

## **IDENTIFICATION OF HISTORIC PROPERTIES & ASSESSMENT OF DIRECT EFFECTS**

A review of records held by the Illinois State Museum indicated that no previously recorded archaeological sites are located within the immediate vicinity of the APE for direct effects. In addition, no previous cultural resource surveys have been conducted within one-half mile of the proposed undertaking.

Archaeological fieldwork, performed primarily to determine the presence of previously unrecorded historic resources within the APE for direct effects, was conducted under the direction of Virginia Janssen on November 22, 2010. The project area consists of a fallow agricultural field located at the top of a small rise.

Both surface inspection and the excavation of subsurface tests were used to investigate the potential for unrecorded historic resources within the APE for direct effects (Figure 3). A single pedestrian transect was used to investigate each of the two proposed easements. Three pedestrian transects, spaced approximately 4 m apart, were utilized to investigate exposed surfaces within the tower compound area. A representative view of the ground surface exposure within the APE for direct effects is presented in Photograph 8.

Ten 30 x 30 cm subsurface tests were used to examine the APE for direct effects. Soils from these tests were dry-screened through 6 mm hardware cloth. Three shovel tests, spaced approximately 7 m apart were used to examine the tower compound area. Four shovel tests, spaced approximately 12 m apart, were used to examine the proposed access drive. Finally, three shovel tests, also spaced approximately 12 m apart, were used to examine the proposed utility easement. The same soil profile was encountered in all ten shovel tests exhibiting 0-20 cm of yellowish brown (Munsell 10YR 5/4) silty clay loam over 30 cm of brown (7.5YR 5/3) silty clay.

No archaeological features were noted on the surface, and no cultural material indicative of an archaeological site was recovered from the subsurface shovel tests. Therefore, it is the opinion of the principal investigator that no NRHP-eligible archeological site will be affected by this undertaking.

Nevertheless, it should be noted that ground disturbing activity should be halted when it is reasonable to believe that an archaeological site has been encountered which will be affected by this undertaking, and that the State Historic Preservation Office be notified of these finds. Also, if human burials or human remains are encountered during ground disturbance, it is imperative that local law enforcement, as well as the district medical examiner and the State Historic Preservation Office, is notified prior to resuming work.

## **IDENTIFICATION OF HISTORIC PROPERTIES & ASSESSMENT OF VISUAL EFFECTS**

According to a review of records held by the Illinois State Museum, and a review of the Illinois Historic Preservation Agency's online Historic Architecture and Archaeological Resources Geographic Information System (HAARGIS) indicates no previously documented historic properties are located within the one-half mile APE for visual effects. Likewise, a review of the online National Register of Historic Places (NRHP) listings indicate no NRHP-listed resources are located within the one-half mile visual APE. In addition, no historic properties have been identified through comments of Indian Tribes, local governments, or members of the public.

## PHOTOGRAPHS

The following photographs of the project site are presented herein:

1	View of the proposed tower location, facing north.
2	View of the proposed tower location, facing south.
3	View of the proposed tower location, facing east.
4	View of the proposed tower location, facing west.
5	View of the proposed access easement from the proposed tower compound, facing south.
6	View of the proposed access easement from Crane Road, facing north.
7	View of the proposed utility easement from Crane Road, facing north.
8	Close up view of representative ground surface exposure within the APE for direct effects.

Site photographs were recorded on November 22, 2010 using a lense focal length of 36 mm.





Photo 1 - View of the proposed tower location, facing north.



Photo 2 - View of the proposed tower location, facing south.





Photo 3 - View of the proposed tower location, facing east.



Photo 4 - View of the proposed tower location, facing west.





Photo 5 - View of the proposed access easement from the proposed tower compound, facing south.



Photo 6 - View of the proposed access easement from Crane Road, facing north.





Photo 7 - View of the proposed utility easement from Crane Road, facing north.



