

KENTUCKY PUBLIC RIVERPORT CONSTRUCTION AND MAINTENANCE (KPRCM) APPLICATION

INSTRUCTIONS: A guidance document is provided to assist in completing the application packet and may be accessed at <https://transportation.ky.gov/MultimodalFreight/Pages/KPRCM.aspx>
See the guidance document for required attachments and acceptable methods of submittal.

SECTION 1: APPLICANT INFORMATION

PUBLIC RIVERPORT NAME		TOTAL PROJECT COST	KPRCM FUND REQUEST
West Kentucky Regional Riverport Authority (WKRRA)		\$250,000.00	\$250,000.00
STREET ADDRESS	CITY	STATE	ZIP
437 Ohio Street	Wickliffe	KY	42087
CONTACT NAME & TITLE	PHONE	EMAIL	
Jerry Pace, Ballard Co. EDC Director	270.559.1487	jppace@brtc.net	

SECTION 2: PROJECT DESCRIPTION

PROJECT TITLE	DURATION
Archaeological Excavation of Fort Jefferson (15Ba174, 15Ba48) Ballard Co	2 months weeks

FACILITIES AFFECTED BY THE PROPOSED PROJECT

☐ Owned by Riverport Authority ☒ Leased to:

Briefly describe how the project will improve public riverport facilities and infrastructure, to capture the economic and trade potential offered by water transportation.: (Text limited for accurate printing. Attach additional pages as needed.)

WKRRA is proposing to develop a new 19-acre inland riverport located on the eastern bank of the Mississippi River near the 950 river mile in Ballard County. This site is home to the former Fort Jefferson, located in the valley of Mayfield Creek. To date, the WKRRA has executed an agreement with Phoenix Paper for Right Entry access to the proposed riverport site, HDR, inc. has completed the wetlands and Section 7 habitat study, and an agreement has been executed with Cultural Resource Analysts, Inc. (CRA) to conduct the Phase 1 archaeological investigation for the proposed site. Stage 1 is scheduled for completion by June 2026. This funding request will be utilized to execute Stage 2 of the archaeological investigation. This will include hand-excavation, examination of artifact concentrations, anomalies, and areas that may contain intact subsurface deposits. All artifacts collected will be catalogued and donated to the Fort Jefferson Museum. The probable archaeological deposits will yield new and significant information pertaining to one of the three westernmost American forts during the American Revolution, as well as to the historical settlement and development of Ballard County and the Mississippi Embayment Region of Kentucky. Completion of the archaeological investigation will allow WKRRA to develop the riverport.

Select ONE: ☐ Applicant plans to use their own manpower, equipment, or materials on the project (Force Account).
☒ Applicant plans to competitively bid out all work related to the project.

TRAFFIC	CURRENT	AFTER PROJECT
Trucks per day	0	0
Train cars per week	0	0
Barges per week	0	0

FOR KYTC USE ONLY

Date Received: Application Complete? <input type="checkbox"/> Yes <input type="checkbox"/> No Eligible Applicant? <input type="checkbox"/> Yes <input type="checkbox"/> No Permits Needed? <input type="checkbox"/> Yes <input type="checkbox"/> No	WTAB Approval <input type="checkbox"/> Yes <input type="checkbox"/> No Sec. Approval <input type="checkbox"/> Yes <input type="checkbox"/> No Award Amount: _____ Award Date: _____	Notification of Award: _____ MOA #: _____ Notice to Proceed: _____
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**KENTUCKY PUBLIC RIVERPORT CONSTRUCTION AND MAINTENANCE (KPRCM) APPLICATION****SECTION 3: PERMITS AND APPROVALS**

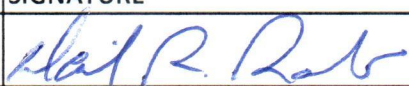
	YES	NO
Has the applicant consulted with state and federal agencies (US Army Corps of Engineers, US Coast Guard, US Fish & Wildlife Service, KY Division of Water, KY Heritage Council, etc.)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Has state and federal agency consultation determined permits are needed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Have all required permits (environmental, encroachment, etc.) been obtained?	<input type="checkbox"/>	<input checked="" type="checkbox"/>

