



Missouri Department of dnr.mo.gov

NATURAL RESOURCES

Michael L. Parson, Governor

Carol S. Comer, Director

July 9, 2018

Mr. Brian Holderness
Ameren Services
One Ameren Plaza
1901 Chouteau Avenue, MC602
St. Louis, MO 63166

Re: **SHPO Project No.: 042-MLT-16/010-CM-03** – Ameren Project – Zachary to Ottumwa Segment, Missouri.

Dear Mr. Holderness:

Thank you for submitting information on the above referenced project for our review pursuant to Section 106 of the National Historic Preservation Act (P.L. 89-665, as amended) and the Advisory Council on Historic Preservation's regulation 36 CFR Part 800, which requires identification and evaluation of cultural resources.

We have reviewed the May 2018 report entitled *Phase I Cultural Resource Survey for the Mark Twain Transmission Line Project, Zachary to Ottumwa Segment, Adair and Schuyler Counties, Missouri* by Kathryn Drennan Warner and Jessica Bernstetter. Based on this review it is evident that a thorough and adequate monitoring of the cultural resources has been conducted of the project area. We concur with the investigator's recommendation that there will be **no historic properties affected** and, therefore, we have no objection to the completion of project activities.

Please be advised that, should project plans change, information documenting the revisions should be submitted to this office for further review. In the event that cultural materials are encountered during further project activities, all construction should be halted, and this office notified as soon as possible in order to determine the appropriate course of action.

If you have any questions, please write Heather Gibb at State Historic Preservation Office, P.O. Box 176, Jefferson City, Missouri 65102 or call 573/751-7862.



Recycled paper

Mr. Holderness
Page 2

Please be sure to include the SHPO Log Number (042-MLT-16/010-CM-03) on all future correspondence or inquiries relating to this project.

Sincerely,

STATE HISTORIC PRESERVATION OFFICE

A handwritten signature in cursive script that reads "Toni M. Prawl". The signature is written in black ink and is positioned below the typed name.

Toni M. Prawl, Ph.D.
Director and Deputy State
Historic Preservation Officer

TMP:hg

c Ms. Kimberly D. Bose, FERC

**Phase I Cultural Resource Survey for the Mark Twain
Transmission Line Project, Zachary to Ottumwa Segment,
Adair and Schuyler Counties, Missouri**

Prepared for:
Ameren Services
One Ameren Plaza
1901 Chouteau Avenue, MC602
St. Louis, Missouri 63166

Prepared by:
Kathryn Drennan Warner, MA
Jessica Bernstetter, MA

Wood Environment & Infrastructure Solutions
212 East McCarty Street
Jefferson City, Missouri 65101



May 2018

SECTION 106 SURVEY MEMO

Missouri Department of Natural Resources
Historic Preservation Program
P.O. Box 176
Jefferson City, Missouri 65102-0176
(573) 751-7858

1) HPP 106 Project # 042-MLP-16

REVIEWER: _____ Date: _____ Accepted _____ Rejected _____ SHPO USE ONLY
--

Locational Information and Survey Conditions

- 2) County (s): Adair and Schuyler
- 3) Quadrangles: Kirksville, MO 1979, Greentop, MO 1979, Connelsville, MO 1979, Queen City, MO 1979, Livonia, MO 1979, and Coatsville, MO 1979 7.5-minute series.
- 4) Project Type/Title: Phase I cultural resource survey of for the Mark Twain Transmission Line Project, Zachary to Ottumwa Segment, Adair and Schuyler Counties, Missouri.
- 5) Funding and/or Permitting Federal/State Agencies: USACE
- 6) Section: see Figures 7) Township: 62N, 63N, 64N, 65N, 66N, 67N 8) Range: 15W, 15W, 15W, 16W, 16W, 16W
- 9) U.T.M.: NAD 83, Zone 15 North; Northern end of segment: E531079, N4493390; Southern end of segment: E534052, N4444904
- 10) Project Description: Systematic shovel testing and pedestrian survey within a 100' buffer of identified WOUS resources for the proposed construction of an electrical transmission line, Adair and Schuyler Counties, Missouri.
- 11) Topography: Dissected uplands, drainages.
- 12) Soils: Armstrong loam and clay loam, Adco silt loam, Gara fine sandy loam, and Winnegan loam.
- 13) Drainage: Fabius River to Mississippi River.
- 14) Land Use/Ground Cover (Include % Visibility): Grasses/vegetated pasture and drainages (0%) and corn/soybean stubble (variable at 30-90%).
- 15) Survey Limitations: None.