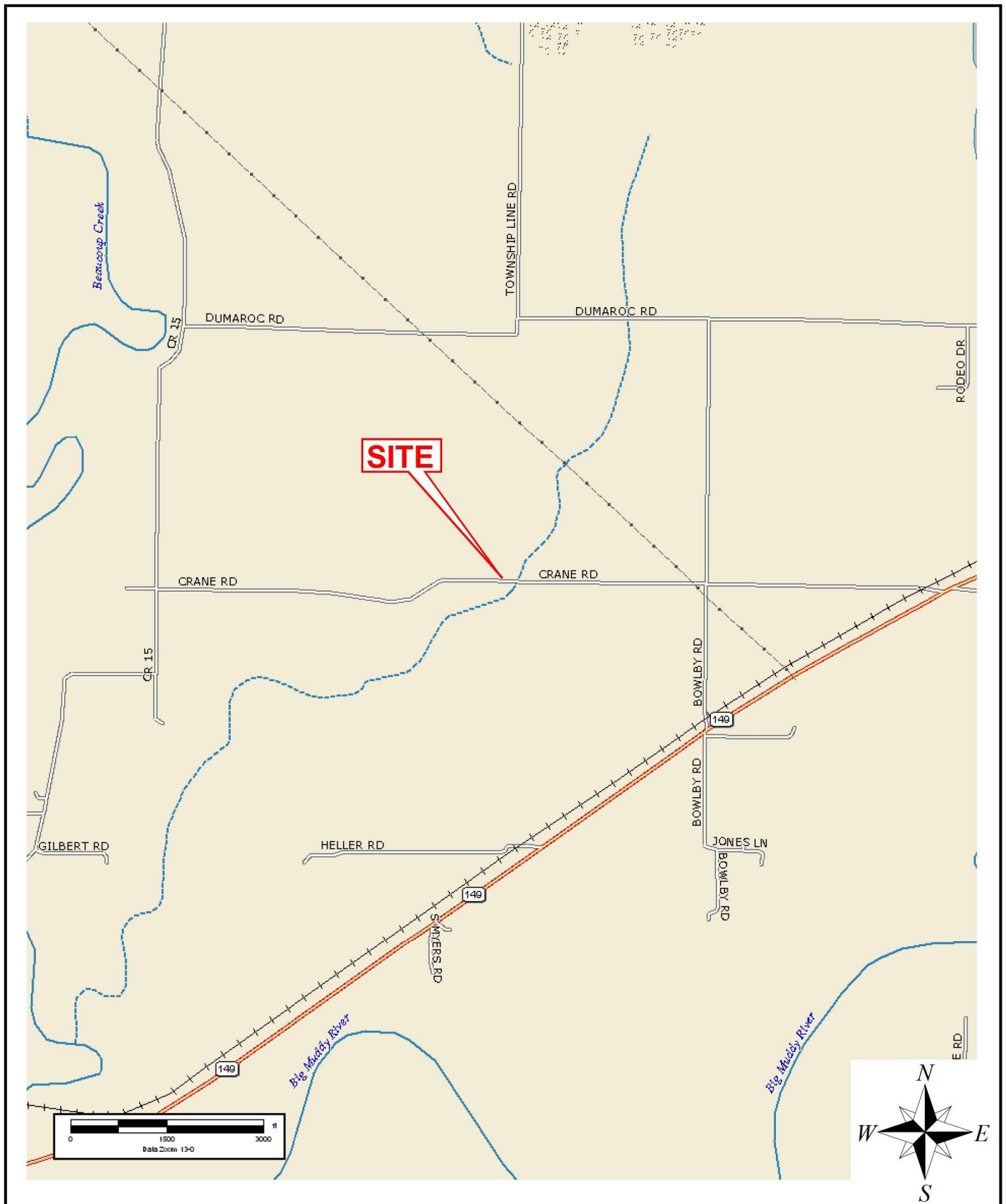
Photo 8 - Close up view of representative ground surface exposure within the APE for direct effects.



