

**BEFORE
THE OHIO POWER SITING BOARD**

In the Matter of the Application of Yellow)
Wood Solar Energy, LLC for a Certificate of)
Environmental Compatibility and Public Need) Case No: 20-1680-EL-BGN
to Construct a Solar-Powered Electric)
Generation Facility in Clinton County, Ohio.)

DIRECT TESTIMONY OF

**Ryan J. Peterson
Senior Principal, Archaeology
Cardno**

**on behalf of
Yellow Wood Solar Energy, LLC**

September 19, 2022

/s/ Christine M.T. Pirik

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1 **1. Please state your name, current title, and business address.**

2 My name is Ryan J. Peterson. I am a Senior Principal Archaeologist for Cardno, Inc.
3 ("Cardno"). My business address is 3901 Industrial Blvd, Indianapolis, IN 46254.
4

5 **2. Please summarize your educational background and professional experience.**

6 I received a B.A. from the University of Indianapolis (1996) with majors in Anthropology
7 and Biology and a M.A. in Anthropology from the University of Arkansas (2000). I am
8 employed by Cardno. A copy of my resume is attached to my testimony as Attachment
9 RJP-1.
10

11 **3. On whose behalf are you offering testimony?**

12 I am testifying on behalf of Yellow Wood Solar Energy, LLC ("Applicant" or "Yellow
13 Wood"), which is seeking to develop the proposed Yellow Wood Solar facility ("Project")
14 in Clinton County, Ohio.
15

16 **4. What is the purpose of your testimony?**

17 The purpose of my testimony is to describe particular studies Cardno undertook on behalf
18 of the Applicant, and to summarize the information set forth in the ecological documents
19 and information contained in the following exhibits that are part of the Application for a
20 Certificate of Environmental Compatibility and Public Need ("Certificate") filed with the
21 Ohio Power Siting Board ("Board") by Yellow Wood in Case No. 20-1680-EL-BGN on
22 February 24, 2021, as supplemented on June 17, August 19, September 3, and October 8,
23 2021, and as further supplemented by responses to data requests that were received from
24 the Board's Staff and filed in the docket ("Application"):

- 25 • Exhibit O – Cultural Resources Memorandum and Phase I Cultural Workplan
- 26 • Exhibit P – Historic Architecture Reconnaissance Survey
- 27 • Supplement to Application filed June 17, 2021 – State Historic Preservation Office
28 ("SHPO") Architecture Concurrence Letter
- 29 • Second Supplement to Application filed August 19, 2021 - Phase I Archaeological
30 Reconnaissance Report
- 31 • Fourth Supplement to Application filed October 8, 2021 – Memorandum of

1 Understanding (“MOU”) between SHPO and Yellow Wood.

2
3 My testimony, together with the other witnesses testifying for Yellow Wood in this case,
4 supports Joint Exhibit 1 filed in the case on August 8, 2022, which is the Joint Stipulation
5 and Recommendation filed by Yellow Wood, the Board’s Staff (“Staff”), and the Ohio
6 Farm Bureau Federation (“OFBF”) (“Stipulation”), and approval of Yellow Wood’s
7 Application for a Certificate to construct the Project.

8
9 **5. Please describe the history of your involvement with the Yellow Wood Project?**

10 I managed all aspects of the cultural resources investigations, including the development
11 of the workplan, and the development of a Project MOU between Yellow Wood and SHPO.

12
13 **6. Have you reviewed the Stipulation that was filed in this proceeding on August 8, 2022**
14 **and the Certificate Conditions recommended in the Stipulation?**

15 Yes, I have.

16
17 **7. What is the Phase 1 Cultural Workplan Contained in Application Exhibit O?**

18 Ohio Administrative Code (“O.A.C.”) Rule 4906-04-08(D) and the Board require that
19 applicants such as Yellow Wood evaluate all cultural resources located within 5 miles of
20 the proposed Project Area, an area known as the “Study Area.”¹ The Phase I Cultural
21 Workplan is intended to comply with these requirements and includes a review of the
22 existing cultural resource records available for the Study Area, including those available
23 from SHPO and other resources. The Phase I Cultural Workplan includes a proposed
24 methodology for a reconnaissance survey of archeological and historic/architectural
25 resources.

26
27 **8. What methodology did Cardno use in completing the Phase 1 Cultural Workplan?**

28 Cardno reviewed online data provided by the Ohio History Connection/SHPO (“OH-
29 SHPO”) web-based database identifying previously recorded archaeological sites, historic

¹ The Applicant requested and received a waiver of O.A.C. Rules 4906-4-08(D)(2) and (3) to allow for a 2-mile Study Area. *See Yellow Wood Solar Energy, LLC*, Case No. 20-1680-EL-BGN, Entry (Mar. 22, 2022).

1 structures, and other cultural resources. Cardno focused on previously recorded resources
2 within 3.2 kilometers (“km”) (2 miles [“mi”]) of the Project Area, but also examined the
3 larger region where appropriate. Additionally, the following resources were reviewed:
4 National Historic Landmark list, National Register of Historic Places (“NRHP”), Cultural
5 Resource Management reports, County Histories and Atlas Maps, Ohio Archaeological
6 Inventory (“OAI”) files, Ohio Genealogical Society (“OGS”) cemetery files, and the
7 *Archaeological Atlas of Ohio* (Mills 1914).

8
9 **9. What known cultural resources were identified within the Study Area?**

10 Records provided by SHPO revealed 3 previous archaeological surveys, 26 previously
11 identified archaeological sites, 11 cemeteries, and 5 historic structures, 1 of which is listed
12 in the NRHP, within the Study Area. None of these resources or surveys are located within
13 the Project Area. All previously documented cultural resources were located within the 3.2
14 km (2 mi) Study Area.

15
16 **10. Please summarize the findings of the Historic Architectural Reconnaissance Survey
17 contained in Exhibit P of the Application.**

18 A cultural resources records check was conducted utilizing data available through the OH-
19 SHPO web-based database focused on a 2-mile buffer (architectural study area) around the
20 proposed Project footprint. A total of 5 properties were previously documented on OH-
21 SHPO forms within the two-mile study area. Of these properties, 2 are located within the
22 Project’s area of potential effect (“APE”), and 3 are situated outside the APE in the two-
23 mile architectural study area. The previously recorded properties are located north of the
24 APE or within the town of Lynchburg, Ohio. The Yellow Wood survey recorded 293
25 properties, of which 18 are recommend eligible for listing to the NRHP. Of these 18, 7
26 properties had potential Adverse Effects from the Project and 11 had No Effects as a result
27 of the project.

11. Please summarize the findings of the Phase I Archaeological Reconnaissance Report contained in Second Supplement to the Application.

The entire 1,401-hectarces (“ha”) (3,462 acres) Project Area was investigated for cultural resources. Woodlots and residential parcels were only visually inspected, as no Project activities will occur in these areas. Field investigations included visual inspection, controlled surface survey, and shovel testing throughout the Project Area. Cardno identified 78 new archaeological sites. Twenty of these sites consist of prehistoric isolate finds, 9 sites consist of small prehistoric lithic scatters (33-CN-0513, 33-CN-0521, 33-CN-0523-0526, 33-CN-0528, 33-CN-0529, and 33-CN-0540). One site consists of a prehistoric lithic scatter with a historic isolate (33-CN-0494). Twenty-six sites consist of historic scatters (33-CN-0496 through 0500, 33-CN0502, 33-CN-0507 through 0512, 33-CN-0516, 33-CN-0517, 33-CN-0520, 33-CN-0530 through 0533, 33-CN-0535, 33-CN-0536, 33-CN-0538, 33-CN-0541, 33-CN-0544, 33-CN-0547, and 33-CN-0550). A total of 10 sites consist of historic scatters with prehistoric isolates (33-CN-0495, 33-CN-0501, 33-CN-0506, 33-CN-0507, 33-CN-0518, 33-CN-0519, 33-CN-0534, 33-CN-0537, 33-CN-0539, and 33-CN-0546). Three historic wells were identified (33-CN-0543, 33-CN-0548, and 33-CN-0549). Nine multicomponent prehistoric and historic scatters were identified as a result of the field investigation (33-CN-0493, 33-CN-0503, 33-CN-0504, 33-CN-0514, 33-CN-0515, 33-CN-0522, 33-CN-0527, 33-CN-0542, and 33-CN-0545).