SECTION 4: SUBMISSION CHECKLIST *(See guidance document for details.)*

- ☒ Kentucky Public Riverport Construction and Maintenance Application
- ☒ Statement of Work
- ☒ Scope of Work
- ☒ Purchase quote or cost estimate for the project
- ☒ Project Schedule/Timeline
- ☒ Maps, aerial photos, drawings, and photographs, as needed
- ☒ Engineering plans, schematics, details, drawings of the proposed project, as needed
- ☒ Copies of all correspondence or evidence of consultation that has occurred with state and federal agencies, if applicable
- ☒ Required Affidavit for Bidders, Offerors and Contractors from applicant

SECTION 5: CERTIFICATION

I have read the Kentucky Public Riverport Construction and Maintenance Project Guidance Document and understand and agree to abide by what is stated therein. I agree that incomplete applications, applications missing any of the above required supporting documents, or applications received after the deadline, will be deemed ineligible by Division staff without consideration for KPRCM funds and returned to applicant. I also hereby certify, subject to the provision of KRS 523.100 (unsworn falsification to authorities), that the above information is true and correct to the best of my knowledge.

PRINTED NAME & TITLE	SIGNATURE	DATE
David Rambo, Chair		10/10/2025

Completed applications and all required attachments must be submitted electronically in PDF format. Paper copies will not be accepted. Emailed applications must be received by the Division by date indicated in call for projects. PDF copies shall be sent via email to: KYTC.ModalPrograms@ky.gov

Proposal for the Stage II Archaeological Excavations (National Register of Historic Places Evaluation) of Fort Jefferson (15Ba174 and 15Ba48), Ballard County, Kentucky

September 4, 2025

Submitted to:

Oliver Douthitt, EIT, PMP
GEO Consultants Corporation
325 Kentucky Ave
Kevil, KY, 42053
Office: (270) 462-3882
Cell: (270) 564-8746
Fax: (270) 462-2396
douthitto@geoconsultantscorp.com

Project Identification

Fort Jefferson (15Ba174 and 15Ba48)
Ballard County, Kentucky
Wickliffe Quad
CRA Proposal No. KY23P-0414

Introduction

This proposal is for the National Register of Historic Places (NRHP) evaluation of Fort Jefferson (15Ba174) and Block House 3 and two period house lots (15Ba48).

In 2023, CRA submitted a proposal for four stages of investigation. The stages of investigation include:

- I. Remote Sensing, Coring, and Metal Detecting
- II. Test Unit Excavation
- III. Mechanical Stripping
- IV. Feature Excavation

In 2024, CRA submitted a geophysical and metal detecting proposal of the sites (Stage I Investigations). Stage I fieldwork is anticipated to begin in December of 2025, and Stages II–IV at some future indeterminate date. At the request of Kim Morris of Geo Consultants Corporation, Stages II–IV have been subdivided into tasks in anticipation of grant funding to cover associated costs. Stage II consists of the excavation of test units at the sites to determine the presence or absence of intact sedimentary units and archaeological deposits, to field verify the results of geophysical investigation, and to determine the sites' NRHP eligibility.

Scope of Services

The archaeological excavations to determine the sites' NRHP eligibility will follow the current *Specifications for Conducting Fieldwork and Preparing Cultural Resource Assessment Reports* (Sanders 2017) issued by the Kentucky SHPO and standard archaeological methods.

NRHP Evaluation Goals

The goals of the project are to document and recover data relating to the occupation, use and site structure of Fort Jefferson within the areas identified by Mabelitini and Carstens. The excavations will serve to flesh out details of the Fort and civilian community of Clarksville to compare with historic documents and historic accounts of fort activity.