## FIGURES

The following figures of the project site are presented herein:

<b>Figure No.</b>	<b><u>Figure Title</u></b>
1	Site Location Map
2	Site Plan
3	Archaeological Investigation Plan
4	U.S.G.S. Topographic Map, 7.5 Minute Series w/ 1 /2 Mile Visual APE
5	2004 Aerial Photograph w/ 1/2 Mile Visual APE



**SITE LOCATION MAP**



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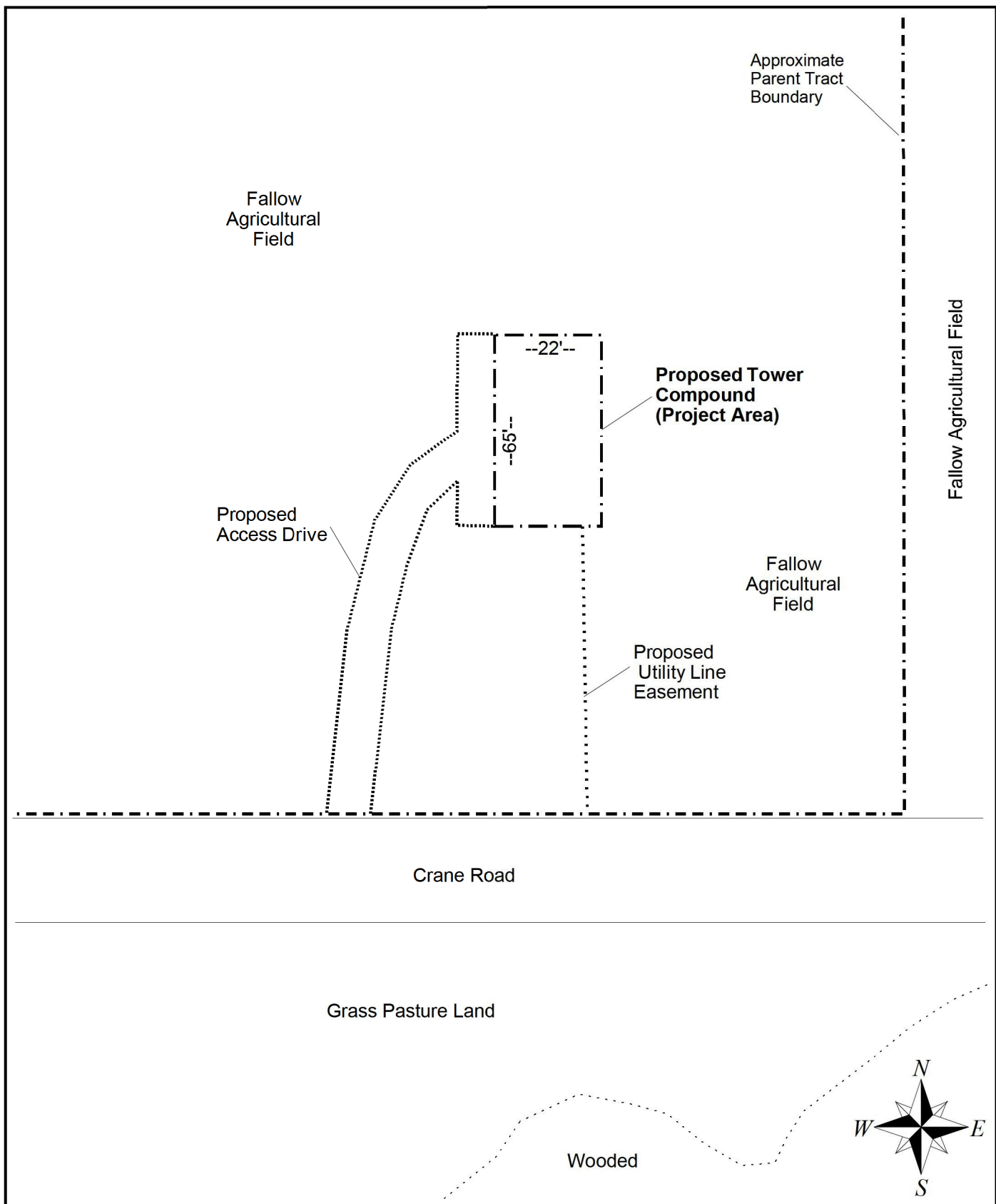
[www.DynamicEnvironmental.com](http://www.DynamicEnvironmental.com)