Historical Background Information

- 16) HPP – Cultural Resource Inventory X 17) Archaeological Survey of Missouri _____ 18) GIS Database X
- 19) Historic Plats/Atlases/Sources: The 1876 Harrison and Warner An Illustrated Historical Atlas of Adair County, Missouri, the 1898 George A. Ogle and Company's Standard Atlas of Adair County, Missouri, the 1878 Edwards Brothers of Missouri Illustrated Historical Atlas of Schuyler County, Missouri, and the 1898 North West Publishing Company's Plat Book of Schuyler County, Missouri, were reviewed for the presence of historic structures or cultural features.
- 20) Previously Reported Sites: No previously recorded sites are located within the WOUS resources. Sites within a one-mile radius of the project corridor include: (23SK) 7, 36, 41, 42, 45, 70.
- 21) Previous Surveys: There are several previously reported surveys within the project corridor or a one-mile radius: AD-33, AD-35, AD-45, AD-48, AD-52, AD-72, AD-74, AD-81, PT-15, SK-7.
- 22) Regional Sources Utilized: None
- 23) Master Plan Recommendations: N/A
- 24) Investigation Techniques: Shovel testing at 20-m intervals and pedestrian transects at 5-meter intervals.
- 25) Time Expended: approximately 256 person hours
- 26) Sites Located: None.
- 27) Cultural Materials: None 28) Curated at: NA
- 29) Collection Techniques: NA
- 30) Area Surveyed (Acres & Square Meters): Approximately 83.3 acres; 337,115 square meters

31) Results of Investigation and Recommendations:

- a) No Cultural Resources Located.
- b) No National Register Eligible Cultural Resources Located.
- c) National Register Eligible Cultural Resources Located.
- d) Resources May Meet Requirements For National Register Eligibility; Phase II Testing Is Recommended.

e) Comments: See attached pages.

Cultural Resource Management Contractor Information:

32) Archaeological Contractor: Wood Environment & Infrastructure Solutions

33) Address/Phone: 212 E. McCarty Street, Jefferson City, MO 65101 / (573) 659-0615

34) Surveyor(s): John Bybee, Tim Reynolds, Cortney Black, Matt Carpenter, Donna Daugherty, Vince Warner, MA, and Dawn Bradley, MS

35) Survey Date(s): February 22; March 8-10; May 1-4, 7-9, 16, 17, 2018

36) Report Completed By: Kathryn Drennan Warner, MA and Jessica Bernstetter, MA 37) Date: May 29, 2018

38) Submitted By (Signature and Title):  Kathryn Drennan Warner, MA, Archaeologist

39) Attachment Check List: (Required)

- 1) Relevant Portion of USGS 7.5' Topographic Quadrangle Map(s) Showing Project Location And Any Recorded Sites;
- 2) Project Map(s) Depicting Survey Limits And, When Applicable, Approximate Site Limits, And Concentrations Of Cultural Materials;
- 3) Site Form(s): One Copy of Each Form;
- 4) All Relevant Project Correspondence;
- 5) Additional Information Sheets As Necessary.

40) Address Of Owner/Agent/Agency To Whom SHPO Comment Should Be Mailed:

<u>Brian Holderness</u>	<u>Kathryn Drennan Warner, MA</u>
<u>Ameren Services</u>	<u>Wood</u>
<u>One Ameren Plaza, 1901 Chouteau Avenue, MC602</u>	<u>2121 E. McCarty Street</u>
<u>St. Louis, MO 63166</u>	<u>Jefferson City, MO 65101</u>

41) Contact Person: Brian Holderness, Environmental Specialist 2) Phone Number: (314)-554-3574

<u>REVIEWER COMMENTS</u>

Comments:

Archaeologists from Wood Environment & Infrastructure Solutions (Wood) are in the process of conducting a phase I cultural resource survey for the construction of the proposed Mark Twain Transmission Line Project for Ameren Services in Adair and Schuyler Counties, Missouri. The proposed transmission line will be located immediately adjacent to an existing transmission line within the same Right-of-Way (ROW). This report focuses on the Zachary to Ottumwa segment of the project, located from Structure 801 to Structure 991 (**Figure 1**). This segment is located in Adair and Schuyler Counties within Township 62N, Range 15W; Township 63N, Range 15W; Township 64N, Range 15W; Township 65N, Range 15W; Township 65N, Range 16W; Township 66N, Range 16W; and Township 67N, Range 16W. This investigation was undertaken in accordance with the United States Army Corps of Engineers (USACE) jurisdictional Waters of the United States (WOUS) areas only. The survey was also completed in consultation with the Missouri State Historic Preservation Office (SHPO) to ensure compliance with state and federal regulations. This archaeological investigation was conducted in compliance with Public Law 89-665, the National Historic Preservation Act of 1966 (as amended), 16 U.S.C. 470 (f), and Presidential Executive Order 11593. This project uses established specifications for field investigations and guidance on site significance per National Register of Historic Places (NRHP) assessments according to the Secretary of the Interior's *Standards and Guidelines for Archaeology and Historic Preservation* (Federal Register, Vol. 48, No. 190, 1983) and with guidelines set forth by the Missouri SHPO.

Project Overview:

The Phase I survey of the proposed transmission line was limited to a 100-ft buffer around identified WOUS resources that are within the 150-ft ROW corridor. One hundred and nineteen WOUS resources were investigated within this segment of the proposed transmission line, totaling approximately 83.3 acres (**Figures 2-35; Photographs 1-6**). **Table 1** illustrates the location, ground cover, and survey method for each. Wood conducted a combination of shovel testing and intensive pedestrian surveys within the project area, which varied depending on the ground conditions. Shovel testing was conducted where surface visibility was less than 25 percent at a 20-meter interval. In areas that had surface visibility greater than 25 percent or in disturbed or eroded areas, an intensive pedestrian survey at 5-meter intervals was conducted.

Historic Map Review:

The 1876 Harrison and Warner *An Illustrated Historical Atlas of Adair County, Missouri*, the 1898 George A. Ogle and Company's *Standard Atlas of Adair County, Missouri*, the 1878 Edwards Brothers of *Missouri Illustrated Historical Atlas of Schuyler County, Missouri*, and the North West Publishing Company's *Plat Book of Schuyler County, Missouri* were reviewed for the presence of historic structures or cultural features. Two structures are shown near a WOUS resource (WL N 78 and N79) on the 1878 map of Schuyler County, but no archaeological evidence was located during the fieldwork (**Figure 36**). WL N78 is a newly constructed farm pond with a berm and slope and was pedestrian surveyed within the WOUS buffer. WL N79 was in grass pasture and slope with shovel test probes excavated within grass pasture and pedestrian survey on the slope of the WOUS buffer. No artifacts or evidence of structures was encountered at either location. The historic structures near WL N78 by Structure 897 and WL N79 between Structures 896 and 897, are likely located outside of the WOUS boundaries.

Site File Search:

A site file search was conducted to identify any previously recorded archaeological sites or surveys within or adjacent to the project corridor. No previously recorded archaeological sites are located within, or immediately adjacent to, WOUS resources within this segment of the transmission line. Sites within a one-mile radius of the project corridor include: (23SK) 7, 36, 41, 42, 45, 70. Several previously conducted surveys are located within the project corridor or a one-mile radius and include: AD-33, AD-35, AD-45, AD-48, AD-52, AD-72, AD-74, AD-81, PT-15, SK-7.

Table 1. WOUS Resources Surveyed within the Zachary to Ottumwa Segment.