The NRHP significance of the site will be assessed on its potential to provide important information about the history and prehistory of the region. For a site to be considered significant they must contain data (features, artifacts, and ecofacts) that can be used to answer research topics or questions of local or regional importance and presented in The Kentucky State Plan. NRHP fieldwork and analysis are designed to:

1. Determine the presence or absence of subsurface features or intact archaeological deposits.
2. Determine the general intra-site spatial characteristics, i.e., the spatial distribution of features and artifact types and the co-occurrence or clustering of features and artifacts.
3. Determine the classes of archaeological remains retrievable.
4. Determine the archaeological integrity of the remains.
5. Place the sites within the regional precontact and historic cultural context.
6. Recover Eighteenth century artifacts that will be displayed at the proposed Fort Jefferson Museum.

Field Research

The phase I archaeological survey identified several undisturbed areas containing potentially significant archaeological deposits within sites 15Ba174 and 15Ba48 that were recommended for avoidance or additional archaeological work (Mabelitini 2021). These areas include archaeological deposits associated with the 1780–1781 settlement and defenses of Fort Jefferson and Clarksville including the main fort, a block house and residential area. It was recommended that a staged approach be employed for the investigation. This scope of services includes Stage II.

Stage II Unit Excavation

The Stage II NRHP evaluation will include hand-excavating a maximum of 20 units measuring 1-x-1 m in size at Site 15Ba174 and 10 units at 15Ba48 (Table 1). These units will be placed in such a way as to examine artifact concentrations, anomalies identified during the remote sensing assessment, and areas that may potentially contain intact subsurface deposits. These units will also help identify stratigraphic deposits if present. Unit excavation will rely heavily on shallow shovel skimming. Units will be excavated by 10 cm arbitrary or natural levels as appropriate to increase the resolution of patterning and association. The plow zone will be treated as a discrete stratigraphic unit and, therefore, will be excavated as a single unit (e.g., not in arbitrary levels). Artifacts collected from each site will be bagged by unit and level. Each artifact bag will be logged in a standardized inventory form and assigned a unique bag number. Site sediments will be passed through traditional 0.25-inch mesh shaker screens. Standardized level forms will be completed for

each level excavated. All rough rock will be counted, size graded, and weighed. At least one wall of each unit will be profiled and photographed. The location of test units will be referenced to the site grid.

Table 1. Proposed Test Unit Excavations.

Site	Number of 1-x-1 m Test Units	Estimated Number of 10 cm Levels	Total Cubic Meters
15Ba174	20	100	10.0 m ³
15Ba48	10	50	5.0 m ³
Totals	30	150	15.0 m ³

A maximum of 5 features will be excavated, three at 15Ba174 and two at 15Ba48, including two large features (larger than 80 cm in diameter, greater than 60 cm deep) and three medium-sized features (40–80 cm in diameter, 30–60 cm deep). Any additional features encountered will be photographed, their locations will be recorded, and they will be covered in black plastic. When subsurface features are encountered, each will be assigned a unique identification number, their maximum dimensions measured, sketched, and photographed. The location of each feature will be referenced to the site grid, depth below the datum, and depth below the ground surface. A standardized feature record will be completed for each feature investigated. A flotation sample of about 10 liters may be collected from features or zones within features that contain primary deposits, which may include small artifacts and/or botanical materials. The total number of floats will not exceed 5.

Laboratory Analysis

It is anticipated that with the guidance of geophysical investigations and metal detecting, no more than 300 artifacts per test unit will be recovered (9,000 artifacts total).

All recovered artifacts will be returned to the CRA laboratory at Lexington, Kentucky, for cleaning, analysis, and cataloging following standard practices. Initial processing of recovered artifacts involves washing all artifacts, sorting the artifacts into the major material classes (i.e., ceramic, faunal, historic, and lithic) for further analysis, and assigning catalog numbers. In general, catalog numbers consisted of the site number and a unique number for each provenience lot or diagnostic specimen.

