultant hereunder. Consultant's reports or recommendations concerning this Agreement of Consultant's presence on the project property, provided that Client shall not indemnify Consultant against liability for damages to the extent caused by the negligence or intentional misconduct of Consultant, its agents, subcontractors, or employees.

**Disputes Resolution** -- All claims, disputes, and other matters in controversy between Consultant and Client arising out of or in any way related to this Agreement (other than a result of Client's failure to pay amounts due hereunder) will be submitted to "alternate dispute resolution" (ADR) such as mediation and/or arbitration, before and as a condition precedent to other remedies provided by law. If a dispute at law arises related to the services provided under this Agreement and that dispute requires litigation as provided above, then: (a) Client assents to personal jurisdiction in the State of Consultant's principal place of business; (b) The claim will be brought and tried in judicial jurisdiction of the court of the county where Consultant's principal place of business is located and Client waives the right to remove the action to any other county or judicial jurisdiction; and (c) The prevailing party will be entitled to recovery of all reasonable costs incurred, including staff time, court costs, attorney's fees, and expert witness fees, and other claim-related expenses.

**Discovery of Unanticipated Pollutants Risks** -- If, while performing the services, pollutants are discovered that pose unanticipated risks, it is hereby agreed that the scope of services, schedule, and the estimated project cost will be reconsidered and that this contract shall immediately become subject to re-negotiation or termination. In the event that the Agreement is terminated because of the discovery of pollutants posing unanticipated risks, it is agreed that Consultant shall be paid for total charges for labor performed and reimbursable charges incurred to the date of termination of this Agreement, including, if necessary, any additional labor or reimbursable charges incurred in denobilizing. Client also agrees that the discovery of unanticipated hazardous substances may make it necessary for Consultant to take immediate measures to protect health and safety. Consultant agrees to notify Client as soon as practically possible should unanticipated hazardous substances or suspected hazardous substances be encountered. Client authorizes Consultant to take measures that in Consultant's sole judgment are justified to preserve and protect the health and safety of Consultant's personnel and the public. Client agrees to compensate Consultant for the additional cost of working to protect employees' and the public's health and safety.

**Disposition of Samples and Equipment** -- No samples of unpolluted soil and rock will be kept by Consultant longer than thirty (30) days after submission of the final report unless agreed otherwise in the event that samples and/or materials contain or are suspected to contain substances or constituents hazardous or detrimental to health, safety, or the environment as defined by federal, state, or local statutes, regulations, or ordinances. Consultant will, after completion of testing (1) return such samples and materials to client, or (2) reach an agreement in writing to have such samples and materials properly disposed in accordance with applicable laws. Client agrees to pay all costs associated with the storage, transport, and disposal of samples and materials. Client recognizes and agrees that Consultant is acting as a bailee and at no time assumes title to said waste. All laboratory and field equipment contaminated in performing the required services will be cleaned at Client's expense. Contaminated consumables will be disposed of and replaced at Client's expense. Equipment (including tools) which cannot be reasonably decontaminated shall become the property and responsibility of Client. All such equipment shall be delivered to Client or disposed of in a manner similar to that indicated for hazardous samples. Client agrees to pay the fair market value of any such equipment which cannot reasonably be decontaminated.

**Reports, Recommendations, and Ownership of Documents** -- Reports, recommendations, and other materials resulting from Consultant's efforts are intended solely for purposes of this Agreement; any reuse by Client or others for purposes outside of this Agreement or any failure to follow Consultant's recommendations, without Consultant's written permission, shall be at the user's sole risk. Client will furnish such reports, data, studies, plans, specifications, documents, and other information deemed necessary by Consultant for proper performance of its services. Consultant may rely upon Client-provided documents in performing the services required under this Agreement; however, Consultant assumes no responsibility or liability for their accuracy. Client-provided documents will remain property of Client. All reports, field notes, calculations, estimates, and other documents which are prepared, as instruments of service, shall remain Consultant's property and Consultant shall retain copyrights to these materials. Consultant will retain all pertinent records relating to services performed for a period of six years following submission of a report during which period the records will be made available to Client at all reasonable times.

**Termination** -- This Agreement may be terminated by either party by seven (7) days written notice in the event of substantial failure to perform in accordance with the terms of the Agreement by the other party through no fault of the terminating party. If this Agreement is terminated, it is agreed that Consultant shall be paid for total charges for labor performed to the termination notice date, plus reimbursable charges.

**Force Majeure** -- Neither party to this Agreement will be liable to the other party for delays in performing the services, nor for the direct or indirect cost resulting from such delays that may result from labor strikes, riots, war, acts of governmental authorities, extraordinary weather conditions or other natural catastrophes, or any cause beyond the reasonable control or contemplation of either party.

**Severability and Survival** -- Any element of this Agreement later held to violate a law shall be deemed void, and all remaining provisions shall continue in force. However, Client and Consultant will in good faith attempt to replace any invalid or unenforceable provision with one that is valid and enforceable, and which comes as close as possible to expressing the intent of the original provision. All terms and conditions of this Agreement allocating liability between Client and Consultant shall survive the completion of the services hereunder and the termination of this Agreement.

**Assignment** -- Consultant shall not delegate any duties, nor assign any rights or claims under this Agreement, nor sub any part of the work authorized, without prior consent of Client.