Zachary to Ottumwa Segment (Structures 801-991)						
WOUS/ Wetland #	Structure #s	Ground Cover	Survey Method	# STPs	Site	Date/Crew
N1	937-938	Grass, corn stubble	STP	3		3-8-18/TSR-MEC
N2	942-943	Grass	STP	5		3-8-18/TSR-MEC
N3	943-944	Grass pasture	STP	4		3-8-18/TSR-MEC
N4	944-945	Grass	STP	4		3-8-18/TSR-MEC
N5	946-947	Grass, slope	STP	2		3-8-18/TSR-MEC
N6	947-948	Grass, slope	STP	2		3-8-18/TSR-MEC
N7	Access to 947	Grass, gravel road	STP	2		3-8-18/TSR-MEC
N8	Access to 948	Grass, push piles	STP	2		3-8-18/TSR-MEC
N9	Access to 948	Grass	STP	2		3-8-18/TSR-MEC
N10	Access to 948-949	Grass pasture	STP	2		3-9-18/JMB-CRB
N11	950-951	Grass	STP	5		3-9-18/JMB-CRB
N12	951-952	Grass	STP	15		3-9-18/JMB-CRB
N13	Access to 951	Existing gravel road, slope, pushed soil	Pedestrian	-		3-9-18/JMB-CRB
N14	Access to 951	Wooded slope	Pedestrian	-		3-9-18/JMB-CRB
N15	956-957	Grass/brush, slope	STP, Pedestrian	2		3-9-18/JMB-CRB
N16	957-958	Grass/brush, slope	STP, Pedestrian	1		3-9-18/JMB-CRB
N17	958-959	Grass/brush, slope	Pedestrian	-		3-9-18/TSR-MEC
N18	909-910	Grass pasture	STP	4		3-9-18/TSR-MEC
N19	833-834	Grass, corn stubble	STP	2		3-10-18/TSR-MEC
N20	831-832	Grass	STP	2		3-10-18/TSR-MEC
N21	815	Grass slope	Pedestrian	-		2-22-18/EMH-TSR
N22	816-817	Grass	STP	3		2-22-18/EMH-TSR
N23	816-817	Grass slope	Pedestrian	-		2-22-18/EMH-TSR
N24	913-914	Grass, slope	STP, Pedestrian	7		3-10-18/TSR-MEC
N25	801-802	Wooded	STP	4		5-1-18/JMB-DND
N26	803	Wooded	STP	4		5-1-18/JMB-DND
N27	805-806	Sparse grass, pond dam	Pedestrian	-		5-1-18/JMB-DND
N28	806-807	Wooded	STP	1		5-1-18/JMB-DND
N29	807-808	Wooded slope	STP	2		5-1-18/JMB-DND
N30	804-805	Wooded slope	Pedestrian	-		5-1-18/JMB-DND
N31	809-810	Grass/brush, slope	Pedestrian	-		5-1-18/JMB-DND
N32	810-811	Grass	STP	3		5-1-18/JMB-DND

Zachary to Ottumwa Segment (Structures 801-991)						
WOUS/ Wetland #	Structure #s	Ground Cover	Survey Method	# STPs	Site	Date/Crew
N33	811-812	Grass/brush	STP	2		5-1-18/JMB-DND
N34	811-812	Grass/brush	Pedestrian	-		5-1-18/JMB-DND
N35	813-814	Grass slope	Pedestrian	-		5-1-18/JMB-DND
N36	817-818	Grass/brush, slope	STP	2		5-2-18/VW-DMB
N37	818-819	Grass pasture	STP	3		5-2-18/VW-DMB
N38	821-822	Grass pasture	STP	4		5-2-18/VW-DMB
N39	821-822	Grass pasture, slope	STP	3		5-2-18/VW-DMB
N40	823-824	Grass pasture, slope	Pedestrian	-		5-2-18/VW-DMB
N41	825-826	Grass/brush, slope	STP	2		5-2-18/VW-DMB
N42	825-826	Grass pasture, slope	Pedestrian	-		5-2-18/VW-DMB
N43	826-827	Grass pasture, slope	Pedestrian	-		5-2-18/VW-DMB
N44	827-828	Grass pasture, slope	STP, Pedestrian	2		5-2-18/VW-DMB
N45	828-829	Grass/brush, slope	Pedestrian	-		5-2-18/VW-DMB
N46	830-831	Grass/brush, slope	Pedestrian	-		5-2-18/VW-DMB
N47	Access to 829	Road cut, slope	STP, Pedestrian	1		5-2-18/VW-DMB
N48	832-833	Grass berms for lake, slope	Pedestrian	-		5-3-18/VW-DMB
N49	845-846	Grass/brush	STP	4		5-2-18/JMB-DND
N50	846-847	Grass/brush	STP	4		5-2-18/JMB-DND
N51	848-849	Grass pasture	STP	5		5-2-18/JMB-DND
N52	856-857	Grass pasture	STP	4		5-2-18/JMB-DND
N53	858-859	Grass, slope	STP	2		5-2-18/JMB-DND
N54	860	Wooded slope	Pedestrian	-		5-2-18/JMB-DND
N55	860-861	Grass/brush, slope	Pedestrian	-		5-2-18/JMB-DND
N56	860-861	Grass/brush	Pedestrian	-		5-2-18/JMB-DND
N57	862-863	Grass, slope	Pedestrian	-		5-2-18/JMB-DND
N58	864-865	Grass	STP	4		5-2-18/JMB-DND
N59	867-868	Grass/brush, slope	STP	2		5-3-18/JMB-DND
N60	868-869	Grass, slope	STP	2		5-3-18/JMB-DND
N61	869-870	Grass pasture	STP	13		5-3-18/JMB-DND
N62	866-867	Grass pasture, slope	Pedestrian	-		5-3-18/JMB-DND
N63	871-872	Grass pasture	STP	4		5-3-18/JMB-DND
N64	872	Grass	STP	1		5-3-18/JMB-DND
N65	872-873	Grass pasture	STP	4		5-3-18/JMB-DND
N66	873-875	Grass pasture	STP	10		5-3-18/JMB-DND