Up to three radiocarbon samples may be submitted to the University of Georgia's Center for Applied Isotope Studies for Radiocarbon AMS analysis.

Considering that the excavations will target areas of high potential, we estimate no more than 9,000 artifacts will be recovered during the NRHP evaluation. We anticipate that no more than 10 boxes of materials will be recovered. If the cannon that was reportedly left behind after the evacuation of Fort Jefferson is recovered, CRA will work with the client on appropriate measures for its conveyance to the museum.

Deliverables

The results of the geophysical analysis, metal detecting, and coring (Stage I), and NRHP eligibility determination (Stage II) will be documented in a detailed written report. The report will conform to *Specifications for Conducting Fieldwork and Preparing Cultural Resource Assessment Reports* issued by the Kentucky State Historic Preservation Office. Additionally, an updated site survey form will be prepared for the sites and submitted to the Kentucky OSA. Initially, a PDF of the report will be submitted to the Ballard Economic Industrial Development Committee and the West Kentucky Regional Riverport Authority for review and comment. CRA will submit a revised report in PDF format for review by the

USACE and SHPO. CRA will make any necessary revisions to the report requested by the reviewing agencies.

Schedule

CRA can initiate the study within 30 business days of NTP. The excavations will require approximately fourteen (14) field days. A summary of the excavation results, in PDF format, will be submitted within 20 business days of completion of the fieldwork. If the site is determined to be eligible for listing in the NRHP, additional mechanical stripping (Stage III) and mitigation (Stage IV) may be required.

Fee Proposal

Stage II Unit Excavations

CRA will complete Stage II investigations on a time and materials basis at a cost not-to-exceed **\$236,433**.

Terms are payment in full within 30 calendar days of receipt of the invoice for Cultural Resource Analysts, Inc. Invoicing may be done monthly. The following assumptions have been made when preparing the scope of work and estimated cost for this project. These are not intended to be all-inclusive, and it is recognized that unforeseen changes and circumstances may result during the project. Should these situations arise, CRA will promptly address specific scope or budget issues with the client to reach an agreement for any needed contract modifications and additional compensation per our standard rate schedule.

- There will be no delays in fieldwork due to inclement weather or other conditions adverse to conducting fieldwork.
- There will be no issues or delays in obtaining access to project areas.
- No more than 15 m³ of sediment will be excavated.
- No more than 9,000 artifacts will be recovered during test unit excavation.
- No more than 5 features (three at 15Ba174 and two at 15Ba48) will be excavated.
- No more than three radiocarbon samples will be taken.
- Any additional safety training or drug testing is not included.
- There will be no delays in the performance of work caused by the client, agencies, landowners, or other parties.
- Deep testing will not be a requirement of this project. If it is determined during the course of field investigation that deep testing will be required, additional costs will be incurred.
- Both sites have been identified as potential bat habitat, and trees 3 inches or larger in diameter must be avoided. If the project area is too densely overgrown with bat habitat trees, a change in method may be warranted.
- Formal meetings with clients, agencies, tribes, or others are beyond the scope of this proposal.
- If the cannon is recovered, CRA will stabilize and preserve it and coordinate with the client to deliver to the proposed Fort Jefferson Museum.

- Features in excess of five will not be excavated during this portion of the investigation, but will be returned to and excavated during the mechanical stripping and feature excavation portion of the study.
- No more than 5 10-liter float samples will be taken.

FOR Cultural Resource Analysts:



Signed: _____
Steven D. Creasman, RPA
Executive Vice President

West Kentucky Regional Riverport Authority (WKRRA)

TC 59-113 Application

Budget Schedule

Cost Category	Cost	Schedule
Stage II Archaeological	\$ 236,433	120 Days
Contract & Project Management	\$ 13,567	120 Days
Total	\$ 250,000	



