Environmental Assessment

FEDERAL AVIATION ADMINISTRATION
MEMPHIS AIRPORTS DISTRICT OFFICE

Airport Name: West Liberty Airport (9I3)

Proposed Project: Runway 7-25 Obstruction Removal

Date Submitted to FAA: July 2026

This environmental assessment becomes a Federal document when evaluated, signed, and dated by the Responsible FAA Official.

lopa naik _____ 7/28/26

Responsible FAA Official | Date

General Information and applicability

This Environmental Assessment (EA) is to be used only for federally obligated airports within the boundaries of the Federal Aviation Administration (FAA) Memphis Airports District Office (ADO), which includes the states of Kentucky, North Carolina, and Tennessee. Prior to preparing any NEPA documentation, including this form, contact the Memphis (MEM) ADO Environmental Protection Specialist or designated staff responsible for NEPA compliance for the subject airport to determine the level of documentation needed. Completed documentation without prior FAA concurrence may result in approval delays or rejection of NEPA documentation.

The EA is intended to be used only when the following conditions are met:

(1) the federal action cannot be categorically excluded (CATEX) because of involvement with extraordinary circumstances or because the action is not consistent with any CATEX described in FAA Orders 1050.1F[1],[2] or 5050.4B (or subsequent versions),
(2) impacts from the federal action would be limited to one extraordinary circumstance,
(3) the federal action would not create significant impacts to any environmental category unless it is mitigated to the point of non-significance, and
(4) the action is not considered controversial.

Note that in certain cases FAA may elect to prepare a full EA even if these conditions appear to be met.

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[1] On June 30, 2025, FAA rescinded FAA Order 1050.1F and issued FAA Order 1050.1G, *FAA National Environmental Policy Act Implementing Procedures*, to update FAA's NEPA implementing procedures. See Notice of Rescission of FAA Order 1050.1F, Availability of FAA Order 1050.1G, Request for Comments, 90 FR 29,615 (July 3, 2025). Because the preparation of this EA was already underway when this revision to FAA Order 1050.1 took place, and because this revision does not change the analysis of environmental effects for this proposed action, this EA continues to rely on FAA Order 1050.1F. However, any direction in FAA Order 1050.1F that is inconsistent with Executive Order (EO) 14173, Ending Illegal Discrimination and Restoring Merit-Based Opportunity, EO 14154, Unleashing American Energy, or the Supreme Court's decision in Seven Cnty. Infrastructure Coal. v. Eagle Cnty., Colo., 605 U.S. 168 (2025) is superseded and will not be followed.

[2] FAA Order 1050.1F requires agency NEPA documents to contain an analysis of the Proposed Action's overall "Cumulative Impacts." The underlying basis for the inclusion of "Cumulative Impacts" in FAA Order 1050.1F was its inclusion in the Council for Environmental Quality's now-rescinded NEPA-implementing regulations. The NEPA statute, as amended, does not employ the term "cumulative effects" or "cumulative impacts." Agencies are to only consider the proposed action at hand and that action's reasonably foreseeable effects, consistent with NEPA. See 42 U.S.C. § 4332(2)(C)(i). See also Seven Cnty. Infrastructure Coal. v. Eagle Cnty., Colo., 605 U.S.168 (2025). In accordance with this direction, the FAA will no longer characterize effects as "cumulative" in its NEPA documents.

Steps for Completing EA

This EA is intended to comply with FAA requirements for satisfying NEPA. The preparer should be familiar with NEPA and FAA laws, requirements, and policies, including, but not limited to, FAA Orders 1050.1F and 5050.4B (or subsequent versions).

The EA is formatted into three sections. Section I covers general information on the Proposed Project as well as information and certification from the preparer and airport sponsor. Section II addresses the purpose and need statement and alternatives. Section III covers affected environment and environmental consequences.

All sections must be addressed for the form to be considered complete. The level of information needed to address each section is dependent upon the project and extent of impacts. However, for Section III, responses should provide enough information to allow the reviewer(s) to conclude there is no impact or no significant impact. A graphic depiction of the Proposed Project must be attached to the form. The use of additional graphics, pictures of the study area, and appendices is recommended and may be required pending upon the Proposed Project and environmental impacts.

As previously mentioned, Section III addresses the affected environment and environmental consequences. If the Proposed Project does not impact a particular resource, provide a brief explanation for why there is no impact. If the Proposed Project does impact a resource, describe the affected environment for the resource before discussing environmental consequences. For all resources, consider impacts caused by construction and post-construction activities. Also consider direct and indirect impacts. Helpful factors that should be considered as part of the assessment and internet websites are listed below each resource section. The factors to be considered and websites provided are not intended to be a comprehensive list. Additional factors and sources should be reviewed as needed. Consultation with resource agencies, field analysis, or computer modeling may be required to aid FAA in determining the extent of impacts. The preparer should contact the MEM-ADO representative to determine the level of agency coordination, field analysis, and modeling needed.

Although multiple variations exist for adequately completing the NEPA process, the MEM-ADO recommends following the generalized steps below for Short-Form EAs:

1. **Finalize planning process**
2. **Conduct preliminary environmental analysis**
3. **Obtain concurrence from MEM-ADO on use of this form**
4. **Conduct agency scoping, field analysis, and modeling as needed**

5. **Complete draft EA**
6. **Submit draft EA to MEM-ADO**
7. **Revise draft EA as needed**
8. **Obtain concurrence from MEM-ADO to initiate public involvement**
9. **Make draft EA available to public and issue public notice**
10. **Hold public meeting (if required)**
11. **Revise draft EA as needed**
12. **Submit final draft EA to MEM-ADO**
13. **Receive FONSI**
14. **Issue public notice for availability of final EA and FONSI**

Completion of this EA will permit FAA to issue one of the following determinations:

(1) issue a Finding of No Significant Impact (FONSI)
(2) request that a full EA be prepared
(3) request that an Environmental Impact Statement (EIS) be prepared

Section I

1. **Airport and Project Information:**

Airport Name and Three Letter Identifier: West Liberty Airport (9I3)

Airport Address: 50 Airport Way

City: West Liberty County: Morgan State: KY

Project Name: Runway 7-25 Obstruction Removal

Estimated Start Date: February 1, 2027 Estimated Completion Date: March 30, 2027

2. **Preparer Information:**

Name: Ryan Mountain

Title: Planning and Environmental Team Leader

Organization: Garver

Address: 4300 South J.B. Hunt Drive, Ste. 240

City: Rogers State: AR

Telephone: 479-287-4628

E-mail: rcmoumtain@garverusa.com

Preparer Certification

I certify that the information I have provided in this document is, to the best of my knowledge, correct.