Zachary to Ottumwa Segment (Structures 801-991)						
WOUS/ Wetland #	Structure #s	Ground Cover	Survey Method	# STPs	Site	Date/Crew
N67	875-876	Grass pasture	STP	4		5-3-18/JMB-DND
N68	876-877	Grass/brush, slope	STP	2		5-3-18/JMB-DND
N69	876-877	Grass, woods	Pedestrian	-		5-4-18/JMB-DND
N70	888-889	Grass pasture	STP	6		5-3-18/VW-DMB
N71	886-887	Grass pasture	STP	5		5-3-18/VW-DMB
N72	885-886	Brush/grass pasture, slope	STP, Pedestrian	3		5-3-18/VW-DMB
N73	885-886	Grass pasture, slope	STP, Pedestrian	1		5-3-18/VW-DMB
N74	889-890	Grass slope	Pedestrian	-		5-3-18/VW-DMB
N75	890-891	Grass, slope	STP	2		5-3-18/VW-DMB
N76	890-891	Grass slope	Pedestrian	-		5-3-18/VW-DMB
N77	899-900	Brush slope	Pedestrian	-		5-3-18/VW-DMB
N78	897-898	Newly constructed pond berm, slope	Pedestrian	-		5-3-18/VW-DMB
N79	896-897	Grass pasture, slope	STP, Pedestrian	2		5-3-18/VW-DMB
N80	892-893	Access road, grass slope	Pedestrian	-		5-3-18/VW-DMB
N81	Access to 878	Wooded	Pedestrian	-		5-4-18/JMB-DND
N82	878-879	Grass pasture	STP, Pedestrian	2		5-4-18/JMB-DND
N83	Access to 879-880	Soybean stubble	Pedestrian	1		5-4-18/JMB-DND
N84	879-880	Grass pasture	STP, Pedestrian	1		5-4-18/JMB-DND
N85	Access to 880	Road cut	Pedestrian	-		5-4-18/JMB-DND
N86	881-882	Grass/brush, slope	STP	2		5-4-18/JMB-DND
N87	902-903	Grass/brush, slope	Pedestrian	-		5-4-18/JMB-DND
N88	902-903	Grass/brush, slope	Pedestrian	-		5-4-18/JMB-DND
N89	904-905	Grass/brush	STP, Pedestrian	4		5-4-18/JMB-DND
N90	Access to 906	Wooded, eroded	STP, Pedestrian	1		5-4-18/JMB-DND
N91	906-907	Grass/brush, slope	Pedestrian	-		5-4-18/JMB-DND
N92	Access to 918-919	Grass	Pedestrian	-		5-7-18/JMB-VW
N93	920-921	Brush, slope	Pedestrian	-		5-7-18/JMB-VW
N94	921-922	Grass, slope	Pedestrian	-		5-7-18/JMB-VW
N95	924-925	Grass pasture, slope	Pedestrian	-		5-8-18/JMB-VW
N96	Access to 925	Grass, wooded, slope	STP	1		5-8-18/JMB-VW
N97	928-929	Grass pasture, slope	STP	2		5-8-18/JMB-VW
N98	929-930	Brush, wooded, slope	Pedestrian	-		5-8-18/JMB-VW
N99	929-930	Grass/brush, slope	Pedestrian	-		5-8-18/JMB-VW
N100	930-931	Grass, sloped	STP, Pedestrian	2		5-8-18/JMB-VW