In addition, The Big Onion (a flag-stop on the B&O NW Railway line) identified within the Project Area. There are no standing structures or NRHP eligible archaeological sites documented in this area.

12. What direct impact, if any, will the Project have on known cultural resources?

Archaeological sites 33-CN-504 (prehistoric component only), 33-CN-515 (prehistoric component only), 33-CN-522 (prehistoric component only), 33-CN-523, 33-CN-524, and 33-CN-527 were identified within the boundaries of the Project and determined, through SHPO consultation, to be potentially eligible for the NRHP. Sites 33-CN-504 (prehistoric component only), 33-CN-524, and 33-CN-527 were identified within the boundaries of the Project.

1
2 Yellow Wood will avoid ground disturbance in the designated avoidance areas for
3 archaeological sites 33-CN-504 (prehistoric component only), 33-CN-524, and 33-CN-
4 527. Temporary construction fencing will be placed within the 50-foot buffer of these
5 resources, near the buffer edge, prior to construction to physically demarcate the area from
6 construction personnel, indicating avoidance. This fencing will be maintained in good
7 condition throughout the duration of construction and will be included in the plan notes of
8 the final design plans.

9
10 Yellow Wood has agreed to conduct geophysical investigation and manual coring at
11 archaeological sites 33-CN-515 (prehistoric component only), 33-CN-522 (prehistoric
12 component only), and 33-CN-523. This the results of this investigation will be submitted
13 to SHPO for review and comment.

14
15 The historical location of a wooden boarding house/train depot located along the B & O
16 NW railway line “The Big Onion” was identified. This area includes sites 33-CN-500, 33-
17 CN-552, and 33-CN-553 (small, diffuse historic-era artifact scatters that were not
18 determined to be eligible for the NRHP) located at the historically mapped locale of “The
19 Big Onion.” Due to the potential association of these sites with The Big Onion, Yellow
20 Wood has delineated an avoidance area out of caution and local interest in preserving this
21 resource.

22
23 Accordingly, the MOU will ensure that no direct impacts from the Project will occur on
24 known cultural resources.

25
26 **13. What indirect impact, if any, will the Project have on known cultural resources?**

27 The indirect impacts of the Project are summarized below. The topics of visual impacts
28 resulting from the Project, as well as what mitigation measures, if any, may be appropriate
29 are the subject of the direct testimony of Ryan Rupprecht.
30

1 Eighteen architectural resources were identified within the visual APE of the Project
2 through the Survey (OHI Ref. Nos. HIG0047707 [FS11], CLI0030512 [FS84],
3 CLI0031513 [FS86], HIG0047807 [FS95], HIG0047907 [FS102], CLI0018313 [FS186],
4 CLI00181213 [FS187], CLI0030613 [FS188], CLI0030713 [FS190], CLI0030813
5 [FS191], CLI0030913 [FS192], CLI0031013 [FS194], HIG003507 [FS201], HIG0048007
6 [FS220], CLI0031213 [FS245], HIG0029807 [FS2530], HIG0048107 [FS256], and
7 CLI0031413 [FS283]), were determined as individually eligible for listing in the NRHP.

8
9 Seven of the 18 resources were preliminarily identified in the History Architecture
10 Reconnaissance Survey, Application Exhibit P, as having potential indirect adverse effects
11 due to visual impacts from the Project (OHI Ref. No. HIG0047707 [FS11], CLI0031513
12 [FS86], HIG0047807 [FS95], HIG003507 [FS201], HIG0048007 [FS220], CLI0031213
13 [FS245] and CLI0031413 [FS283]);

14
15 Through consultation with the SHPO, 5 of the 7 NRHP eligible properties, determined to
16 have no adverse impacts from the Project including: HIG0047707 (FS11), HIG0047807
17 (FS95), HIG003507 (FS201), HIG0048007 (FS220), and CLI0031213 (FS245) due to their
18 distance from the Project, existing vegetation in the direct vicinity of these resources that
19 assist with screening, existing vegetation at greater distances from the resources that help
20 to obscure portions of the Project's aboveground infrastructure from view, and the
21 continued traditional agricultural use of the surrounding landscape.

22
23 The remaining 2 properties (CLI0031513 [FS 86] and CLI0031413 [FS 283]) were
24 determined to have visual impacts. Yellow Wood utilized the Vegetation Management
25 Plan, Application Exhibit M, which is supported by Applicant witness Rupprecht, to
26 address visual impacts to resources CLI0031513 (FS86) and CLI0031413 (FS283) from
27 the Project and propose strategies to mitigate adverse impacts.

28
29 **14. Please explain the purpose of a Memorandum of Understanding with SHPO**
30 **submitted as the Fourth Supplement to the Stipulation and the requirements therein.**

31 The purpose of a MOU is to define the roles and responsibilities of SHPO and Yellow

1 Wood with respect to addressing potential impacts to cultural resources resulting from the
2 Project, as required under the Ohio Revised Code and O.A.C.. The MOU ensures that
3 Yellow Wood will continue consultation with SHPO and mitigate for and/or avoid
4 potential adverse effects upon cultural resources due to the Project prior to and throughout
5 construction.
6

7 **15. Based upon the archaeological and architectural studies performed for the Yellow**
8 **Wood Project, is it possible to determine the nature of the probable environmental**
9 **impact of the facility on those resources?**

10 Yes.
11

12 **16. Based upon the findings in the archaeological and architectural studies, together with**
13 **Yellow Wood's commitments in the Application, along with the conditions in the**
14 **Stipulation, does the facility represent the minimum adverse environmental impact**
15 **considering the state of available technology and the nature and economics of the**
16 **various alternatives, and other pertinent considerations?**

17 Yes.
18

19 **17. Are your opinions and conclusions in your testimony made with a reasonable degree**
20 **of scientific certainty?**

21 Yes.
22

23 **18. Does this conclude your testimony?**

24 Yes. However, I reserve the right to update my testimony to respond to any further
25 testimony, reports, and/or evidence submitted in this case.

CERTIFICATE OF SERVICE

The Ohio Power Siting Board's e-filing system will electronically serve notice of the filing of this document on the parties referenced in the service list of the docket card who have electronically subscribed to these cases. In addition, the undersigned certifies that a copy of the foregoing document is also being served upon the persons below this 19th day of September, 2022.

/s/ Christine M.T. Pirik

Christine M.T. Pirik (0029759)

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Attachment RJP – 1
Ryan J. Peterson
Resume

Ryan J. Peterson

Current Position

Senior Principal /
Archaeologist

Discipline Area

- > Phase I, II, and III
Prehistoric and
Historic Archaeology
- > Cultural Resource
Management
- > Human Burial
Excavation
- > Archaeological
Geophysical
- > Artifact Analysis and
Conservation
- > Native American
Consultation
- > Project Management

Years' Experience

23

Joined Cardno

2015

Education

- > MA, Anthropology/
Archaeology,
University of
Arkansas, 2000
- > BS, Anthropology/
Biology/ Chemistry,
University of
Indianapolis, 1996

Affiliations

- > Society for American
Archaeology
- > American Cultural
Resources
Association
- > Society for Historical
Archaeology
- > Midwest & Indiana
Archaeological
Conference
- > Indiana Association
of Environmental
Professionals

Summary of Experience

Mr. Ryan Peterson serves as a senior archaeological consultant and Principal Investigator for Cardno's cultural resources management team. He has more than 23 years of experience in archaeology and cultural resource management, including over 21 years' experience in supervisory positions. Mr. Peterson meets the Secretary of the Interior's Professional Qualification Standards in both Prehistoric and Historic Archaeology, as defined in 36 CFR 61, Appendix A. His geographic expertise is focused upon the Midwest and southeast U.S. and Alaska. As a consultant, he has completed projects in 22 states and the Republic of the Marshall Islands. He has extensive experience conducting archaeological corridor studies relating to transportation and transmission line projects. Mr. Peterson has served as project manager and Principal Investigator for 17 solar energy projects in the state of Ohio covering over 29,000 acres and resulting in the documentation of over 1,250 archaeological sites and over 2,100 historic properties. His research background ranges from basic literature and archival research to supervising and managing extensive excavations. In addition to traditional excavation techniques, Mr. Peterson has expertise in applying geophysical prospecting techniques (magnetometry, electrical resistivity, and ground penetrating radar) to archaeological investigations. He has additional experience with laboratory analysis and conservation of artifacts. He also has experience with excavating and analyzing human remains. Mr. Peterson has organized Native American Consultation workshops as well as facilitated consultation relating to excavating and handling human remains.