Signature

7/28/2026

Date

3. Airport Sponsor Information:

Name: Jeremiah Meyer

Title: Board Chairman

Organization: West Liberty-Morgan County Airport Board

Address: 450 Prestonburg Street

City: West Liberty State: KY

Telephone: 606-743-3897

E-mail: aemech97@yahoo.com

Airport Sponsor Certification

I certify that the information I have provided in this document is, to the best of my knowledge, correct. I also recognize and agree that no construction activity, including but not limited to site preparation, demolition, or land disturbance, shall proceed until the FAA issues a final environmental decision for the proposed project described in this document.

Jeremiah Meyer

Signature

July 28, 2026

Date

Section II

1. Provide purpose and need statement.

West Liberty Airport (9I3), as shown in Appendix A, has identified individual trees as obstructions to the approach surfaces to Runway 7-25. The purpose of the Proposed Project is to remove these obstructions that are penetrating the 20:1 Threshold Siting Surface (TSS) and Part 77 Approach Surface (AS) as shown in Appendix A. The Airport needs to remove these obstructions to provide safe approaches for landing aircraft and for compliance with Code of Federal Regulation (CFR) Part 77 airspace regulations. Obstructions identified as structures (i.e., power poles) need to be lighted for compliance with FAA regulations.

West Liberty-Morgan County Airport Board has requested federal funding from FAA to implement Proposed Project, specifically funds from the Infrastructure Investment and Jobs Act (IIJA) Public Law [P.L] 117-58), which appropriated $25 billion over a five-year period (Fiscal Year 2022 (FY22) to 2026 (FY26)) for the National Airspace System (NAS) improvements. FAA's funding of Proposed Project is considered a major federal action subject to National Environmental Protection Act (NEPA).

2. Describe the preferred alternative and include all connected actions. Attach a graphic depiction of the Proposed Project, including haul routes and staging areas if applicable, to the back of this form or in an appendix.

The preferred alternative is shown in **Appendix A** and includes removal of individual trees have been identified as obstructions to both runway end approaches. These obstructions are located off airport property on privately owned properties. Obstruction removal will include tree felling 22 trees on the Runway 7 end and 9 trees on the Runway 25 end by hand and left in place or removed. Stumps will be ground to match the existing ground elevation. One utility pole was identified as an obstruction on the Runway 7 end and will be lighted according to FAA standards.

3. Describe the no action alternative including the environmental, operational, and economic impacts that would occur if used.

The No Action Alternative would not remove the obstructions identified in **Appendix A** and would therefore limit the use of Runway 7-25 and not be in compliance with FAA regulations related to Part 77 cleared airspace.

3. List and describe other reasonable alternatives.

There are no other reasonable action alternatives considered in this EA.

4. Provide rationale for why other reasonable alternatives were removed from consideration.

One alternative would require full Runway Protection Zone (RPZ) acquisition to gain complete control of the RPZ for obstruction clearing and incur greater environmental impacts such as residential and business relocations and property acquisition. Tree topping is not considered a prudent alternative due to the regrowth of trees.

Section III

Two study areas were identified to describe the affected environment, and the potential environmental consequences associated with the Proposed Project. These two areas are identified as the project study areas (Runway 7 end and Runway 25 end)(see ***Figure 3***).

The project study areas cover approximately 9 acres total divided between two (2) non-contiguous locations. The Runway 7 end study area is 3.95 acres in size and consists predominantly of maintained airport grassed areas, a forested ravine and hillsides, residential communities, and portions of Dogwood Lane, and portions of an ephemeral to intermittent stream. The Runway 25 end study area is 4.98 acres in size and contains maintained airport grassed areas, forested hillsides, residential yards, portions of a commercial building and Crestview Lane. The project study area was developed to fully encompass the area where reasonably foreseeable environmental effects from the Proposed Project may occur.

(A) Air Quality

Factors to consider:

(1) Impacts from aircraft, ground vehicle, and equipment emissions
(2) Project location with respect to NAAQS attainment/maintenance/non-attainment areas.
(3) Modeling requirements

Note: Impacts should be discussed for any project involving outside construction.

Resources:

(1) Exhibit A-1, Significance Determinations for FAA Actions, FAA Order 1050.1F
(2) FAA 5050.4B Desk Reference air quality section: http://www.faa.gov/airports/environmental/environmental_desk_ref/media/desk-ref-chap1.pdf
(3) EPA Greenbook[3]: http://www3.epa.gov/airquality/greenbook/

Affected Environment

The Airport is located in Morgan County, Kentucky, which is a county identified as in attainment of all National Ambient Air Quality Standards (NAAQS) according to the United States Environmental Protection Agency (EPA) Greenbook.

Environmental Consequences

[3] Environmental Protection Agency. Green Book: Kentucky Nonattainment/Maintenance Status for Each County by Year for All Criteria Pollutants. September 23, 2024. https://www3.epa.gov/airquality/greenbook/anayo_ky.html

No Action Alternative

The No Action Alternative will have no effect on air quality.

Proposed Project

The Proposed Project may slightly increase temporary construction-related vehicles accessing the stie during construction but will not alter aircraft activity, changes in runway use patterns, or operational effects from ground access vehicles; therefore, no aircraft or surface transportation emissions are expected to rise to the level of significance. Temporary increases in emissions resulting from stump grinding activities may occur for a limited period of time at the project site and in the immediately adjacent areas.

(B) Biological Resources

Factors to consider:

(1) Impacts to federal and state-listed species
(2) Impacts to non-listed species and migratory birds
(3) Impacts to habitat

Note: Impacts should be discussed for any project involving terrain/vegetation disturbance.

Resources:

(1) Exhibit A-1, Significance Determinations for FAA Actions, FAA Order 1050.1F
(2) USFWS IPAC: http://ecos.fws.gov/ipac/
(3) KY state list http://naturepreserves.ky.gov/pubs/Pages/cntyreport.aspx

Affected Environment

A habitat assessment was completed for the study area. The study area contains fragmented forested areas with young to mature trees, maintained grassed residential yards and airport property, and public access roads. Dominant vegetation consists of American sycamore (*Platanus occidentalis*), tulip poplar (*Liriodendron tulipifera*), white oak (*Quercus alba*), hornbeam (*Carpinus caroliniana*), eastern redbud (*Cercis canadensis*), black walnut (*Juglans nigra*), Bermuda grass (*Cynodon dactylon*), Johnsongrass (*Sorghum halapense*), common ragweed (*Ambrosia artemisiifolia*), plantain (*Plantago lanceolata*), Virginia buttonweed (*Diodia virginiana),* fescue (*Schedonorus arundinaceus*), fern (*Polystichum acrostichoides*), ticktrefoil (Desmodium paniculatum), blackberry (*Rubus* spp.), and sumac (*Rhus* spp.).