# Appendix L



## ENVIRONMENTAL ENGINEERS, INC.

11578 US Highway 411, Odenville, Alabama 35120

*Environmental, Remediation, and Geological Consultants*

May 25, 2011

Mr. Will Hooker, County Administrator  
Bolivar County  
P.O. Box 698  
Cleveland, MS 38732

Subject:  
**MSWIN 30213 B Shaw Communications Facility**  
**Shaw, Bolivar County, Mississippi**  
Environmental Engineers, Inc. Project No.: JSE01P1116

Dear Mr. Hooker:

Pursuant to the requirements of the March 2005 Nationwide Programmatic Agreement for Review of Effects on Historic Properties for Certain Undertakings Approved by the Federal Communications Commission (NPA) and Section 106 of the National Historic Preservation Act (NHPA) we are requesting comment on behalf of Towers of Mississippi, the State of Mississippi, and the Federal Emergency Management Agency regarding impact to historical or cultural sites listed on, or eligible for listing on the National Register of Historic Places (NRHP) by construction of a wireless communications tower in Bolivar County, Mississippi.

The site is depicted on the United States Geological Survey 7.5-minute Topographic Quadrangle "Shaw, Mississippi," dated 1967. The site is located in the southwest  $\frac{1}{4}$  or the southwest  $\frac{1}{4}$  of Section 31, Township 21 North, Range 6 West, Bolivar County, Mississippi, at latitude 33° 37' 7.391" north and longitude 90° 52' 0.239" west (Figure 1). The site consists of a proposed 100-foot by 100-foot lease area and proposed access road located off of Bitter Creek Road near Shaw, Mississippi. The site consists of a level agricultural field. The access road follows an existing farm road eastward then turns south to the site center. Proposed activities consist of construction of a 450-foot self-supporting communications tower with associated equipment compound, enclosing the compound in a fence, placement of support equipment within the compound, and covering the compound with gravel. I have included the portion of the USGS topographic map depicting the proposed site location for your review.

Environmental Engineers, Inc. appreciates the opportunity to provide this information. Please reference the Environmental Engineers, Inc. project number (JSE01P1116) in correspondence regarding this site. Please provide comment within thirty days of the date of this letter. Thank you for your time and assistance and we look forward to your response. Please call me at (205) 629-3868 or email me at [dcarroll@envciv.com](mailto:dcarroll@envciv.com) if you have any questions or comments. You can also send a response to us via facsimile at (877) 847-3060.

Sincerely,  
ENVIRONMENTAL ENGINEERS, INC.

David Carroll  
Staff Geologist

Attachments: Site Location Map

**Phone: (205) 629-3868 • Fax: (877) 847-3060**

7010 0290 0003 5723 8023

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Restricted Delivery Fee (Endorsement Required)		
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Sent by Mr. Will Hooker, County Administrator  
 Street, Apt. No., or PO Box No.  
 City, State, ZIP+4

PS Form 3808, August 2005 See Reverse for Instructions

**SENDER: COMPLETE THIS SECTION**

- Complete Items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:  
 Mr. Will Hooker, County Admin.  
 Bolivar County  
 P.O. Box 698  
 Cleveland, MS 38132

2. Article Number  
 (Transfer from service label)

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  
 Deja Carter  Agent  
 Addressee  
 B. Received by (Printed Name)  
 C. Date of Delivery

D. Is delivery address different from item 1?  Yes  
 If YES, enter delivery address below:  No

3. Service Type  
 Certified Mail  Express Mail  
 Registered  Return Receipt for Merchandise  
 Insured Mail  C.O.D.

4. Restricted Delivery? (Extra Fee)  Yes

7010 0290 0003 5723 8023

MAY 21 2011

RECEIVED

NOTICE

Towers of Mississippi, the State of Mississippi, and the Federal Emergency Management Agency (FEMA) are requesting comment regarding construction of a 450-foot self-supporting, communication tower to be located off of Bitter Creek Road, Shaw, Bolivar County, Mississippi, 36773 at latitude 33° 37' 07.391" north and longitude 90° 52' 0.239" west. We are also requesting comment, in accordance with Section 106 of the National Historic Preservation Act (NHPA), regarding potential impacts to historical or archaeological properties listed on, or eligible for listing on the National Register of Historic Places (NRHP), by the proposed communications tower. All comments should be submitted within 30 days of the publication of this notice referencing project JSE01P1316 and sent to the attention of Mr. Henry Fisher, Environmental Engineers, Inc., 11578 U.S. Highway 411, Odenville, AL 35120. Mr. Fisher may also be reached via email at towz.ahnd@envdvi.com, via telephone at (205) 628-3888, or via facsimile at (877) 847-3060. May 18, 2011

PROOF OF PUBLICATION

STATE OF MISSISSIPPI, COUNTY OF BOLIVAR.

Personally appeared before me, the undersigned authority in and for the County of Bolivar, State of Mississippi, MARK S. WILLIAMS, Publisher of THE BOLIVAR COMMERCIAL, daily newspaper and published in the City of Cleveland, in said County and State who, on oath, deposes and says that The Bolivar Commercial is a newspaper as defined and prescribed in Senate Bill No. 203 enacted at the regular session of the Mississippi Legislature of 1948, amending Section 1958 of the Miss. Code of 1942, and that the publication of which the instrument annexed is a true copy, was published in said paper, to wit:

- In Volume 95 No. 22 Dated May 18 20 11
In Volume No. Dated 20

and that said newspaper "has been established for at least twelve months next prior to the first publication" of this notice.

[Signature] Publisher

Sworn to and subscribed before me this the

day of May, 20 11

[Signature]

My Commission expires

Publishers's Fee \$