Ohio Renewables Projects

Principal Investigator – Harvey Solar I Project – Licking County, Ohio

Mr. Peterson served as the project manager for all cultural resources tasks and the Principal Investigator for the archeological survey and report. The project area totaled approximately 4,263 acres, in which 332 archaeological sites were documented. In addition, the history/architecture investigation resulted in the documentation of 233 resources.

Principal Investigator – Cepheus Solar Project – Defiance County, Ohio

Mr. Peterson served as the project manager for all cultural resources tasks and the Principal Investigator for the archeological survey and report. The project area totaled approximately 649 acres, in which ten archaeological sites were documented. In addition, the history/architecture investigation resulted in the documentation of 249 resources.

Principal Investigator – Juliet Solar Project – Wood County, Ohio

Mr. Peterson served as the project manager for all cultural resources tasks and the Principal Investigator for the archeological survey and report. The project area totaled approximately 664 acres, in which 24 archaeological sites were documented. In addition, the history/architecture investigation resulted in the documentation of 289 resources.

Principal Investigator – Sycamore Creek Solar Project – Crawford County, Ohio

Mr. Peterson served as the project manager for all cultural resources tasks and the Principal Investigator for the archeological survey and report. The project area totaled approximately 917 acres, in which 45 archaeological sites were documented. In addition, the history/architecture investigation resulted in the documentation of 68 resources.

Principal Investigator – Arche Solar Project – Fulton County, Ohio

Mr. Peterson served as the project manager for all cultural resources tasks and the Principal Investigator for the archeological survey and report. The project area totaled approximately 1,010 acres, in which 45 archaeological sites were documented. In addition, the history/architecture investigation resulted in the documentation of 65 resources.

Principal Investigator – Palomino Solar Energy Project – Crawford County, Ohio

Mr. Peterson served as the project manager for all cultural resources tasks and the Principal Investigator for the archeological survey and report. The project area totaled approximately 2,906 acres, in which 83 archaeological sites were documented. In addition, the history/architecture investigation resulted in the documentation of 208 resources.

Principal Investigator – Pleasant Prairie Solar Project – Franklin County, Ohio

Mr. Peterson served as the project manager for all cultural resources tasks and the Principal Investigator for the archeological survey and report. The project area totaled approximately 2,361 acres, in which 164 archaeological sites were documented. In addition, the history/architecture investigation resulted in the documentation of 244 resources.

Principal Investigator – Confidential Client – Logan County, Ohio

Mr. Peterson served as the project manager for all cultural resources tasks and the Principal Investigator for the archeological survey and report. The project area totaled approximately 3,396 acres (survey ongoing), in which 161 archaeological sites have been documented thus far. In addition, the history/architecture investigation resulted in the documentation of 285 resources.

Principal Investigator – Yellow Wood Solar Project – Clinton County, Ohio

Mr. Peterson served as the project manager for all cultural resources tasks and the Principal Investigator for the archeological survey and report. The project area totaled approximately 3,462 acres, in which 81 archaeological sites were documented. In addition, the history/architecture investigation resulted in the documentation of 293 resources.

Principal Investigator – Yellowbud Solar Project – Ross and Pickaway Counties, Ohio

Mr. Peterson served as the project manager for all cultural resources tasks and the Principal Investigator for the archeological survey and report. The project area totaled approximately 2,040 acres, in which 56 archaeological sites were documented. In addition, the history/architecture investigation resulted in the documentation of 68 resources.

Principal Investigator – Fayette Solar Project – Fayette and Highland Counties, Ohio

Mr. Peterson served as the project manager for all cultural resources tasks and the Principal Investigator for the archeological survey and report. The project area totaled approximately 516 acres, in which 45 archaeological sites were documented.

Principal Investigator – Dodson Creek Solar Project – Highland County, Ohio

Mr. Peterson served as the project manager for all cultural resources tasks and the Principal Investigator for the archeological survey and report. The project area totaled approximately 1,462 acres, in which 40 archaeological sites were documented. In

addition, the history/architecture investigation resulted in the documentation of 127 resources.

Principal Investigator – Ross County Solar Project – Ross County, Ohio

Mr. Peterson served as the project manager for all cultural resources tasks and the Principal Investigator for the archeological survey and report. The project area totaled approximately 1,384 acres, in which 98 archaeological sites were documented. In addition, the history/architecture investigation resulted in the documentation of 83 resources.

Principal Investigator – Confidential Client – Logan and Union Counties, Ohio

Mr. Peterson served as the project manager for all cultural resources tasks and the Principal Investigator for the archeological survey and report. The project area totaled approximately 1,007 acres, in which 45 archaeological sites have been documented as part of this ongoing survey. In addition, the history/architecture investigation is also ongoing.

Principal Investigator – Confidential Client, Fulton County, Ohio

Mr. Peterson served as the project manager for all cultural resources tasks and the Principal Investigator for the archeological survey and report. The project area total approximately 1,703 acres. Both the archaeological and history/architecture investigations are planned in the spring 2022.

Principal Investigator – Confidential Client – Henry and Fulton Counties, Ohio

Mr. Peterson served as the project manager for all cultural resources tasks and the Principal Investigator for the archeological survey and report. The project area total approximately 965 acres. Both the archaeological and history/architecture investigations are planned in the spring 2022.

Principal Investigator – Confidential Client, – Marion County, Ohio

Mr. Peterson served as the project manager for all cultural resources tasks and the Principal Investigator for the archeological survey and report. The project area total approximately 548 acres. Both the archaeological and history/architecture investigations are planned in the spring 2022.

Project Manager – Crossroads Windfarm Archaeological and Historic Architectural Resource Investigation and Documentation – Ohio

On behalf of a confidential client, Cardno conducted archaeological and historic architectural resource investigation and documentation prior to the construction of a windfarm in Huron County, Ohio. A literature review of previous sites and structures in the project area and region was conducted using online files provided by the Ohio State Historic Preservation Office prior to initiating fieldwork. The Phase I archaeological investigation included shovel testing and pedestrian survey for 25 turbine locations, two staging areas, and associated access road and transmission line locations. Over 40 archaeological resources were identified as a result of the investigation. The archaeological resources identified included both prehistoric and historic sites, ranging from isolate artifacts to large artifact scatters. Upon completion of the Phase I archaeological investigation and historic architecture documentation, reports of the findings were submitted to the Ohio State Historic Preservation Office for review and concurrence. Mr. Peterson served as the project manager.

Select Other Significant Projects

Tribal and Cultural Liaison – Mackinac Straits Biological & Cultural Investigations, Wisconsin and Michigan

Cardno conducted 22 acres of terrestrial and roughly seven miles of underwater investigations for the replacement of American Transmission Company's (ATC) 138kV submarine cable replacement project. This project was complex and involved negotiation with the U.S. Army Corps of Engineers, and consultation with 17 tribes and/or tribal organizations. The tribal consultation coordinated in by Cardno in a proactive manner was well received and resulted in a positive outcome for both the tribes and ATC. This project has included participation and coordination in three United Tribal Council meeting and is currently ongoing. Mr. Peterson serves as the tribal and cultural liaison, coordinating and overseeing the consultation process.