Onsite aquatic resources were assessed and no wetlands and one ephemeral to intermittent stream reach (other waters, or OW) were identified within the study area (Figure 2). At its upper reaches, OW 1 was ephemeral in nature and exhibited shallow Ordinary High Water Marks characterized by lack of vegetation and due to flashy flows. It is not mapped by USGS; however, it showed slight evidence of sediment sorting with lack of bank vegetation at the toe

of slope of the channel suggesting it transitions from ephemeral (upstream) to intermittent (downstream) within the Runway 7 end project study area.

Federal and State Listed Species

The United States Department of the Interior, Fish and Wildlife Service (USFWS) was consulted early during the development of this document. Species lists and agency responses are located in Appendix B. The USFWS Information for Planning and Consultation (IPaC) on-line tool was used to identify potential habitat for six federally listed endangered species, one proposed threatened species, and three proposed endangered species that may occur in or pass through the study area and are listed in **Table 1**. No critical habitats were identified within or near the study area. The study area for Biological Resources is shown in **Appendix B**.

Table 1: Federally Listed Species

Species*	Habitat Requirements	Habitat Present Within Direct Study Area	Effects Determination
Northern Long-eared Bat (*Myotis septentrionalis*) Endangered	In winter, Northern Long-eared bats use caves, mine portals, abandoned tunnels, protected sites along cliff lines and similar situations that afford protection from cold. They are easily overlooked and often wedge themselves back into wall cracks.	Suitable habitat is present within the study area. Trees to be removed are mature and may provide suitable summer roosting habitat.	May Affect, Not likely to adversely affect
Tricolored Bat (*Perimyotis subflavus*) Proposed Endangered	In winter, Tricolored Bats hibernate in caves, mine portals, and man-made structures such as box culverts. During the summer they prefer to roost in the clumps of dead leaves of oak trees within complex oak forests greater than 50 years old. Less commonly, they will roost in clumps of dead pine needlesattached to living trees. They commonly forage along riparian corridors. Maternity colonies also may utilize human-made structures or tree cavities; sometimes these are in open sites that would not be tolerated by most other bats.	Suitable habitat is present within the study area. Trees to be removed are mature and may provide suitable summer roosting habitat.	May Affect, Not likely to adversely affect
Indiana Bat (*Myotis sodalis*) Endangered	The Indiana bat hibernates in cool caves and mines in the winter and wooded areas in the spring and summer. During summer, colonies are found beneath slabs of exfoliated bark of dead trees, often in bottomland or floodplain habitats, but also in upland situations.	Suitable habitat is present within the study area. Trees to be removed are mature and may provide suitable summer roosting habitat.	May Affect, Not likely to adversely affect
Gray Bat (*Myotis grisescens*) Endangered	The gray bat occurs in limestone karst areas and primarily uses caves throughout the year, although they move from one cave to another seasonally. Smaller colonies also occasionally roost under bridge structures.	No caves, mines, or tunnels are within the study area.	No effect
Virginia Big-eared Bat (*Corynorhinus townsendii virginianus*) Endangered	Virginia big-eared bats roost in caves all year long and forage in nearby woodland and pasture habitats.	No caves are located in the study area.	May Affect, Not likely to adversely affect

Species*	Habitat Requirements	Habitat Present Within Direct Study Area	Effects Determination
Eastern Hellbender (Cryptobranchus alleganiensis alleganiensis) Proposed Endangered	Found in cool, clear, fast-flowing streams and rivers with low sedimentation and pollution. Adult individuals require large, flat rocks for shelter and nesting. Juveniles require gravel and cobble substrates for cover and to support prey populations.	No suitable habitat is located within the study area or will be affected by the Proposed Project.	Not likely to jeopardize the continued existence of the species
Pink Mucket (Lampsilis abrupta) Endangered	The pink mucket inhabits large and fast moving rivers with gravel and cobble substrates.	No suitable habitat is located within the study area or will be affected by the Proposed Project.	No effect
Salamander Mussel (Simpsonaias ambigua) Proposed Endangered	The salamander mussel inhabits fast moving rivers under large flat rocks.	No suitable habitat is located within the study area or will be affected by the Proposed Project.	Not likely to jeopardize the continued existence of the species
Snuffbox Mussel (Epioblasma triquetra) Endangered	The snuffbox mussel inhabits small to large rivers within riffles. They also inhabit banks of lakes with wave project.	No suitable habitat is located within the study area or will be affected by the Proposed Project.	No effect
Monarch Butterfly (*Danaus plexippus*) Proposed Threatened	Monarch butterflies require the presence of milkweed (*Asclepias sp*.), flowering or potentially flowering nectar plants (defined as forbs that can provide nectar for monarchs at some point in the growing season), and additional native habitat such as meadows, prairies, and grasslands.	Potentially suitable habitat (flowering nectar plants) is possible within the study area. No milkweed species were observed within the study area.	Not likely to jeopardize the continued existence of the species

*USFWS IPaC Official Species List, June, 2025.

The Office of Kentucky Nature Preserves (OKNP) Rare Plant Database was consulted to identify state species of concern within the county. Additionally, the OKNP biological assessment tool was completed and results indicate that the Eastern Spotted Skunk (*Spilogale putorius*) has been documented within the project area. This species has a special concern state status, common global rank, and rare/uncommon state rank. Two additional species have been recorded within the buffer footprint around the project area and include the Northern Madtom (*Noturus stigmosus*) and Buffalo Clover (*Trifolium reflexum*). The Northern Madtom has a special concern state status, uncommon global rank, and rare/uncommon state rank. Buffalo Clover has an endangered state status, common to uncommon global rank, and rare/extremely rare state rank. Detailed habitat for these species and the OKNP eight plant species that could occur in Morgan County, is described in **Table 2.**

Additionally, the Kentucky Department of Fish and Wildlife (KDFW) responded to the Kentucky Stat e-Clearinghouse that due to the location and nature of the project, they have no specific concerns regarding federal or state species. They did provide recommendations to include sediment and erosion control measures and to coordinate with the USFWS. Additional recommendations are located in their response within the overall e-Clearinghouse response. Refer to **Appendix B** for OKNP, KDFW, and USFWS coordination and responses.