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WIBI Murphysboro Tower Site  
Jackson County, Illinois**

Figure No.: 1

Date: 12/01/10

DEA No.: 21011002



## SITE PLAN



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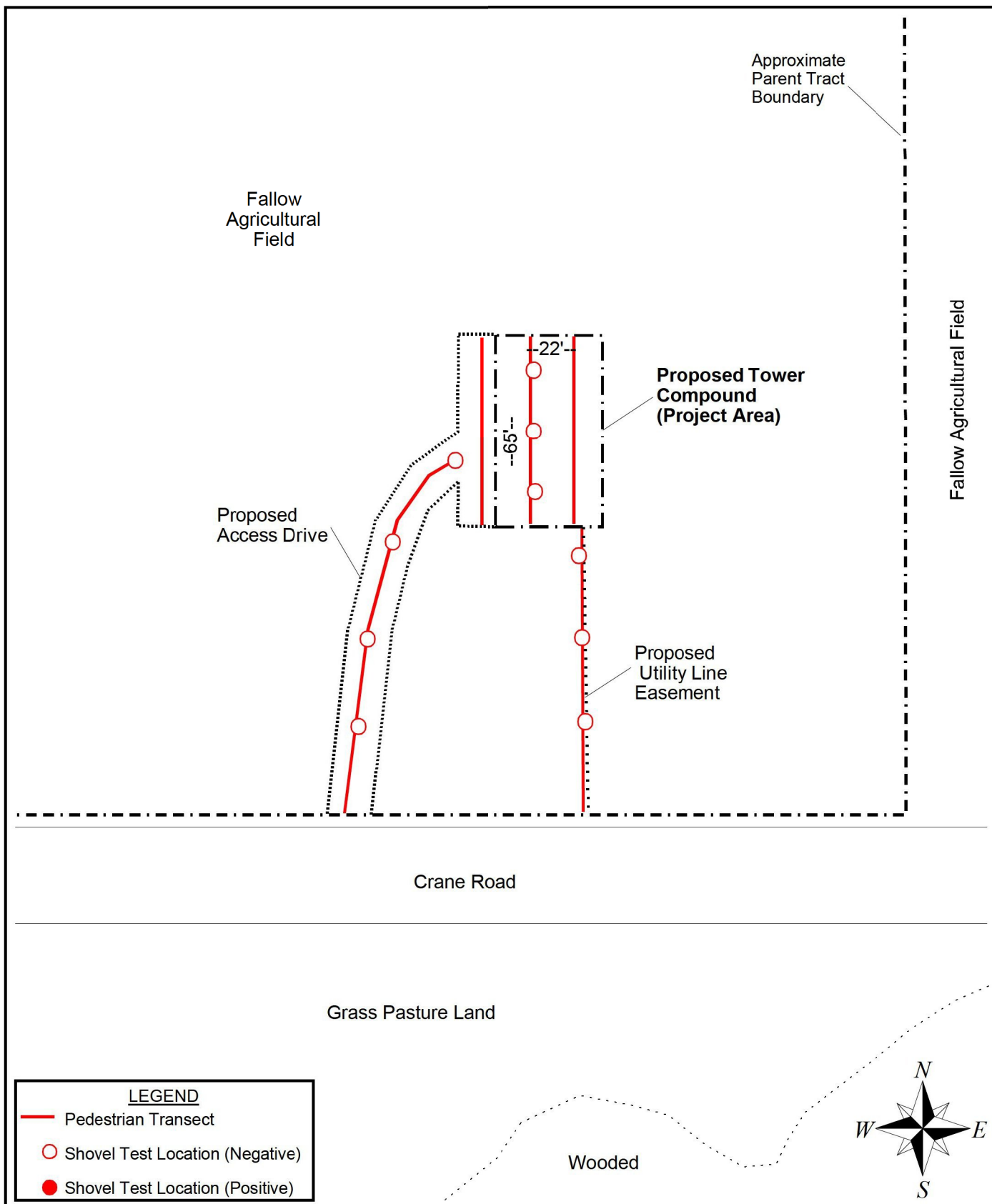
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Figure No.: 2