Tribal and Cultural Liaison – ATC NEPA and Section 106 of the National Historic Preservation Act Services for the Cardinal - Hickory Creek 345-kV Transmission Line Project, Wisconsin

Cardno provided tribal consultation services for a proposed new approximately 125 mile, high-voltage transmission line connecting northeast Iowa and southwestern Wisconsin. Cardno facilitated initial coordination with interested tribes and provided ongoing advising for the utilities throughout the NEPA and the Section 106 processes, which is overseen by the lead federal agency, USDA Rural Utility Services (RUS). In addition to tribal coordination, during this project Cardno has coordinated, interacted and negotiated with the RUS, the utilities, the Wisconsin State Historic Preservation Officer office, several state and local government agencies, other consultants, as well as interested private citizens. Mr. Peterson assisted as a tribal and cultural liaison, coordinating and overseeing the consultation process.

QA/QC Reviews – Urban Archaeology Investigations, Citizens Energy Group DigIndy Deep Tunnel Project – Indiana

In response to a request from Citizens Energy Group, Cardno is completing archaeological and architectural history investigations, reporting, and agency consultation for this project, consisting of 18.7 miles of tunnel which is being tunnelled through bedrock 200-250 feet beneath downtown Indianapolis in order to reduce combined sewer overflow throughout the city. As part of the archaeological investigations, Cardno has developed a new approach to address the 30+ urban locations that require investigation. Our process includes standard, archival research coupled with Ground Penetrating Radar investigations to identify potential historic archaeological features at any given project area. This research and analysis is then followed by controlled excavation with vacuum trucks to locate and excavate features more accurately than traditional Phase I methodology. Cardno has currently tested this technique at multiple locations on the DigIndy Deep Tunnel Project, and has been successful in identifying deeply buried historic features. Mr. Peterson provides QA/QC reviews.

QA/QC Reviews – Confidential Energy Client, Environmental Services for a Transmission Line Relocation and Rebuild Project Through Federal Property – Johnson County, Indiana

This project was a relocation and rebuild of an existing transmission line from a federal property. The project area consisted of a 100-foot wide corridor spanning five miles, totaling 59 acres. Cardno wetland scientists delineated two wetlands and six streams across the project area. Cardno quickly and accurately assessed regulated waters and Rule 5 concerns, created work plans for power line work crews, acquired all necessary permits, assessed probabilities for endangered, threatened and rare species and addressed the restrictions to work that these species may pose. Cardno also conducted a

Phase Ia archaeological reconnaissance (Phase Ia) for approximately 1.5 mile (mi) of the 3.9 mi project area in Johnson County, Indiana. The portion of the project area investigated is state owned and subject to the requirements stipulated under Indiana Code 14-21-1 and 312 IAC 21. The remaining portion of the project area is not state owned and no federal or state funding was required for the project; therefore, it was not subjected to archaeological investigation. Mr. Peterson provides QA/QC reviews.

Technical Reviewer – Various Energy Projects for Confidential Client – Indiana

Mr. Peterson served as a technical reviewer for various energy project associated with generation facilities.

Field Director – Merrillville 86th Street Extension – Indiana

Cardno provided comprehensive environmental studies and surveys to identify sensitive areas containing biological and cultural resources and lead permit applications for waters of the U.S. impacts. Cardno biologists delineated wetlands. Cardno archaeologists and architectural historians conducted cultural resources surveys and reports. Mr. Peterson served as a field crew member and project technical reviewer.

Cultural Resources Consultant – Environmental Project Management for American Transmission Company's Special Work Assignment Team – Wisconsin and Illinois

ATC hired Cardno as their sole Environmental Project Manager for their Special Work Assignment Team (SWAT) which is focused on updating transmission lines that do not meet the new internal Study Based Ratings Methodology guidelines. Cardno staff is involved in projects from initial design to project closeout, including continual coordination and communication with the SWAT project team. Cardno conducts environmental reviews, completes wetland delineations, habitat assessments, endangered species surveys, cultural resource reviews, and prepares permit applications. In addition, Cardno develops and implements various ATC-required environmental plans, provide project-specific environmental training, monitoring and construction observation based on site and permit requirements. Through this continuing contract, Cardno will be involved in over 35 rebuild and maintenance projects on more than 300 miles of transmission line throughout ATC's footprint in Wisconsin and Illinois. Mr. Peterson provides cultural resource technical guidance, field surveys, and technical reporting to satisfy permit conditions for state and federal agencies.

Field Crew Supervisor – American Transmission Company's Y-124 Transmission Line Upgrade and Reroute Project – Wisconsin

Cardno was hired to assist ATC with environmental services for the replacement and potential reroute of a 30-mile transmission line that crosses the Wisconsin River. The project requires replacement of more than 100 structures, which cross through sensitive resource areas including the Lower Wisconsin Riverway, a unique corridor protected by the Wisconsin Department of Natural Resources. Cardno conducted environmental and cultural resource reviews, including desktop GIS of wetlands, water bodies, cultural resources and sensitive species in the project area. We identified environmental permitting needs, and supported the permitting process by completing wetland delineations, habitat assessments, and at least six rare species surveys. Mr. Peterson supervised a cultural resources survey field crew support permitting requirements and provided technical review of the subsequent report.

Technical Oversight – Riverside Energy Center J390 Network 345kv Transmission Line Project – Wisconsin

Cardno has been hired to assist American Transmission Company (ATC) with environmental services for the Certification of Public Convenience and Necessity filing

with the Public Service Commission of Wisconsin for this new transmission line project. Cardno will be the sole environmental consultant from the routing and citing phase, through project construction and restoration. Cardno conducts environmental and cultural resource reviews, including desktop GIS of wetlands, water bodies, cultural resources, sensitive species, and multiple other concerns located within the proposed alignments. Cardno will also assist with local, state and federal environmental permitting, from identifying permitting needs, completing the necessary surveys, and acquiring permits. We will also provide environmental compliance inspection support and environmental training sessions to the construction contractors throughout project completion. As part of this project, Mr. Peterson provided cultural resources overview and technical oversight of deliverables.

Technical Oversight – ATC Line 811 Reconfiguration Project – Wisconsin

Cardno is providing environmental management for a 15-mile 138kV overhead transmission line reconfiguration project. As an integral part of the project team, Cardno is involved from initial project design through project implementation and completion. Cardno performed initial desktop and field reviews to identify potential natural and cultural resources impacts. Cardno identified and prepared project environmental documents, such as engineering design constraints, risk matrices, environmental maps, waste management plans, vegetation management plans, permitting summaries, and agency communication logs. During the final design and preparation phase, Cardno has taken the lead on preparing permit applications and their permit matrix has been utilized by multiple functional areas of the project team, including real estate, and customer and local relations. Cardno will also support the project team by providing project-specific environmental training and follow-up environmental field inspections during construction until final restoration has been completed. Mr. Peterson provided cultural resources overview and technical oversight of deliverables.

Burial Monitor – Highway 178 Gas Extensions Project Archaeological Monitoring Report of Uncatalogued Burial Site – Wisconsin

Cardno was contracted by Xcel Energy to monitor construction activities related to the installation of a new 7.08 kilometer (4.4 mile) long gas distribution line within the boundaries of uncatalogued burial site CH-0195/BCH-0110 in Eagle Point Township, Chippewa County, Wisconsin. The monitoring was conducted to ensure that human remains and cultural resources were not present within the project footprint, and with the understanding that construction would be halted in the event a burial was identified. Construction methods were consistent with those approved by the Wisconsin Historical Society and consisted of horizontal directional drilling and associated pit excavation. In summary, the installation of the gas lines within the boundaries of uncatalogued burial site Connachta, 47-CH-0195/BCH-0110 occurred with approved installation techniques and was monitored by a qualified burial archaeologist at all times. No evidence of burials or any other archaeological deposits were observed. Mr. Peterson monitored all excavation and prepared a report of findings.