Table 2: State Listed Species

Species*	Habitat Requirements	Habitat Present Within Disturbance Study Area
Eastern Spotted Skunk (*Spilogale putorius*)	Forest edges, riparian corridors, upland prairie grasslands, and abandoned farm buildings and woody fence rows.	Suitable habitat is present within the study area. This species has been observed within the project area.*
Northern Madtom (*Noturus stigmosus*)	Small creeks and streams with moderate flow with sand, gravel, or rock substrates.	No suitable habitat is present within the study area.
Buffalo Clover (*Trifolium reflexum*)	Rocky open woodlands and priaries and typically found in acidic soils.	Suitable habitat is present within the study area.
Mountain Maple (*Acer spicatum*)	This species occurs along streams and ravines, in rich and moist soils of mixed forests, and often at higher elevations.	Suitable habitat is present within the study area.
American Golden-saxifrage (*Chrysosplenium americanum*)	Wetter habitats in forests, along streams and swamps.	Possible suitable habitat is present within the study area near the ephemeral drainages.
Small Enchanter's Nightshade (*Circaea alpina*)	Moist uplands in forests and near streams.	Suitable habitat may be present within the study area.
Small Yellow Lady's Slipper (*Cypripedium parviflorum*)	This species occurs in damp understories of deciduous and coniferous forests, open meadows, and along streams.	Suitable habitat may be present within the study area.
White Walnut (*Juglans cinerea*)	Streambanks and benches, slopes, and well-drained soils.	Suitable habitat may be present within the study area on well-drained slopes.
Tall Bush-clover (*Lespedeza stuevei*)	Longleaf pine and other dry woodlands and boarders.	No suitable habitat may be present within the study area.
Cutleaf Meadow-parsnip (*Thaspium pinnatifidum*)	Limestone, cedar glades with openings.	No suitable habitat is present within the study area.

*State listed species in Morgan County. OKNP, August 2025.

Environmental Consequences

No Action Alternative

The No Action Alternative will have no effect on air quality.

Proposed Project

Direct impacts to 31 mature trees will decrease available habitat for bird, reptile, and mammal species. Informal Section 7 consultation was initiated for these species on March 3, 2026. The Proposed Project would have a no effect determination for the Gray Bat, Pink Mucket, and Snuffbox Mussel, and a may affect, not likely to adversely affect determination for the Northern Long-eared Bat, Indiana bat, Tricolored Bat, and Virginia Big-eared Bat. USFWS concurrence of these findings has been received and included in Appendix B. The Proposed Project would not jeopardize the continued existence of the Eastern Hellbender, Salamander Mussel, and Monarch Butterfly.

(C) Coastal Resources

Factors to consider:

(1) Impacts to Coastal Barrier Resources[4] and Coastal Zone Management (CAMA)

(2) Need for Federal Consistency Review.

Resources:

(1) Exhibit A-1, Significance Determinations for FAA Actions, FAA Order 1050.1F

(2) USFWS coastal barrier mapper http://www.fws.gov/cbra/Maps/Mapper.html

The Proposed Project is not located in or near coastal resources. Therefore, no coastal resources will be impacted by Proposed Project or the No Action Alternative.

(D) DOT Section 4(f) and 6(f)

Factors to consider:

(1) Impacts to parks, national forest, wildlife refuge, or other recreational areas

(2) Impacts to Section 106 resources

(3) Constructive use impacts from noise

(4) Impacts to Section 6(f) Lands

Resources:

(1) Exhibit A-1, Significance Determinations for FAA Actions, FAA Order 1050.1F

(2) Land and Water Conservation Fund. https://lwcf.tplgis.org/mappast/

There are no Section 4(f) resources in or near the study area.

Affected Environment

The study area does not contain nor is it close to any Section 4(f) or 6(f) resources.

Environmental Consequences

No Action Alternative

The No Action Alternative will have no effect on any Section 4(f) or 6(f) resources.

Proposed Project

The Proposed Project will have no effect on any Section 4(f) or 6(f) resources.

[4] U.S. Fish and Wildlife Service. Coastal Barrier Resource System Mapper. Retrieved June 2024 from https://fwsprimary.wim.usgs.gov/CBRSMapper-v2/

(E) Farmland

Factors to consider:

(1) Impacts to farmlands considered to be prime, unique, or statewide and locally important

(2) Farmlands include pasturelands, croplands, and forest (even if zoned for development)

Note: In certain cases, airport owned land may be considered farmland.

Resources:

(1) NRCS/USDA AD 1006 Form: http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/stelprdb1045394.pdf

(2) Exhibit A-1, Significance Determinations for FAA Actions, FAA Order 1050.1F

Affected Environment

According to the NRCS web soil survey data, the project study area does not contain any prime farmland.

Environmental Consequences

No Action Alternative

The No Action Alternative will have no effect on any farmland resources.

Proposed Project

The Proposed Project will have no effect on any farmland resources.

(F) Hazardous Materials, Solid Waste, and Pollution Prevention

Factors to consider:

(1) Impacts or removal of hazardous materials/waste from existing sites or facilities

(2) Use of hazardous materials for new construction

(3) Impacts to solid waste facilities from construction and post-construction activities

(4) Use of pollution prevention activities, plans, programs, or policies

Resources:

(1) EPA Superfund site search: http://cumulis.epa.gov/supercpad/cursites/srchsites.cfm

(2) EPA hazardous waste cleanup sites: http://www.epa.gov/cleanups/cleanups-my-community

(3) EPA solid waste generation: http://www3.epa.gov/epawaste/conserve/imr/cdm/pubs/cd-meas.pdf

(4) Exhibit A-1, Significance Determinations for FAA Actions, FAA Order 1050.1F

Affected Environment

The study area was reviewed for the presence of hazardous materials. The Proposed Project would not include generation of hazardous waste or the use of fuel storage tanks. Federal, state, and/or local statutes and regulations may apply.

Environmental Consequences

No Action Alternative

The No Action Alternative will have no effect on any hazardous materials.

Proposed Project

The Proposed Project will have no effect on any hazardous materials resources; however, the use of small fuel containers may be used for refueling of chainsaw equipment.

(G) Historical, Architectural, Archeological, and Cultural Resources

Factors to consider:

(1) Impacts to above and below ground resources
(2) Indirect impacts from light emissions, vibration, and noise
(3) Impacts to viewshed from construction or removal of buildings, trees, and other objects

Note: Obtain FAA concurrence before completing any of the following: (1) Initiating formal Section 106 proceedings (2) Coordinating the APE or determination of effects (3) Consulting with THPOs.

Note: "Previously disturbed" terrain does not necessarily exclude the project from Section 106

Resources:

(1) Exhibit A-1, Significance Determinations for FAA Actions, FAA Order 1050.1F
(2) NPS NRHP database: http://www.nps.gov/nr/research/
(3) NC GIS historic sites: http://gis.ncdcr.gov/hpoweb/

Note: These databases do not feature all known or potential sites.

Affected Environment

There are no resources 50 years or older within the viewshed of the Proposed Project. No sites are listed on the NRHP. Refer to Appendix C for cultural resources information.