ANDY BESHEAR
GOVERNOR

TOURISM, ARTS AND HERITAGE CABINET
KENTUCKY HERITAGE COUNCIL
THE STATE HISTORIC PRESERVATION OFFICE

MICHAEL E. BERRY
SECRETARY

JACQUELINE COLEMAN
LT. GOVERNOR

410 HIGH STREET
FRANKFORT, KENTUCKY 40601
(502) 564-7005
www.heritage.ky.gov

CRAIG A. POTTS
EXECUTIVE DIRECTOR &
STATE HISTORIC
PRESERVATION OFFICER

December 21, 2021

William Miller
Acting Director
West Kentucky Regional Riverport Authority
297 Kentucky Avenue
Kevil, Kentucky 42053

Re: A Phase I Archaeological Survey for the Proposed Mayfield Creek Slack Water Harbor Project in Ballard County, Kentucky, prepared by Brian Mabelitini (Cultural Resource Analysts, Inc.), November 1, 2021.

Dear William Miller,

Thank you for your submission of a hard copy of an archaeological report regarding the above-referenced project received by our office on November 29, 2021. My office requested and received an electronic copy of the report on December 9, 2021. This report describes the Phase I archaeological survey of an Area of Potential Effect (APE) of approximately 69.9-acres associated with the proposed construction of a slack water harbor on the right bank of and at the mouth of Mayfield Creek. We understand this survey was completed as due diligence because it is anticipated that a permit from the United States Army Corps of Engineers (USACE), Memphis District, will be required to complete the proposed project. Field methods included shovel test excavation, pedestrian survey, metal detector reconnaissance, and hand bucket augering. One previously unrecorded site (15Ba174) was documented and the boundaries for two previously recorded sites (15Ba48 and 15Ba105) were expanded during this investigation. One previously recorded archaeological site (15Ba104) could not be assessed, and no evidence of the previously recorded site 15Ba153 was identified within the APE.

Site 15Ba174 is a multicomponent historic site that dates from the late eighteenth through the mid-twentieth century. The investigators identified significant, intact subsurface historic deposits. Cultural materials associated with the previously postulated Fort Jefferson blockhouse and the Civil War encampment as well as nineteenth-century materials and structural debris associated with support buildings for either the railroad or a nearby farmstead were recorded. For the portion of the site within the APE, additional archaeological testing is recommended to determine the eligibility of this site for listing on the National Register of Historic Places (NRHP) if avoidance is not possible.

Site 15Ba48 is a multicomponent prehistoric open habitation without mounds that contains historic occupations dating from at least the mid-nineteenth through the mid-twentieth century. Historic materials and structural debris associated with a mid-to-late nineteenth century farmstead as well as late nineteenth century railroad support structures were recorded, and it is possible that intact remnants of the Fort Jefferson stockade trench may be present in western portions of the site. The investigators identified significant, intact subsurface historic deposits. Additional archaeological testing is recommended to determine the eligibility of this site for listing on the NRHP if avoidance is not possible.

[Continued on Next Page]



An Equal Opportunity Employer

Site 15Ba105 is a prehistoric open habitation without mounds with occupations during the Late Woodland and Late Mississippian periods that contains historic occupations dating from the late eighteenth through the mid-twentieth century. Investigators encountered intact, buried midden and fire-cracked rock as well as hand wrought nails indicative of the late eighteenth-century village of Clarksville. The investigators identified significant, intact subsurface prehistoric and historic deposits. For the portion of the site within the APE, additional archaeological testing is recommended to determine the eligibility of this site for listing on the NRHP if avoidance is not possible.

Site 15Ba104 was recorded as a prehistoric open habitation without mounds as well as the potential 1780–1781 location of Fort Jefferson. Due to the potential for deeply buried archaeological deposits at the mapped location of this site indicated by augering, the investigators could not adequately assess the site and the investigator recommends additional deep testing or avoidance at this location.

After review of the Phase I archaeological survey report, we concur with the findings and recommendations of the investigators that additional archaeological investigation is necessary to assess the eligibility of sites 15Ba48, 15Ba104, 15Ba105, and 15Ba174. We look forward to receiving the official determination of effect for this project from USACE and will provide our comment on effect at that time.