Senior Consultant – Pine River Cultural Resources Cultural Resources Literature Review – Michigan

On behalf of a confidential client, Cardno conducted a cultural resources literature review for the 15,927 hectare (39,356 acre) Pine River Project (the project area) located in Gratiot and Isabella Counties, Michigan. Research focused on documenting known prehistoric and historic resources within the project area as well as a 1.6 kilometer (km) (1 mile [mi]) buffer around the project area (study area) to help to inform the potential for unidentified resources within project boundaries. The literature review indicated a total of 51 cultural resources within the study area, including 43 archaeological sites and eight historic structures. Seventeen of the archaeological sites were located within the

boundaries of the proposed project area, in addition to four known cemeteries. As a senior consultant, Mr. Peterson managed the cultural resources component of the project.

Principal Investigator/Facilitator – 2021 Texas Military Department: Annual Tribal Meeting – Paris, Texas

Cardno is currently providing the planning, organization, and facilitation services for the Texas Military Department later in 2020. Workshop and consultation participants will include Native American representatives with ancestral ties to state lands. The event requires extensive organizational effort by Cardno to contact and make travel arrangements for participants, as well as develop promotional and informational material. Mr. Peterson is the Principal Investigator/project manager for this project.

Principal Investigator/Facilitator – 2016 Texas Military Department: Annual Tribal Meeting – Austin, Texas

Cardno provided planning, organization, and facilitation services for the Texas Military Department in 2016. Workshop and consultation participants included Native American representatives with ancestral ties to state lands. The event required extensive organizational effort by Cardno to contact and make travel arrangements for participants, as well as develop promotional and informational material. Mr. Peterson was the Principal Investigator/project manager for this project.

Previous Experience

Project Manager and Technical Reviewer – Phase I Cultural Resources Investigations of Six Air National Guard Facilities – New York, Texas, Pennsylvania and Louisiana

With previous firm, Mr. Peterson served as project manager and technical reviewer for all aspects of Phase I Cultural Resources Investigations including both archaeology and historic architecture at six different facilities in four different states.

Principal Investigator/ Field Director/Project Manager – Cultural Resources Services at Muscatatuck Urban Training Center (MUTC), Indiana Army National Guard (INARNG) – Butlerville, Indiana

Prior to joining Cardno, Mr. Peterson served as archaeology Principal Investigator, archaeology field director and project manager on a diverse range of cultural resources management services for the Indiana Army National Guard at the MUTC. Archaeological services included Phase I archaeological inventory, geophysical investigations of eight prehistoric archaeological sites and two historic cemeteries, and monitoring construction activities in archaeologically-sensitive areas. Historic architectural services included historic resources survey, development of a Memorandum of Agreement, and ultimately Historic American Buildings Survey documentation of a historic district. He participated in the facilitations of six Native American Consultations relating to MUTC and assisted in preparing a Programmatic Agreement.

Project Manager and Technical Reviewer – Integrated Cultural Resources Management Plans for the Nebraska and Maryland Air National Guards and Phase I historic architectural Investigation Maine Army National Guard

With previous firm, Mr. Peterson served as project manager and technical reviewer for all aspects of Phase I Cultural Resources Investigations including both archaeology and historic architecture at six different facilities in four different states.

Project Manager and Technical Reviewer – Phase II/III Investigations of Site 12CL2 and 12CL935 for the Lewis & Clark Trail, Landstory/Town of Clarksville – Clarksville, Indiana

With previous firm, Mr. Peterson served as project manager and technical reviewer for all aspects of Phase II/III Investigations of Site 12CL2 and 12CL935 for the Lewis & Clark

Trail. He also assisted in coordination of Native American Consultation and advised on the preparation of Memorandum of Agreement for the project.

*Principal Investigator and Project Manager – Berne Cemetery Relocation, Indiana
Department of Transportation (INDOT) – Berne, Indiana*

With previous firm, Mr. Peterson served as the Principal Investigator and project manager for the investigation and relocation of a 19th century Mennonite cemetery. He coordinated with multiple INDOT staff, community of Berne, local media and numerous interested members of the community. He also worked with local officials to complete the reburial of individuals that were excavated as part of this project.

*Project Manager and Technical Reviewer – Bosserman Creek Phase II Investigation,
INDOT – LaPorte County, Indiana*

Prior to joining Cardno, Mr. Peterson served as the project manager and technical reviewer of a Phase II archaeological testing of a historic site in advance of proposed bridge and associated approach improvements.

*Principal Investigator – Geophysical Investigation of Sections of Jefferson Barracks,
Missouri Army National Guard – St Louis, Missouri*

Prior to joining Cardno, Mr. Peterson served as the Principal Investigator for a three-acre survey using a combination of resistance and magnetometer. The area survey focused on a series of stables and barracks built prior to World War I (WWI). Geophysics identified coalbunkers, outbuildings, fencing, walkways, and structural remnants of a demolished barracks and blacksmith shop. Geophysics was used to direct a highly-focused archaeological excavation strategy of different ancillary structures associated with the various barracks locales.

*Project Manager and Principal Investigator – Phase I Archaeological Investigation for the
White River Greenways Trail, CMT / INDOT – Indianapolis, Indiana*

While with a previous firm, Mr. Peterson served as the project manager and Principal Investigator for a Phase I archaeological investigation for proposed trail improvements along the White River.

*Principal Investigator and Project Manager – Phase II investigations at sites 12JN447,
449, 472, 478, and 485 at the MUTC, Indiana Army National Guard – Butlerville, Indiana*

Prior to joining Cardno, Mr. Peterson served as the Principal Investigator and project manager for the Phase II archaeological testing of five prehistoric sites at the MUTC. He also served as a technical reviewer for all deliverables.

*Native American Consultation and Programmatic Agreement, Indiana Army National
Guard (INARNG) – Indianapolis, Indiana*

While with a previous firm, Mr. Peterson coordinated and planned logistics in association with a Native American Consultation with the INARNG for development of the MUTC. He also collaborating with other firm staff to complete a Programmatic Agreement based on the consultation.

*Principal Investigator and Project Manager – Whitesell Cemetery Relocation, I INDOT –
Indiana*

Prior to joining Cardno, Mr. Peterson served as the Principal Investigator and project manager for excavation and relocation of a historic nineteenth century cemetery that will be impacted by a proposed road expansion.

Project Manager and Field Director – Phase I Archaeological Investigation for the White River Greenways Trail, INDOT – Indianapolis, Indiana

While with a previous firm, Mr. Peterson served as project manager and field director for a Phase I archaeological investigation for proposed trail improvements along the White River.

Native American Consultation and Programmatic Agreement, INARNG

While with a previous firm, Mr. Peterson coordinated and planned logistics in association with a Native American Consultation with the INARNG for development of the MUTC. He also collaborated with other firm staff to complete a Programmatic Agreement based on the consultation.

Co-field Supervisor – Geophysical Survey for Data Recovery at Site 33WA407, Ohio Department of Transportation – Warren County, Ohio

Prior to joining Cardno, Mr. Peterson served as co-field supervisor for a geophysical survey of a Shaker Village site in southwest Ohio that dates from the early nineteenth century. The site had no above ground indications of structure locations. A detailed geophysical survey of the entire village was completed in an effort to focus the pending Phase III excavations. A resistance and magnetometer survey were completed over the four- acre site. Survey results identified structures, wells, privies, flagstone paths, driveways, and footpath.

Project Manager and Field Director - Phase I Archaeological Reconnaissance and Deep Testing of the Proposed Bridge Replacement and Approach on CR1117 – Browning Corner – McKinneysburg Road over the Licking River, Pendleton County, Kentucky

Prior to joining Cardno, Mr. Peterson served as project manager and field director for a series of Phase I level archaeological investigation along a proposed approach and bridge replacement at the junction of CR1117 and the Licking River. The investigations consisted of deep reconnaissance involving the excavation of backhoe trenches as well as simple ground surface examination and near-surface shovel probing. Mr. Peterson prepared the two required reports of findings for these investigations.