Date: 12/01/10

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## ARCHAEOLOGICAL INVESTIGATION PLAN



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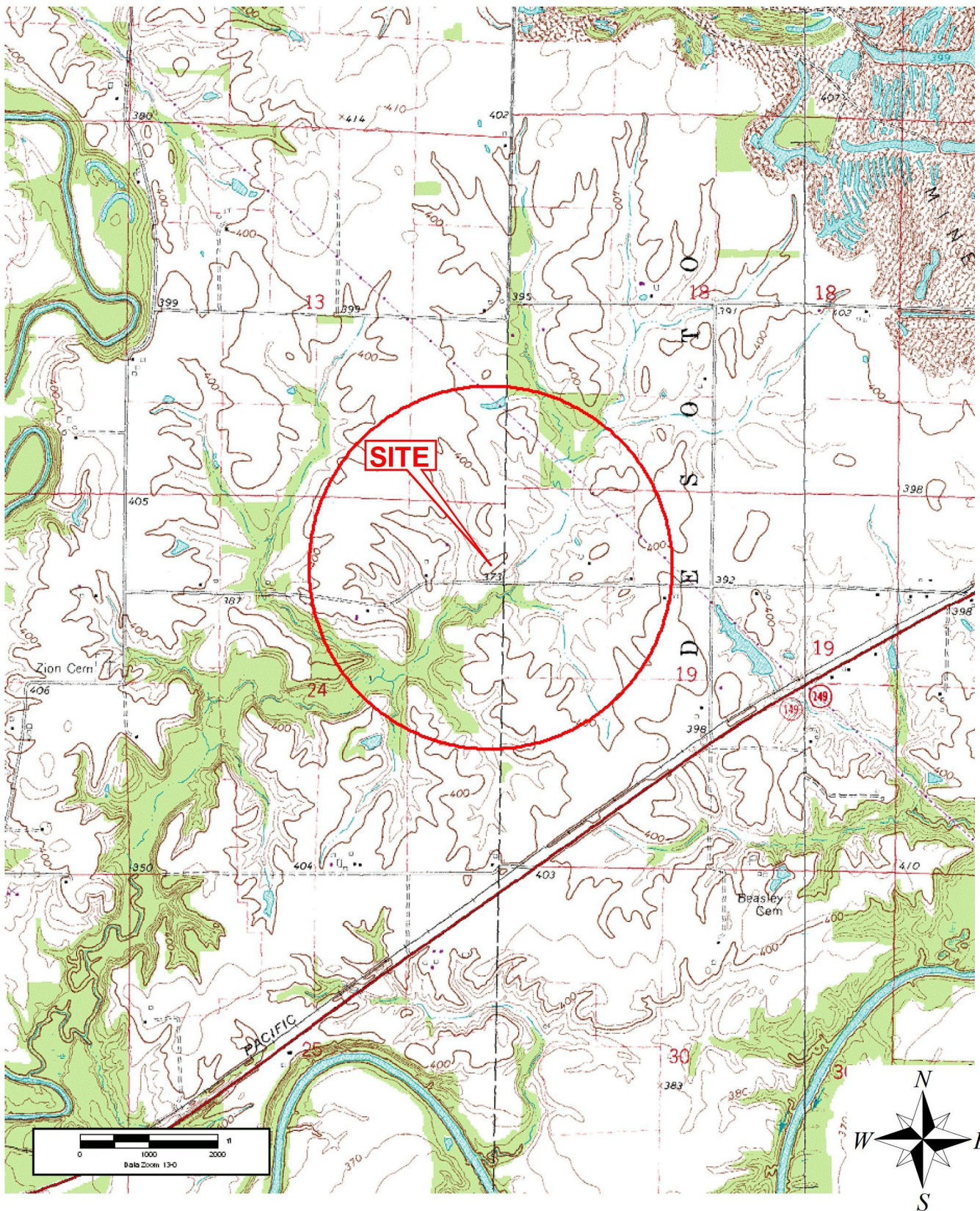
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Figure No.: 3