Zachary to Ottumwa Segment (Structures 801-991)						
WOUS/ Wetland #	Structure #s	Ground Cover	Survey Method	# STPs	Site	Date/Crew
N101	932	Grass	STP, Pedestrian	2		5-8-18/JMB-VW
N102	932-933	Grass/brush-just north of N101	STP	4		5-8-18/JMB-VW
N103	932-933	Grass pasture	STP	2		5-8-18/JMB-VW
N104	932-933	Wooded, slope-just north of N103	STP	1		5-8-18/JMB-VW
N105	934-935	Grass pasture	STP	2		5-8-18/JMB-VW
N106	935-936	Grass pasture, slope	Pedestrian	-		5-8-18/JMB-VW
N107	Access to 970	Grass pasture	STP	2		5-9-18/JMB-VW
N108	969-970	Grass pasture	STP	3		5-9-18/JMB-VW
N109	970-971	Grass/brush, slope	Pedestrian	-		5-9-18/JMB-VW
N110	971-972	Grass/brush	STP	4		5-9-18/JMB-VW
N111	971-972	Grass pasture, slope	STP	2		5-9-18/JMB-VW
N112	977-978	Grass pasture	STP	1		5-9-18/JMB-VW
N113	899-900	Grass/brush, slope	STP	1		5-16-18/JMB-CRB
N114	926-927	Brush, slope	STP	2		5-17-18/JMB-CRB
N115	926-927	Grass/brush, slope	Pedestrian	-		5-17-18/JMB-CRB
N116	917-918	Grass/brush, slope	Pedestrian	-		5-7-18/JMB-VW
N117	918-919	Brush, slope	STP	2		5-7-18/JMB-VW
N118	830-831	Grass, slope	STP	5		3-10-18/TSR-MEC
N119	912-913	Grass, slope	STP, Pedestrian	3		3-10-18/TSR-MEC

Results and Recommendations:

Wood completed a Phase I cultural resource survey within a 100-ft buffer of the USACE jurisdictional WOUS resources within the proposed Zachary to Ottumwa segment of the Mark Twain Transmission Project, Adair and Schuyler Counties, Missouri. The systematic shovel test and pedestrian surveys did not locate any cultural resources. No previously recorded archaeological sites are located within or adjacent to the WOUS resources. Due to the lack of any cultural resources observed during the survey, Wood recommends no further archaeological work is necessary within these areas.

Bibliography:

Edwards Brothers of Missouri

1878 *Illustrated Historical Atlas of Schuyler County, Missouri*. Philadelphia, PA.

Harrison and Warner

1876 *An Illustrated Historical Atlas of Adair County, Missouri*. Philadelphia, PA.

North West Publishing Co.

1898 *Plat Book of Schuyler County, Missouri*. Des Moines, IA.

Ogle, George A. and Company

1898 *Standard Atlas of Adair County, Missouri*. Chicago, IL.

United States Department of Agriculture, Web Soil Survey

2018 Electronic document, <https://websoilsurvey.nrcs.usda.gov/app/>, accessed May 2018.

United States Geological Survey

1979 *Coatsville, Missouri*. 7.5-Minute Series (Topographic). Reston, VA.

1979 *Connelsville, Missouri*. 7.5-Minute Series (Topographic). Reston, VA.

1979 *Greentop, Missouri*. 7.5-Minute Series (Topographic). Reston, VA.

1979 *Kirksville, Missouri*. 7.5-Minute Series (Topographic). Reston, VA.

1979 *Livonia, Missouri*. 7.5-Minute Series (Topographic). Reston, VA.

1979 *Queen City, Missouri*. 7.5-Minute Series (Topographic). Reston, VA.