Phase III Data Recovery for a Proposed Water/Sewage Line – Deering, Alaska

Mr. Peterson was responsible for supervising and training a crew of Deering residents and volunteers for the Phase III water/sewer line mitigation project. He was responsible for mapping and assisting with artifact conservation. He also consulted with local political officials regarding excavation plans and the excavation protocol for human remains.

Phase I Forest Burn Survey, Mark Twain National Forest – Southwest Missouri

Prior to joining Cardno, Mr. Peterson was responsible for survey and documentation of historic and prehistoric cultural resources in areas scheduled for controlled burning. He was responsible for generating field maps, photography, and assisting with preliminary analysis.

Phase II/III investigation at Tin City Long Range Radar Site – Alaska

Prior to joining Cardno, Mr. Peterson was responsible for completing all aspects of the project. He developed the research design as well as the general excavation strategy, in association with Roger Harritt, Principle Investigator. Mr. Peterson managed the crew throughout the project, which included the training of inexperienced personnel. He established and operated the field laboratory, which included artifact conservation and cataloguing and was responsible for the analysis of the entire collection. It consisted of

both historic and late prehistoric artifacts associated both with the traditional Eskimo community that formerly existed at the location as well as artifacts that were a result of historic mining and military activity. Mr. Peterson also wrote the archaeology section of the final report with contributions from Roger Harritt.

Crew Chief – Phase III Mitigation - Point Franklin Maritime Archaeology Project – Point Franklin, Alaska

Prior to joining Cardno, Mr. Peterson served as a Crew Chief for the excavation of dwellings that were part of the Thule whaling culture. He was responsible for supervising and training a broad range of students, volunteers, and residents from nearby villages. The excavation included the identification and removal of human remains. Mr. Peterson consulted with project directors and contributed to decisions regarding excavation strategy.

Project Manager and Field Director – Phase I Archaeological Reconnaissance of the Proposed East Dry Ridge Connector – Grant County, Kentucky

While with a previous firm, Mr. Peterson served as project manager and field director for a Phase I archaeological investigation for a Kentucky Transportation Cabinet project in Grant County, Kentucky.

Project Manager and Field Director – Phase I Archaeological Reconnaissance for a Proposed Bridge Replacement at Fegenbush Lane over Fern Creek – Jefferson County, Kentucky

While with a previous firm, Mr. Peterson served as project manager and field director for a Phase I archaeological investigation for a Kentucky Transportation Cabinet project in Jefferson County, Kentucky.

Project Manager and Field Director – Intensive Phase I Archaeological Investigation of the Proposed Realignment of KY1247 – Pulaski County, Kentucky

While with a previous firm, Mr. Peterson conducted a Phase I survey for Palmer Engineering.

Intensive Phase I Archaeological Investigation of a Proposed Access Road near Jenny Wiley State Park – Floyd County, Kentucky

While with a previous firm, Mr. Peterson conducted a Phase I survey for T.H.E. Engineering, Inc.

Assistant Crew Chief – SPEARS Inc. – Lawrence County, Arkansas

Prior to joining Cardno, Mr. Peterson conducted a Phase I survey for a proposed waterline. The survey included the following sites: 3LW718, 3LW719, 3LW101, 3LW366, 3LW558, and 3LW559. Mr. Peterson was responsible for excavating shovel test probes, survey of ground surface, site identification and documentation, and mapping.

Crew Chief – Wolf House Phase III Mitigation – Norfolk, Arkansas

Prior to joining Cardno, Mr. Peterson conducted Phase III mitigation of the Wolf House (3BA368). Mr. Peterson was responsible for excavation, mapping, and documentation of the oldest municipal structure in Arkansas. Following excavation, he was responsible for the analysis of historic artifacts from the 19th and early 20th centuries. Tours of the sites were also given to community members and school children. Supervision was provided to two amateur archaeologists.

Research Associate – University of Arkansas – Fayetteville, Arkansas

Prior to joining Cardno, Mr. Peterson was responsible for working on two National Science Foundation funded projects. He was responsible for assisting with research relating to whaling in the Western Arctic. He also assisted with the organization of a conference that addressed research conducted in Arctic North America. The second grant involved the development of a web site ('Traditional Whaling in the Western Arctic') designed encourage interaction between Native Alaskan whalers and scientists conducting research related to whaling. The web site also serves to educate and inform the general public about the long history/prehistory of whaling in the Western Arctic. His duties included web site design, organization, and editing. He also was responsible for contacting and coordinating the efforts of various members of the research team. As part of the project, he travelled to three villages on the North Slope of Alaska to assist with follow-up meetings held with local Whaling Captain Associations and to get feedback on the web site from whaling community members.

Field Supervisor – Prámides de Güímar – Tenerife, Canary Islands, Spain

Prior to joining Cardno, Mr. Peterson tested a pyramid structure on Tenerife, Canary Islands, Spain. He participated in the development of the excavation strategy and was directly involved with its implementation. He was also responsible for assisting with logistical support for the project as well as training and supervising volunteers.

Field Technician – Rhodes Cemetery Relocation – Indianapolis, Indiana

Prior to joining Cardno, Mr. Peterson participated in the excavation and relocation of the historic Rhodes Cemetery in Indianapolis, Indiana. Mr. Peterson was responsible for the excavation and documentation of human burials. His duties included bone identification and assisting less experienced personnel with excavation.

Co-Field Director – Shaker Village Site Geophysical Survey – Southwestern Ohio

Prior to joining Cardno, Mr. Peterson served as co-field director for the investigation of a Shaker Village site that dates from 1815 to approximately 1915. The site has no above ground indications of structure locations. In an effort to focus the pending Phase III excavations a detailed geophysical survey of the entire village was completed. A resistance and magnetometer survey were completed over the 4 acre site. Survey results identified structures, wells, privies, flagstone paths, driveways and footpaths.

Project Director – Dearborn County Home Cemeteries Geophysical Investigation – Dearborn County, Indiana

Prior to joining Cardno, Mr. Peterson served project director for the investigations of two county home cemeteries for the Dearborn County Cemetery Commission. Multiple graves were identified and ultimately restored, past excavation damage had damaged a portion of the cemetery.

Principal Investigator and Field Director – Phase I Archaeological Investigation OHARNG – Ravenna, Ohio

Prior to joining Cardno, Mr. Peterson conducted a Phase I archaeological investigation of approximately 400 acres of the Ravenna Training and Logistic Site. The investigation involved coordination relating to the application of a predictive model as well as working around areas that were designated as contaminated.

Principal Investigator and Field Director – Guard Cemetery Boundary Delineation

Prior to joining Cardno, Mr. Peterson conducted a cemetery delineation. The project included geophysical investigation, mechanical stripping, and limited shovel probing to identify the boundaries of the prehistoric archaeological site adjacent to the cemetery

Co-Principal Investigator and Field Director – Eagle Mountain Lake Cemetery Geophysical Investigation, Texas Army National Guard (ARNG) – Central Texas

Prior to joining Cardno, Mr. Peterson conducted geophysical investigation to delineate the boundaries of nineteenth century cemetery in central Texas.

Co-Field Director –Camp Dawson, NGB Phase I Survey and Sensitivity Modeling – Kingwood, West Virginia

Prior to joining Cardno, Mr. Peterson conducted a 1200 acre survey of the Briery Mountain Training area of Camp Dawson. The project identified a total of 15 sites within the Briery Mountain tract.

Principal Investigator and Field Director – Somerset Bypass Phase I Survey, Kentucky Transportation Cabinet – Kentucky

Prior to joining Cardno, Mr. Peterson conducted an investigation of more than 16 miles of new right-of-way and coordination with over 200 landowners. During the course of the investigation, 56 previously undocumented archaeological sites were recorded.