Environmental Consequences

No Action Alternative

The No Action Alternative will have no effect on any historical, architectural, archaeological, and cultural resources.

Proposed Project

The Proposed Project will have no direct or indirect impacts to historic or archaeological sites listed on or eligible for listing on the NRHP.

Consultation with the SHPO concurred with the finding of no historic properties affected due to direct impacts. A response letter was received from SHPO, dated October 8, 2025 (**Appendix C**).

If construction work uncovers buried archeological materials, work will be halted in the area of discovery and SHPO and the FAA Project Manager will be immediately notified.

(H) Land Use

Factors to consider:

(1) Impacts to existing and/or planned land uses or zoning
(2) Compatibility with airport design standards such as RPZs
(3) Consistency with local public agencies
(4) Creation of wildlife attractants

Resources:

(1) Exhibit A-1, Significance Determinations for FAA Actions, FAA Order 1050.1F

Affected Environment

The direct study area is approximately 8.93 acres in size and is located on and off airport-owned property. The airport property currently functions in aeronautical use and off-airport land uses are residential and commercial. No changes in zoning or land uses are planned within the direct study area.

Environmental Consequences

No Action Alternative

The No Action Alternative will have no effect on land uses.

Proposed Project

The Proposed Project will have no effect on land uses within the project area.

(I) Natural Resources and Energy Supply

Factors to consider:

(1) Impacts on fuel, electricity, gas, water, wood, asphalt, aggregate, and other construction material supplies
(2) Impacts from construction as well as post-construction and maintenance activities

Resources:

(1) Exhibit A-1, Significance Determinations for FAA Actions, FAA Order 1050.1F

Affected Environment

The study area is serviced by local utility providers.

Environmental Consequences

No Action Alternative

The No Action Alternative will have no effect on land uses.

Proposed Project

The Proposed Project will have no effect on the use of natural resources or energy supplies within the project area. No impacts on fuel, electricity, gas, water, wood, and other resources will occur as a result of the Proposed Project.

(J) Noise and Compatible Land Use

Factors to consider:

(1) Impacts to non-compatible land uses and local land use standards
(2) Changes in operational activity, fleet mix, flight tracks, or engine runups
(3) Modeling requirements.

Resources:

(1) FAA 5050.4B Desk Reference noise section: http://www.faa.gov/airports/environmental/environmental_desk_ref/media/desk-ref-chap17.pdf
(2) FAA noise/land use compatibility chart: http://www.ecfr.gov/cgi-bin/text-idx?SID=1ae7ac2b63580049ff71cc00a57ce7fa&mc=true&node=ap14.3.150_135.a&rgn=div9
(3) Exhibit A-1, Significance Determinations for FAA Actions, FAA Order 1050.1F

Affected Environment

A noise analysis is not deemed necessary as the Proposed Project will not result in any changes in aircraft operations, nighttime operations, runway use, or aircraft fleet mix during construction or after the project is completed.

Environmental Consequences

No Action Alternative

The No Action Alternative will have no effect on land uses.

Proposed Project

Temporary construction noise (chainsaws and heavy trucks) may affect adjacent landowners during tree cutting, which is anticipated to be for short durations.

(L) Socioeconomics, Children's Environmental Health and Safety Risks

Factors to consider:

(1) Impacts from property acquisition and/or relocation of displaced persons/businesses
(2) Impacts to population, economic activity, employment, income, public services, transportation networks, and planned development
(3) Impacts to children

Resources:

(1) Census Bureau fact finder: http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml
(2) Bureau of Economic Analysis: http://www.bea.gov/
(3) Exhibit A-1, Significance Determinations for FAA Actions, FAA Order 1050.1G

Affected Environment

There are no schools, daycares, parks, or children's health clinics surrounding the study area. However, trees located within the direct study area associated with the Runway 7 approach are located within residential yards.

Environmental Consequences

No Action Alternative

The No Action Alternative will have no effect on land uses.

Proposed Project

The Proposed Project does not include property acquisition or relocations. No impacts to economic activity, employment, planned development, and other socio-economic factors are anticipated.

(K) Visual Effects (including light emissions)

Factors to consider:

(1) Impacts to residential areas, Section 106 resources, Section 4(f) properties, protected coastal areas and rivers, scenic roads/byways, scenic trails, and sensitive wildlife species
(2) Impacts from new construction or modification
(3) Impacts from object removal (e.g. trees, buildings, etc.)

Resources: (none)

Affected Environment

Visual effects associated with the Proposed Project take into account light emissions and visual resources and character. The Proposed Project includes installation of obstruction lighting on a utility pole. Lighting will be installed according to Advisory Circular (AC) 70/7460-1 and the National Electric Code (NEC). No other obstruction lighting is included in the Proposed Project. There are several residences located along Trooper Lane within close proximity to the utility pole to be lighted. Trooper Lane has a streetlight near its terminus.

Environmental Consequences

No Action Alternative

The No Action Alternative will have no visual effects on adjacent residential properties.

Proposed Project

There are six residences in close proximity to the Proposed Project that have direct views of the trees to be removed. Some trees will remain within the viewshed of these residences. All of these residential structures were constructed between 1995 and 2006. The one utility pole on the RW 7 end that will receive obstruction lighting, will be in the viewshed of the three adjacent residences located along Trooper Lane; however, Trooper Lane is already lighted by a streetlight. Therefore, no light emission impacts are anticipated.

(L) Water Resources

Factors to consider:

(1) Impacts to floodplains, wetlands, surface waters, groundwater, and wild and scenic rivers
(2) Impacts to jurisdictional and non-jurisdictional wetlands
(3) Impacts from increased stormwater runoff
(4) Changes in hydrologic patterns
(5) Impacts to ground water recharge capability and drinking water supplies
(6) Impacts from sedimentation, petroleum/chemical/hazmat spills, or other factors causing water quality degradation
(7) Impacts to NRI listed rivers, river segments, or study rivers

Resources:

(1) FEMA Flood Map Service Center: https://msc.fema.gov/portal
(2) USGS National Map: http://viewer.nationalmap.gov/viewer/
(3) USFWS National Wetland Inventory: http://www.fws.gov/wetlands/Data/Mapper.html
Note: The NWI is not considered an official wetland delineation.