If you have questions or if the project should change, please contact Jennifer Ryall of my staff at jennifer.ryall@ky.gov.

Sincerely,



Craig A. Potts,
Executive Director and
State Historic Preservation Officer



August 4, 2023

N. Nicole Konkol
Site Protection Program Administrator
Tourism, Arts and Heritage Cabinet
The State Historic Preservation Office
410 High Street
Frankfort, KY 40601

**Re: West Kentucky Regional Riverport Authority (WKRRRA), Archaeological Impacts
Ballard County, Kentucky**

Dear Nicole Konkol,

Thank you for meeting with representatives representing the WKRRRA and the professional consultants' representatives that have been contracted to assist the WKRRRA with this exciting development for our area. The following people were in attendance, excluding yourself, Hannah Chretien, WKRRRA, Todd Cooper, Ballard County Judge Executive, Chuck Niquette, Cultural Resource Analysts, Inc. (CRA), Jack Mundy, GEO Consultants Corporation, Sheryl Chino, Jeff Schaefer, and Kristi Nichols, HDR. WKRRRA requested the meeting to present the current status of the proposed riverport development and the revisions that were made to eliminate impacts to archaeological sites identified in previous studies and more recently in the Phase I Archaeology Study performed by CRA at the request of WKRRRA and completed in November 2021.

The Phase I Archaeology Study identified an area not previously studied labeled 15Ba174 and extended two previously studied sites, 15Ba48 and 15Ba105. The study area 15Ba174 is on the north side of the entrance road and within this area is an area identified to be avoided, or Phase II Archaeology Testing. There are also two areas on the north side of Mayfield Creek and near the south boundary of the 14-acre development area that are identified as areas to be avoided or Phase II Archaeology Testing. Please refer to the Phase I Archaeology Study for more detailed descriptions and analysis of these areas. These areas are highlighted on the attached Preliminary Site Plan

The current Preliminary Site Plan showing proposed development areas outlined was presented at the meeting. There are basically two areas that are proposed for development in the early stages of the riverport. The first area is approximately 14 acres on the west side of the existing entrance road and adjacent to the east bank of the Mississippi River. Developing this area will require approximately 300,000 cubic yards of fill material to raise the elevation of the site to one foot above the Base Flood Elevation, 329 (BFE). This area has been disturbed previously with construction of a railroad and containing a "turn-around" in this general area. The second development area is located on the north side of the entrance road and contains 19 acres. This area will be used, primarily, to provide fill material for the 14-acre site in the early stages of the riverport development. This area has been previously disturbed and used as a borrow site for fill material to construct a local highway and bridge project in the 1980s.

297 Kentucky Avenue
Kevil, KY 42053
270-462-2394



Another part of the development is to place the overhead electric supply underground and construct a new entrance road higher in elevation to one foot above the BFE. These three construction activities will be on the south side of the existing entrance road to avoid impacts and disturbance of archaeology survey site 15Ba 174.

WKRRRA has applied for a Port Infrastructure Development Program Grant (PIDP) and expects notification of acceptance or denial in late September or early October of this year. The grant is requesting primarily additional permitting and planning funds to perform additional studies and permitting with USACE and US Fish & Wildlife Service among other agencies. There are construction funds requested to provide earthwork to fill and surface (gravel) the 14-acre development area one foot above the BFE, reconstruct the entrance road shifted slightly south of the existing location and raising to one foot above the BFE, placing the overhead electric underground on the south side of the entrance road, and construct a new water main along the south side of the entrance road. The WKRRRA is committed to avoid and protect the sensitive archaeology areas shown on the Preliminary Site Plan during the first stages of the riverport development. If additional areas are needed as the riverport progresses, additional archaeological surveys and testing will be performed to mitigate those areas. As development of this first phase progresses with additional studies, permitting, and these first phase construction items, SHPO will be included in the review process at the 60% and 95% plan development stages. Further development is anticipated to be several years in the future.