Principal Investigator and Co-Author – OHARNG Phase I Archaeological Investigation for a Timber Sale – Ohio

Prior to joining Cardno, Mr. Peterson completed a Phase I archaeological investigation of a 200 acre parcel.

Principal Investigator and Co-Author – INDOT Bridge #34 Phase IC Deep Trenching – Orange County, Indiana

Prior to joining Cardno, Mr. Peterson completed a deep trenching project completed in advance of a proposed bridge replacement.

Principal Investigator and Co-Author – INDOT Phase IC Deep Trenching - Bridge #6 – Warren County, Indiana

Prior to joining Cardno, Mr. Peterson completed a deep trenching project completed in advance of a proposed bridge replacement.

Principal Investigator – Forensic Geophysical Investigation, Shawnee Hills, Ohio

Prior to joining Cardno, Mr. Peterson conducted a geophysical investigation that was conducted in support of the Indiana State Police. The project was completed in support of a 20+ year old murder investigation.

Principal Investigator – Geophysical Cemetery Investigation (NCDOT) – Mars Hill, North Carolina

Prior to joining Cardno, Mr. Peterson conducted a geophysical investigation of a historic cemetery in Mars Hill, North Carolina. Suspected unmarked grave shafts were subsequently investigated with probes for the presence of environmental contaminants.

Assistant Crew Chief – Phase I / II Investigations for Proposed Gravel Borrow Pit at the Thompson Creek Site (3IN1310) – Independence County, Arkansas

Prior to joining Cardno, Mr. Peterson was responsible for conducting shovel test probes as well as digging test units on the landforms in the vicinity of the proposed borrow pit. He was also responsible for mapping the identified sites. Both prehistoric (dating to the archaic period) and historic resources were encountered in addition to the Thompson Creek Site. The historic sites included a former house site with a well and a brick kiln.

Assistant Crew Chief – Ouachita National Forest Phase I Survey and Shovel Testing – Arkansas

Prior to joining Cardno, Mr. Peterson was responsible for digging shovel test probes, mapping and documentation of historic and prehistoric cultural resources, and subsequent analysis.

Research Assistant – Development of the North American Database of Archaeological Geophysics Web Site – Arkansas

Prior to joining Cardno, Mr. Peterson was responsible for assisting with web site development, database management, and correspondence relating to near-surface archaeological prospection techniques in North America. The project director has continued to improve on the site, making it one of the most valuable Internet resources available on the topic.

Crew Chief – Phase I Sewer Line Survey for Three Alaskan villages – Alaska

Prior to joining Cardno, Mr. Peterson was responsible for evaluating areas to be disturbed by sewage line construction in the villages of Brevig Mission, Kotzebue, and Galena, Alaska.

OHARNG Native American Consultation – Ohio

Prior to joining Cardno, Mr. Peterson coordinated and planned all logistics in association with a Native American Consultation with the Ohio ARNG for the development of the OHARNG properties.

Project Manager – Old Berne Mennonite Cemetery – Adams County, Indiana

While with a previous firm, Mr. Peterson served as project manager for the excavation and relocation of a historic nineteenth century cemetery that will be impacted by a proposed road expansion. The work was conducted for the INDOT. When completed the investigation will result in documentation and removal of 135 burials with an interment range from the 1850s to 1900. In advance of the field work, the team completed a Phase I investigation, geophysical investigation of the cemetery, and a historic architectural assessment of a historic district surrounding the cemetery.

Project Manager and Principal Investigator – INARNG MUTC 10 Sites Archaeo-geophysical Investigations – Jennings County, Indiana

Prior to joining Cardno, Mr. Peterson conducted a geophysical investigation of eight prehistoric archaeological sites and two historic cemeteries. The work was conducted to aid in further archaeological excavation at the sites and to better characterize the archaeological deposits.

National Guard Bureau/Louisiana Air National Guard - Native American Consultation and Repatriation of an Unanticipated Discovery of Human Remains – New Orleans, Louisiana

Prior to joining Cardno, Mr. Peterson aided in and facilitated the reburial after an inadvertent discovery of human remains occurred at Jackson Barracks, Orleans Parish in New Orleans, Louisiana. The Seminole Tribe and Seminole Nation requested the human

remains be reinterred under the building where they were found with all of the associated artifacts.

Project Manager and Reviewers – Ohio ARNG Integrated Cultural Resources Management Plan (ICRMP) – Columbus, Ohio

Prior to joining Cardno, Mr. Peterson acted as project manager and reviewer for the Ohio ARNG ICRMP, including revising ICRMP for Ohio Army National Guard (OHARNG) facilities located throughout the state of Ohio. Standard operating procedures for inadvertent discovery, Native American Graves Protection and Repatriation Act compliance, and the need for an ethnographic study were included in this ICRMP. This contract also included organizing the first Native American Consultation Workshop held by the OHARNG and coordinating the Native American perspectives into the ICRMP.

Geophysical Technician – Granite Falls Alternate Route, Snohomish County Public Works – Washington

Prior to joining Cardno, Mr. Peterson served as the Geophysical Technician on multiagency project that included WSDOT, DAHP, City of Granite Falls, Tulalip Tribes, Stillaguamish Tribe of Indians, Sauk-Suiattle Tribe, Snoqualmie Tribe, and Snohomish County Public Works. Conducted geophysical data acquisition and assisted with coordination of the results to help guide excavations at two sites.

Facilitator and Organizer – Native American Consultation and Workshop Experience – Nationwide

Mr. Peterson has experience organizing and facilitating successful Native American Consultation ten years of experience conducting consultation workshops. Mr. Peterson has helped plan and organize, and participated in 15 consultations and workshops for the ARNG and Air National Guard in nine states, including Indiana, Louisiana, Kentucky, Ohio, Oklahoma, Pennsylvania and West Virginia.

National Guard Bureau / Louisiana ANG Native American Consultation and Repatriation of an Unanticipated Discovery of Human Remains

This project was completed for the National Guard Bureau, ANG Environmental Division, Environmental Planning Branch (NGB / A7CVN). An inadvertent discovery of human remains occurred at Jackson Barracks, Orleans Parrish, New Orleans, Louisiana. The Louisiana ARNG initially assumed the lead role (assuming this was a state property issue) in dealing with the discovery, as they are the property manager for the majority of the facility. Tribal consultation was initiated and the human remains and associated artifacts excavated. Real estate records subsequently indicated the ANG controlled the lease on the property where the burial were discovered, and the Base Realignment and Closure (BRAC) action that would result in transfer of the property to the Louisiana ARNG had not yet been completed. The BRAC action was a federal undertaking and the property was under a federal lease to the ANG, thereby triggering the Native American Graves Protection and Repatriation Act (NAGPRA) process. Mr. Peterson became directly involved with the project, and the ANG contracted his previous firm to assist with Native American Consultation. Mr. Peterson aided in facilitation, organization, and initiation of the first ANG-led consultation. The result of the consultation was that all other interested tribes deferred to the Seminole Tribe of Florida and the Seminole Nation of Oklahoma for decisions relating to handling and disposition of the human remains, based on compelling archaeological and archival evidence that the remains were Seminole. The Seminole Tribe and Seminole Nation requested the human remains be reinterred under the building where they were found with all of the associated artifacts.

Mr. Peterson then helped to coordinate the reburial. The existing contract was modified to accommodate the additional tasks. Mr. Peterson worked with Dr. David Morgan, the

person responsible for the initial excavation, to re-inter the human remains and associated materials at the Seminole Tribe's request. This process was monitored throughout by a representative from the Seminole Tribe of Florida. The Seminole Nation of Oklahoma also sent representatives, and a private ceremony was held at the burial site upon conclusion of the reburial.