Date: 12/01/10

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U.S.G.S. Topographic Map - Murphysboro IL Quadrangle - ½ Mile Visual APE



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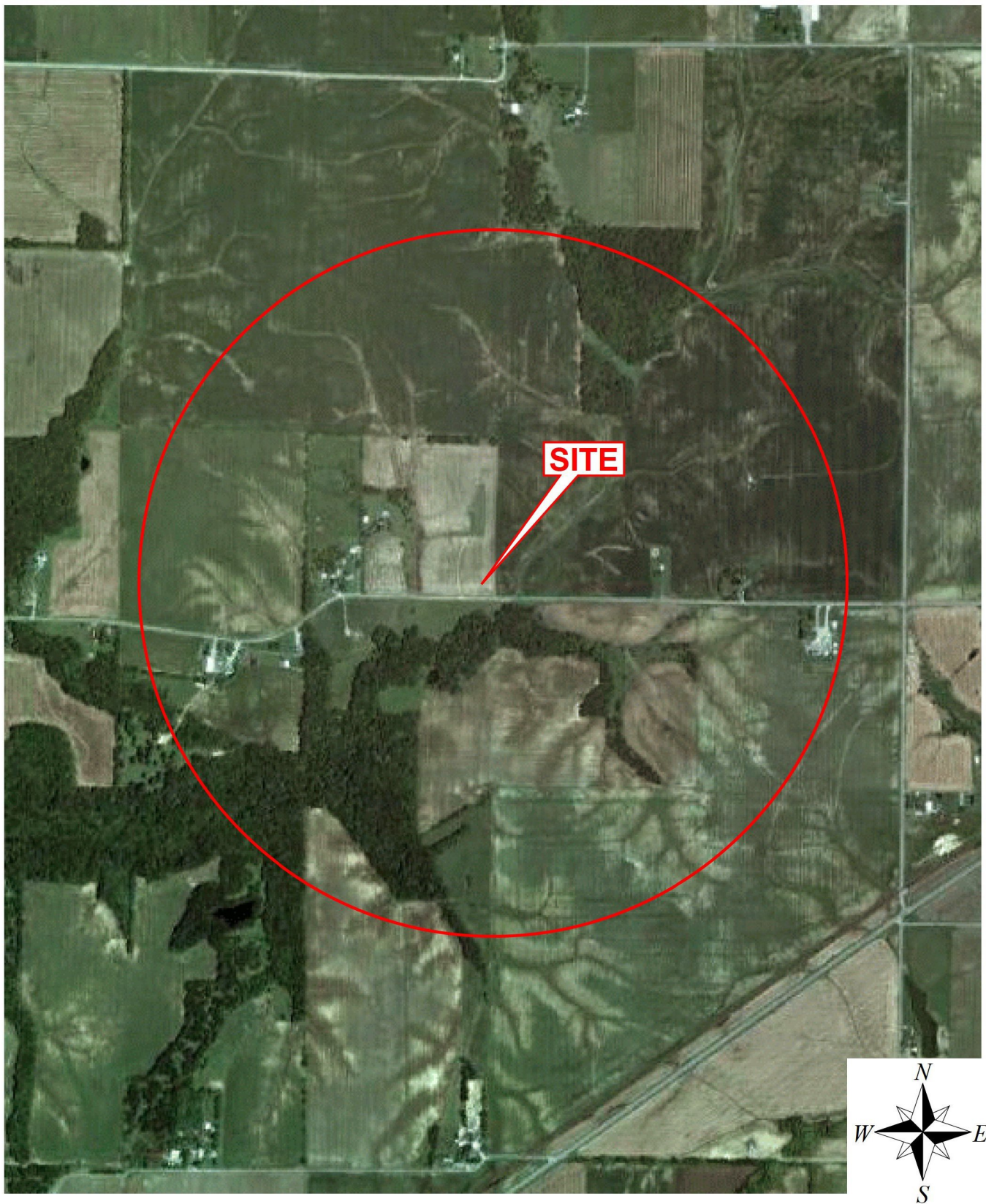
Section 106 Assessment  
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Jackson County, Illinois