Thank you again for your attention and effort to this exciting project so vital to far Western Kentucky. This riverport can positively benefit businesses and industry up and down the Mississippi and Ohio Rivers and even the Tennessee and Cumberland Rivers. WKRRRA respectfully requests the favorable acceptance of the WKRRRA Riverport's development plan by The State Historical Preservation Office. Please reach out with any comments or requests for additional information.

Respectfully Submitted,

David Rambo

Chairman, West Kentucky Regional Riverport Authority



July 30, 2025

Ms. Kim Morris, PMP
Executive Vice President and Chief Operating Officer
GEO Consultants, Corp.
325 Kentucky Ave.
Kevil, Kentucky 42053

**Subject: Habitat Survey and Protected Species Report
West Kentucky Regional Riverport Authority (WKRRA)
Ballard County, Kentucky**

Dear Ms. Morris:

HDR is pleased to submit this Habitat Survey and Protected Species Report in support of the WKRRA project in Ballard County, Kentucky. The approximate 69-acre project site is located along the eastern bank of the Mississippi River, north of Mayfield Creek confluence, approximately one mile south of Wickliffe, Kentucky. This report documents the location and extent of threatened and endangered species' habitat located within the 69-acre site.

Thirteen listed or proposed listed species were identified by the United States Fish and Wildlife Service (USFWS) as known or potentially occurring in the Project Area; the Indiana bat (*Myotis sodalis*), gray bat (*Myotis grisescens*), northern long-eared bat (*Myotis septentrionalis*), fanshell (*Cyprogenia stegaria*), fat pocketbook (*Potamilus capax*), orangefoot pimpleback (pearlymussel) (*Plethobasus cooperianus*), pink mucket (pearlymussel) (*Lampsilis abrupta*), ring pink (*Obovaria retusa*), rough pigtoe (*Pleurobema plenum*), monarch butterfly (*Danaus plexippus*), alligator snapping turtle (*Macrochelys temminckii*), pallid sturgeon (*Scaphirhynchus albus*), and whooping crane (*Grus americana*).

On June 2, 2025, HDR performed an on-site field survey encompassing the Project Area to confirm the presence or absence of suitable habitat for the listed or proposed listed species. Three federally listed bat species: (Indiana bat, endangered), (northern long-eared bat, endangered), (gray bat, endangered) and one proposed listed insect (monarch butterfly, proposed threatened) could be affected by the Project as suitable habitat was identified in the Project Area.

The Project Area contains 53.7 acres of suitable known summer Indiana bat and potential northern long-eared bat habitat including 1.5 acres of suitable roosting habitat identified as live trees and/or snags of minimum diameter at breast height; had exfoliating bark, cracks, crevices, and/or cavities; and were located within 1,000 feet of other forested/wooded habitat and/or contained potential roost substrate. Gray bat foraging habitat was identified along perennial and intermittent stream riparian corridors. Monarch butterfly summer habitat was identified in herbaceous areas scattered across the property containing milkweed.

The 69-acre property is anticipated to remove some or all of the forested habitat providing suitable summer habitat for the Indiana bat and northern long-eared bat. The USFWS has determined that harvesting trees within stands where bats are known to use during the summer may result in "harm" and lead to take of these species. As the Project is located within known summer 1 (outer-tier) Indiana bat and northern long-eared bat potential habitat, removal of trees should follow the 2016 *Revised Conservation Strategy for Forest Dwelling Bats in KY* to account for mitigation for the species

by payment to the Imperiled Bat Conservation Fund (IBCF). Following the 2016 Revised Conservation Strategy guidance, removing trees during the summer unoccupied timeframe (August 16-March 31) would be the least expensive and require a 1.5 mitigation ratio costing 53.7 acres X \$5,300/acre X 1.5 = \$426,915.