Standiford Airfield NAGPRA Project – Louisville, Kentucky

Archaeological site 15JF267 was discovered in August 1972, when bulldozers uncovered human remains and artifacts during construction activities. The site was located on land leased by the Federal Shewmaker Air Base from the Louisville Airport Authority, in Louisville, Kentucky. Archaeologists of the Louisville Archaeological Survey subsequently recovered human remains, numbering 51 individuals and 150,000 artifacts. NAGPRA applied in this case, as the remains were recovered during a federal undertaking on land leased by the Kentucky ANG. Mr. Peterson assisted with the consultation to determine the disposition of the human remains, with the federally recognized tribes of the Absentee Shawnee, Eastern Band of the Shawnee, Shawnee Nation of Oklahoma, Eastern Band of the Cherokee, Chickasaw, and Cherokee Nation of Oklahoma attending as well as the National Guard Bureau and state historic preservation agencies. The consultation initiated an effort to document the remains and artifacts for the Park Service, develop a disposition plan to support remains reburial, a skeletal biology report on the remains, and coordination with state and federal agencies and the Louisville Airport Authority.

Lewis and Clark Trail – Clarksville, Clark County, Indiana

Mr. Peterson assisted the Town of Clarksville with archaeological and other consulting services associated with Lewis and Clark Trail in southern Clark County, Indiana, as part of a Federal Transportation Enhancement Grant administered by the Indiana Department of Transportation (INDOT). The trail extends across a number of previously-identified archaeological sites, two of which required Phase II evaluation. The archaeological sites of Newcomb (12CL2) and M. Kraft (12CL935) had been previously recommended as either eligible or potentially eligible for inclusion on the NRHP.

The Native American Mississippian and Late Woodland occupations were of particular concern. Both occur relatively near the surface and have the greatest potential to be impacted by construction of the Lewis and Clark Trail. The Phase II investigation demonstrated that the Newcomb site has important archaeological information relevant to understanding early Native American cultures of the Falls area as well as early settlement of Clarksville after the Revolutionary War and during the nineteenth century.

Mr. Peterson worked with local, state, and federal agencies and project engineers to limit the impact of the proposed trail design on the important archaeological deposits and use the trail as a means of helping preserve the archaeology by protecting portions of the site using the trail. This approach was particularly important due to the discovery of two prehistoric burials encountered during investigations at the Newcomb site. Mr. Peterson worked closely with the Federal Highway Administration (FHWA), INDOT, Town of Clarksville, and federally recognized Native American tribes to develop plans to protect the burials and proceed with trail construction.

Certifications

- > Meets the Secretary of the Interior's Standards and Guidelines for Archaeology and Historic Preservation, 48 FR. 44716
- > Qualified Professional Archaeologist in Indiana

Continuing Education

- > Section 106 Training Course, Ohio Department of Transportation, Office of Environmental Services, 2016
- > Section 106 Principles and Practice by the SRI Foundation and conducted at the request of the INDOT, 2007
- > Section 4(f) of the Transportation Act, INDOT, 2006
- > Thinking Beyond the Pavement Workshop, Kentucky Transportation Cabinet, 2003
- > Near Surface Prospection, University of Arkansas, 2001

Presentations

- > "Innovative Uses of LiDAR for Cultural Resource Investigations." Ohio Transportation Engineering Conference, October 2016.
- > "Recent Geophysical Research Conducted at Fort Hood, Texas." Co-presented with Duane Simpson. Society for American Archaeology, Austin, Texas. April 2007.
- > "Non-Destructive Evaluation Techniques of Archaeological Sites." Co-presented with Duane Simpson and Dr. Cheryl Huckerby. 2007 Society for Historical Archaeology conference, Williamsburg, Virginia, January 2007.
- > "Geophysical Investigation of Historic Cemeteries." Advanced Cemetery Preservation Workshop, organized by the Indiana Historical Society and the Indiana Department of Natural Resources / Department of Historic Preservation and Archaeology. August 2005.
- > "Near Surface Geophysical and Soil Testing for Non-Invasive Burial Determination: A Study of Eight Prehistoric and Historic Sites: Fort Hood, Texas and Camp Lejeune, North Carolina" Co-presented with Duane Simpson, Dr. Cheryl L. Huckerby, Rick Richardson, and Dennis Glinn. Department of Defense Conservation Conference, Savannah, Georgia. August 2004.
- > "A Pilot Study: Using Geophysics to Locate Rockshelter Burials, Fort Hood, Texas." Poster Presentation with Duane Simpson. 69th Society for American Archaeology Meeting, Montreal, Canada. April 2004.
- > "Using Geophysics to Locate Rockshelter Burials at Fort Hood, Texas." Co-presented with Duane Simpson. 69th Society for American Archaeology Meeting, Montreal, Canada. April 2004.
- > "Thule Occupation of Deering." Co-presented with Richard Reanier, Anne Jensen, and Glenn Sheehan. 64th Annual Society for American Archaeology Meeting, Chicago, Illinois. April 1999.
- > "Preliminary Results from the 1998 Field Season, Deering, AK." 6th Annual Arctic Archaeology Conference, University of Arkansas, Fayetteville, Arkansas. October 1998.
- > "An Archaic Rockshelter Burial from Daviess County, Indiana." 3rd Annual Midwest Bioarchaeology and Forensic Anthropology Association Meeting, Kalamazoo, Michigan. November 1996.

Reports

- > Simpson, D. and R.J. Peterson. 2006. Phase IC Archaeological Deep Testing of the Proposed Bridge No. 34 Replacement over Lick Creek, Orange County, IN. Submitted to Bernardin, Lochmueller and Associates and INDOT.
- > Peterson, R.J., Andrews, S., and Wetzel, M. 2006. Phase I Archaeological Reconnaissance Survey for a Proposed Engineer School and Ranges at the Ravenna Training and Logistics Site, Windham and Paris Townships Portage County, Ohio. Submitted to the Ohio ARNG.

- > Peterson, R.J., Stallings, R, Simpson, D., and Mathia Scherer 2006. A Phase IA Archaeological Investigation for the MUTC, Campbell Township, Jennings County, Indiana. Submitted to the Indiana ARNG.
- > Peterson, R.J., D. Simpson, R. Stallings, and M. French. 2005. Phase II Investigation of Site 15PU432, Somerset, KY. Submitted to the Kentucky Transportation Cabinet.
- > Peterson, R.J. 2005. A Phase I Archaeological Investigation for the Proposed LHP Software Building, Bartholomew County, Indiana. Submitted to LHP Software.
- > Simpson, D.B. and R.J. Peterson, 2004. Non-Invasive Burial Determination using Near-Surface Geophysical Survey and Soil Chemical Testing at Fort Hood, Texas and Camp Lejeune, North Carolina. United States Army Fort Hood Archaeological Resource Management Series, Research Report No. 55.
- > Peterson R.J. and, D.B. Simpson 2004. Archaeo-Geophysical Investigation of Sections of the Emmanuel A.M.E. Church and Former Glasgow Street Location of the Church, Portsmouth, Virginia. AMEC Earth & Environmental, Louisville. Submitted to Norfolk State University, Norfolk, VA.
- > Peterson, R.J. 2002. *Phase II Archaeological Investigation of Site 15PU398, Pulaski County, Kentucky*. Survey conducted for Pulaski County Public Safety. AMEC report no. 02-043.
- > Peterson, R.J. 2002. *Phase II Archaeological Investigation of Site 15PU432, Pulaski County, Kentucky*. Prepared for Johnson, Depp, & Quisenberry and the Kentucky Transportation Cabinet.
- > Peterson, R.J., C. Jolles, and Roger Harritt. 2001. *Archaeological and Oral History Field Investigations at Tin City Long Range Radar Site, Alaska*. Environment and Natural Resources Institute - University of Alaska Anchorage. Submitted to U.S. Air Force 611 Air Support Group.
- > Peterson, R.J. 2000. An Analysis of the Alvin R. Cahn Collection - Stone Tools from Amaknak Island, Alaska and Surrounding Vicinity. Master's Thesis, Submitted to the University of Arkansas.

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Summary: Testimony - Direct Testimony of Ryan J. Peterson electronically filed by
Christine M.T. Pirik on behalf of Yellow Wood Solar Energy, LLC