Figure No.: 4

Date: 12/01/10

DEA No.: 21011002





2004 Aerial Photograph w/ 1/2 Mile Visual APE



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Date: 12/01/10

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- Attach this card to the back of the mailpiece, or on the front if space permits.

## 1. Article Addressed to:

Ms. Kim Jumper  
Shawnee Tribe  
Historic Preservation  
Department  
29 South 69A Highway  
Miami, OK 74355

## 2. Article Number

(Transfer from service label)

7010 0290 0003 0791 5578

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540

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X

☐ Agent☐ Addressee

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City, State, ZIP+4

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74355-0002

PS Form 3800, August 2006

See Reverse for Instructions



SHAWNEE TRIBE  
HISTORIC PRESERVATION DEPARTMENT  
29 SOUTH HIGHWAY 69A  
MIAMI, OKLAHOMA 74354  
918-542-2441 PHONE 918-542-9915 FAX

### FACSIMILE COVER PAGE

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TO: <u>Virginia</u>	FROM: <u>Kim Jumper</u>
FIRM/AGENCY: <u>DEA</u>	DATE/TIME: <u>2/11/11</u>
FAX NUMBER: <u>478-745-7415</u>	NO. OF PAGES, INCLUDING COVER: <u>1</u>
PHONE NUMBER: _____	MEMO: <u>70480</u>

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**Message:** The Shawnee Tribe's Tribal Historic Preservation Officer concurs that no known historic properties will be negatively impacted by construction of this tower site (see memo line above for TCNS number/s). The Shawnee Tribe's archives do not reveal any issues of concern at this tower location. In the event that archaeological materials are encountered later during construction, use, or maintenance of this tower location, please re-notify us at that time as we would like to resume consultation under such a circumstance.

The Shawnee Tribe's Environmental and Natural Resources Department takes this opportunity to express its concerns that telecommunication towers can have a potentially destructive impact on bats and migratory birds, particularly those that migrate at night, including species listed as threatened and endangered by both states and the federal government, as well as other species. The Shawnee Tribe suggests that this tower be constructed in accordance with the guidelines available from the US Fish and Wildlife Service to reduce the adverse effects of telecommunications towers on migratory birds; these guidelines may be found at: [www.fws.gov/migratorybirds/issues/towers/comtow.html](http://www.fws.gov/migratorybirds/issues/towers/comtow.html).

The Shawnee Tribe's Environmental and Natural Resources Department is further concerned that the proliferation of cell towers may play a role in honey bee Colony Collapse Disorder. We acknowledge that cell phone technology may not be to blame, especially by itself, as other potential causative factors for the decline have been noted, such as insecticides, tracheal and varroa mites [an immunosuppressant], other parasites, pesticides used on hives to eliminate parasites, genetically modified plants, *Nosema* fungus, Israeli Acute Paralysis Virus (IAPV) perhaps introduced from Australia in 2004, Kashmir Bee Virus [KBV], climate change, and drought.

Finally, the Shawnee Tribe's Environmental and Natural Resources Department requests that cell tower sites, whenever remotely feasible, be restored to native vegetation. In all cases, habitat restoration can protect a variety of species, even in small project areas. The large number of cell tower sites provides an as yet unrealized opportunity for region-wide habitat restoration. The Tribe urges the cell phone industry to provide a model for native habitat restoration for other industries.

Please do not hesitate to call us for additional comment.

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