(4) NPS National River Inventory: http://www.nps.gov/ncrc/programs/rtca/nri/index.html
(5) National Wild and Scenic River's website http://www.rivers.gov/map.php
(6) Exhibit A-1, Significance Determinations for FAA Actions, FAA Order 1050.1F

Affected Environment

The study area is located with Morgan County within the 12-digit Hydrologic Unit Code (HUC) Pleasant Run-Licking River watershed (051001010506). The nearest groundwater wells are located along the Licking River approximately 0.25 mile to the northwest. The study area is underlain by the Pennsylvania Formation. No public water supplies or sole source aquifers were identified in the study area

The study area was assessed for the presence of any wetlands, surface water resources, floodplains, and groundwater resources (see **Appendix D**). There are no floodplains, USGS mapped streams, USFWS NWI features, NRI, and NWSR resources present with in the study area. FEMA-mapped Zone A floodplains are located within close proximity to, but outside the project area.

A wetland delineation was completed for the study area and is located in **Appendix D**. No wetlands were identified within the study area. One ephemeral to intermittent drainage feature was identified within the study area; however, it will not be impacted. The US Army Corps of Engineers (USACE) provided initial feedback in August, 2025; however, they do not provide jurisdictional determinations for projects with no impacts.

Environmental Consequences

No Action Alternative

The No Action Alternative will have no effects on wetlands, streams, or groundwater resources.

Proposed Project

The Proposed Project does not include fill placement and hand cutting of trees; therefore, the one ephemeral to intermittent drainage feature identified within the study area will not be impacted. The Proposed Project is not anticipated to impact any groundwater aquifers as no ground disturbance is included.

(M) Permits and Certifications

List all permits and certifications required to be obtained.

No permits are required for tree removal as there is no ground disturbance proposed.

Tree clearing shall occur in the winter months (November 16 – March 31).

(N) Mitigation

Describe mitigation required as part of the project. Include mitigation cost and when/where mitigation will occur. Do not include best management practices (BMPs).

No mitigation is required.

(O) Public Involvement

List agencies and organizations that reviewed the Proposed Project.

Discuss additional public involvement projects taken. Please include the name and date(s) of newspaper publications. Attach affidavit or tear sheet.

The following agencies were consulted during the development of this environmental document.

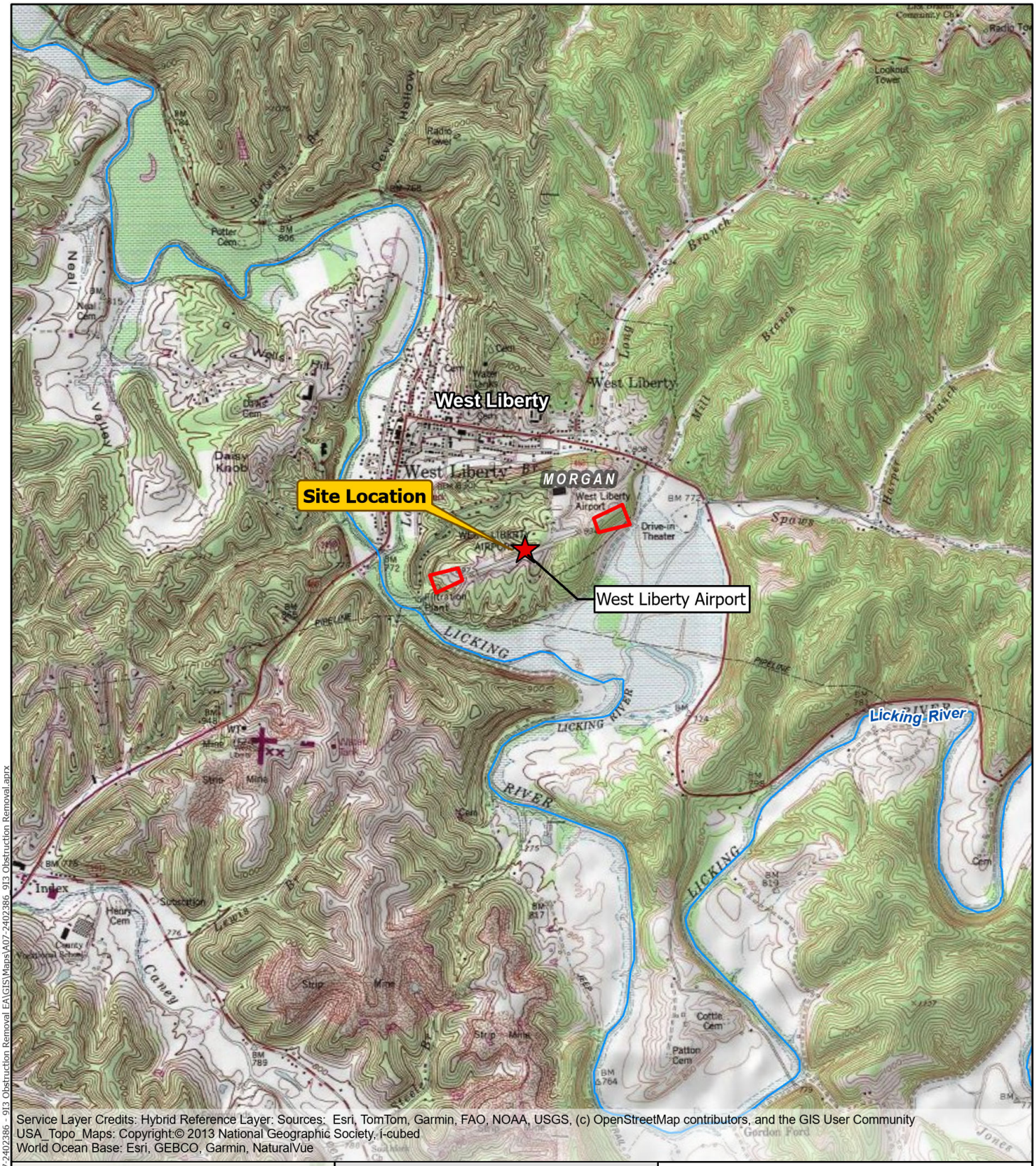
- Kentucky Heritage Council (KHC) – Response received October 8, 2025
- Kentucky Office of State Archaeology (KOSA) – Response received August 22, 2025
- U.S. Army Corps of Engineers (USACE) – Initial response received August 7, 2025
- U.S. Fish and Wildlife Service (USFWS) – Concurrence received May 1, 2026.
- Kentucky Energy and Environment Cabinet, Office of Kentucky Nature Preserves – Initial responses received May 29, 2025
- Kentucky State e-Clearinghouse – Response received June 17, 2025