Consultation with the USFWS will be required during the Section 404 permitting stage and overseen by U.S Army Corps of Engineers (USACE), the federal agency issuing the permits. During the consultation, HDR would recommend that in lieu of paying the significant cost to remove large amounts of forested habitat, WKRRRA request other methods such as presence/absence surveys (mist netting) or habitat conservation plans to adequately mitigate the incidental take. To further reduce the cost of tree removal, WKRRRA might also consider implementing tiered development strategies that remove trees on a staggered basis and/or incorporate tree preservation into its development plan.

We appreciate the opportunity to assist you on this project. Please contact Jeff Schaefer at (502) 909-3247 or Jeff.Schaefer@hdrinc.com with any questions.

Respectfully submitted,
HDR Engineering, Inc.



Jeff Schaefer

Sr. Environmental Project Manager

cc: Sheryl Chino, HDR



Rev. 9-16-22

**Required Affidavit for Bidders, Offerors
and Contractors
(KRS 45A.110 & 45A.115)**

Affidavit Effective for One (1) Year from Date of Execution

Instructions: Pursuant to KRS 45A.110 and 45A.115, a bidder, offeror, or contractor ("Contractor") is required to submit a Required Affidavit for Bidders, Offerors, and Contractors to be awarded a contract, or for the renewal of a contract. An authorized representative of the contracting party must complete the attestation below, have the attestation notarized, and return the completed affidavit to the Commonwealth.

Attestation

As a duly authorized representative for the Contractor, I swear and affirm under penalty of perjury, that that the Contractor has not knowingly violated campaign finance laws of the Commonwealth of Kentucky and that the award of a contract will not violate any provision of the campaign finance laws of the Commonwealth. For purposes of this attestation, "Knowingly" means that the bidder or offeror is aware or should have been aware of the existence of a violation. The bidder or offer understands that the Commonwealth retains the right to request an updated affidavit at any time.

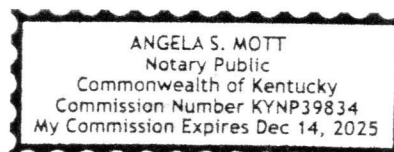
Hal R. Rake
Signature
Chairman
Title

David R. Renbo
Printed Name
10/22/2025
Date

Bidder or Offeror Name: West Kentucky Regional Riverport Authority
Address: 297 Kentucky Avenue
Kevil, KY 42053

Commonwealth of Kentucky Vendor Code (If known): _____

Subscribed and sworn to before me this 22nd day of October 2025.
State of: Kentucky Notary: Angela S. Mott
County of: Carlisle My Commission Expires: Dec 14 2025





**Required Affidavit for Bidders, Offerors
and Contractors
(KRS 45A.110 & 45A.115)**

Affidavit Effective for One (1) Year from Date of Execution

Instructions: Pursuant to [KRS 45A.110](#) and [45A.115](#), a bidder, offeror, or contractor ("Contractor") is required to submit a Required Affidavit for Bidders, Offerors, and Contractors to be awarded a contract, or for the renewal of a contract. An authorized representative of the contracting party must complete the attestation below, have the attestation notarized, and return the completed affidavit to the Commonwealth.

Attestation

As a duly authorized representative for the Contractor, I swear and affirm under penalty of perjury, that that the Contractor has not knowingly violated campaign finance laws of the Commonwealth of Kentucky and that the award of a contract will not violate any provision of the campaign finance laws of the Commonwealth. For purposes of this attestation, "Knowingly" means that the bidder or offeror is aware or should have been aware of the existence of a violation. The bidder or offer understands that the Commonwealth retains the right to request an updated affidavit at any time.



Signature

Richard Mason Niquette

Printed Name

President

Title

10/20/2025

Date

Bidder or Offeror Name: Cultural Resource Analysts, Inc.
Address: 151 Walton Ave
Lexington, KY 40508

Commonwealth of Kentucky Vendor Code (If known): _____

Subscribed and sworn to before me this 20 day of OCT, 2025.

State of: KENTUCKY Notary: Tammara Nolen

County of: FAYETTE My Commission Expires: 10-06-2029