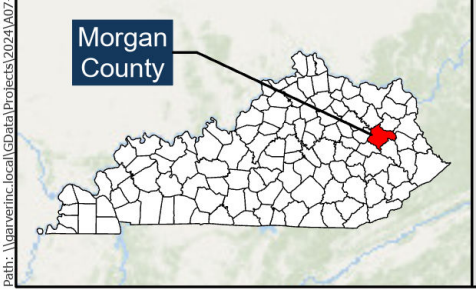
Landowner access request letters were sent to the potentially affected landowners in July 2025. Additionally, certified landowner coordination letters were sent to potentially affected landowners in early January 2026 to provide advance notice of the project that their respective properties may be affected by the Proposed Project. Refer to **Appendix E**. The draft Environmental Assessment was completed in June 2026 and was prepared for public review and comment prior to advertising a notice of opportunity to request a Public Hearing. On June 4, 2026, the Airport opened the public comment period by placing advertisements on this website (*9i3ObstructionRemoval.AirportPlans.com*) and in the Licking Valley Courier, a newspaper of general circulation throughout West Liberty and Morgan County, Kentucky. A copy of the advertisement and affidavit of publication are included in **Appendix E**. Hardcopies of the draft EA were made available for the public to review until July 4, 2026, at the West Liberty City Hall. Opportunities are provided to the public to respond to the EA via letter, email, website comment response, or by telephone.

No public comments were received during the public notification period requesting a public hearing.

APPENDIX A

Site Location Map
&
Project Layout Exhibits





Site Location

APE/Direct Study Area

APPENDIX A - SITE LOCATION MAP

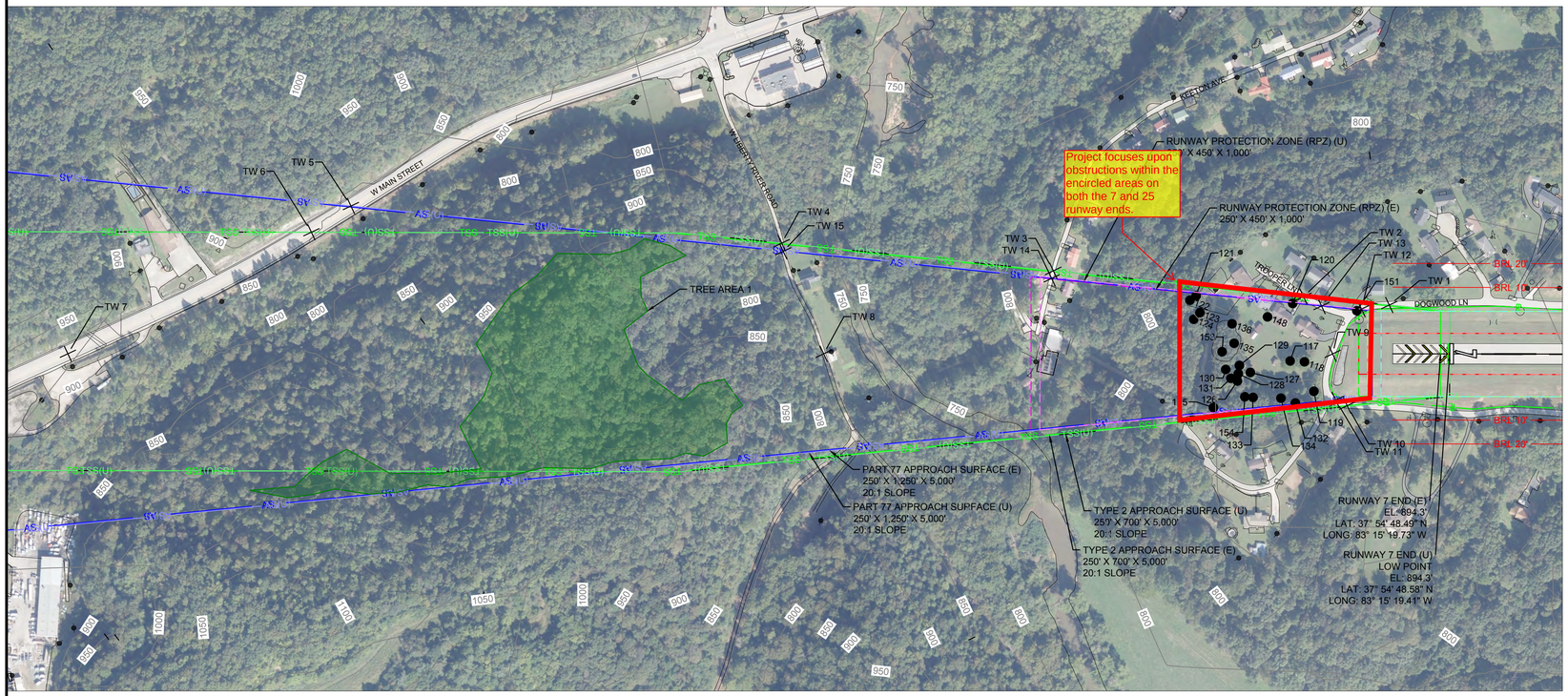
West Liberty Airport (9I3)
Runway 7-25
Obstruction Removal

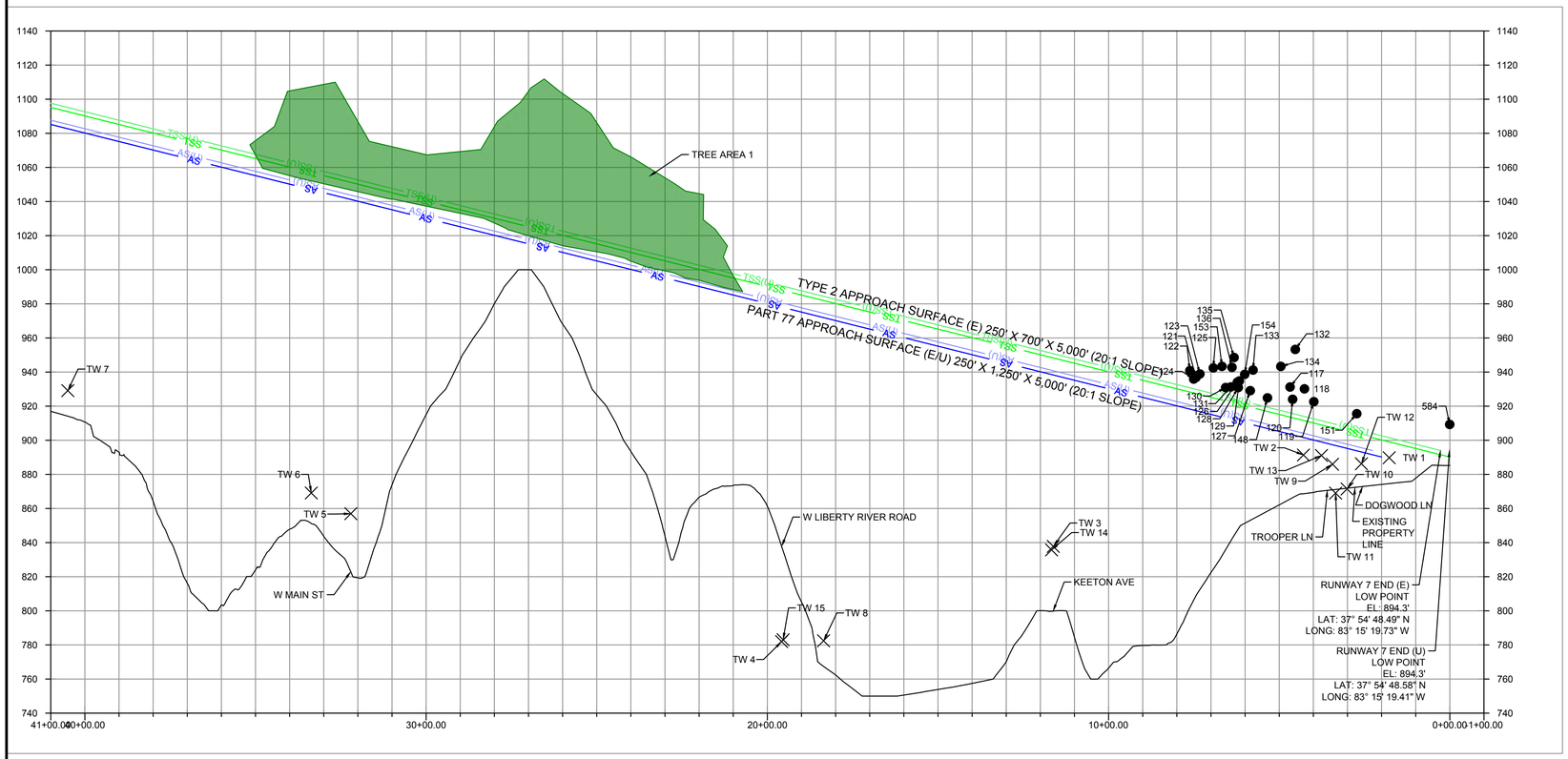
N

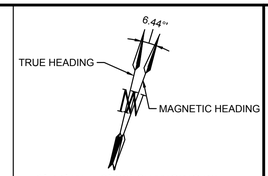
0 0.25 0.5 1

Miles

Path: \\garverinc.local\GData\Projects\2024\A07-2402386 - 913 Obstruction Removal EA\GIS\Maps\A07-2402386_913 Obstruction Removal.aprx







NOTES:

1. VERTICAL EXAGERATION IS 5' IN THE PROFILE.
2. OBSTRUCTION SURVEY WAS COMPLETED IN DECEMBER 2021.
3. FOR ULTIMATE PART 77 SURFACE OBSTRUCTIONS, SEE AIRSPACE DRAWING.
4. ALL TRAVERSE WAY CLEARANCES HAVE BEEN ADJUSTED FOR HEIGHT OF NATURAL OBJECTS, 10' FOR PRIVATE ROADS, 15' FOR PUBLIC ROADS, 17' FOR INTERSTATE HIGHWAYS, 23' FOR RAILROADS.
5. TOPOGRAPHIC CONTOURS ARE AT 50' INTERVALS DUE TO STEEP TOPOGRAPHY AROUND THE AIRPORT.
6. TW STAND FOR TRAVERSE WAY.
7. NO FUTURE DEVELOPMENT SHOWN IN APPROACH AREA.

THE PREPARATION OF THESE DOCUMENTS WAS FINANCED IN PART THROUGH A PLANNING GRANT FROM THE FEDERAL AVIATION ADMINISTRATION AS PROVIDED UNDER SECTION 505 OF THE AIRPORT AND AIRWAY IMPROVEMENT ACT OF 1982, AS AMENDED. THE CONTENTS DO NOT NECESSARILY REFLECT THE OFFICIAL VIEWS OR POLICY OF THE FAA. ACCEPTANCE OF THESE DOCUMENTS BY THE FAA DOES NOT IN ANY WAY CONSTITUTE A COMMITMENT ON THE PART OF THE UNITED STATES TO PARTICIPATE IN ANY DEVELOPMENT DEPICTED HEREIN NOR DOES IT INDICATE THAT THE PROPOSED DEVELOPMENT IS ENVIRONMENTALLY ACCEPTABLE IN ACCORDANCE WITH APPROPRIATE PUBLIC LAWS.

AIRPORT SPONSOR BLOCK

CURRENT AND FUTURE DEVELOPMENT DEPICTED ON THIS ALP IS APPROVED AND SUPPORTED BY AIRPORT SPONSOR

TITLE, AIRPORT SPONSOR'S REPRESENTATIVE

SIGNATURE DATE

FEDERAL AVIATION ADMINISTRATION APPROVAL BLOCK

LEGEND

ITEM	EXISTING	ULTIMATE
BUILDING RESTRICTION LINE	BRL 35'	BRL 35'
AIRPORT PROPERTY LINE	P	P(U)
FENCE	X	XX
AIRFIELD PAVEMENT		
PAVEMENT REMOVAL		
BEACON		
FUEL STORAGE AND PUMPS		SAME
BUILDINGS		
LIGHTED WIND CONE & SEGMENTED CIRCLE		
AWOS		
GROUND CONTOURS	680	SAME
PRECISION APPROACH PATH INDICATOR (PAPI)		
THRESHOLD LIGHTS		
RUNWAY PROTECTION ZONE (RPZ)		
RUNWAY SAFETY AREA (RSA)		
RUNWAY OBJECT FREE AREA (OFA)		
RUNWAY OBSTACLE FREE ZONE (OFZ)		
TAXIWAY SAFETY AREA (TSA)		SAME
TAXIWAY OBJECT FREE AREA (TOFA)		SAME
PART 77 APPROACH SURFACE	AS	AS (U)
DEPARTURE SURFACE	DEP	DEP (U)
GLIDE SLOPE QUALIFICATION SURFACE	VGS	VGS (U)
THRESHOLD SITING SURFACE	TSS	TSS (U)
HOLDLINES & SIGNS		
AIRPORT REFERENCE POINT (ARP)		
VEGETATION		SAME

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REV	DATE	DESCRIPTION	BY

WEST LIBERTY AIRPORT
WEST LIBERTY, KENTUCKY

WEST LIBERTY AIRPORT
LAYOUT PLAN

Inner Portion of Approach Surface Drawing 7

JOB NO.: 21A14220
DATE: AUGUST 2023
DESIGNED BY: NRP
DRAWN BY: JJL

BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

APPENDIX A - PROJECT LAYOUT EXHIBIT (RW 7 END)

SHEET NUMBER

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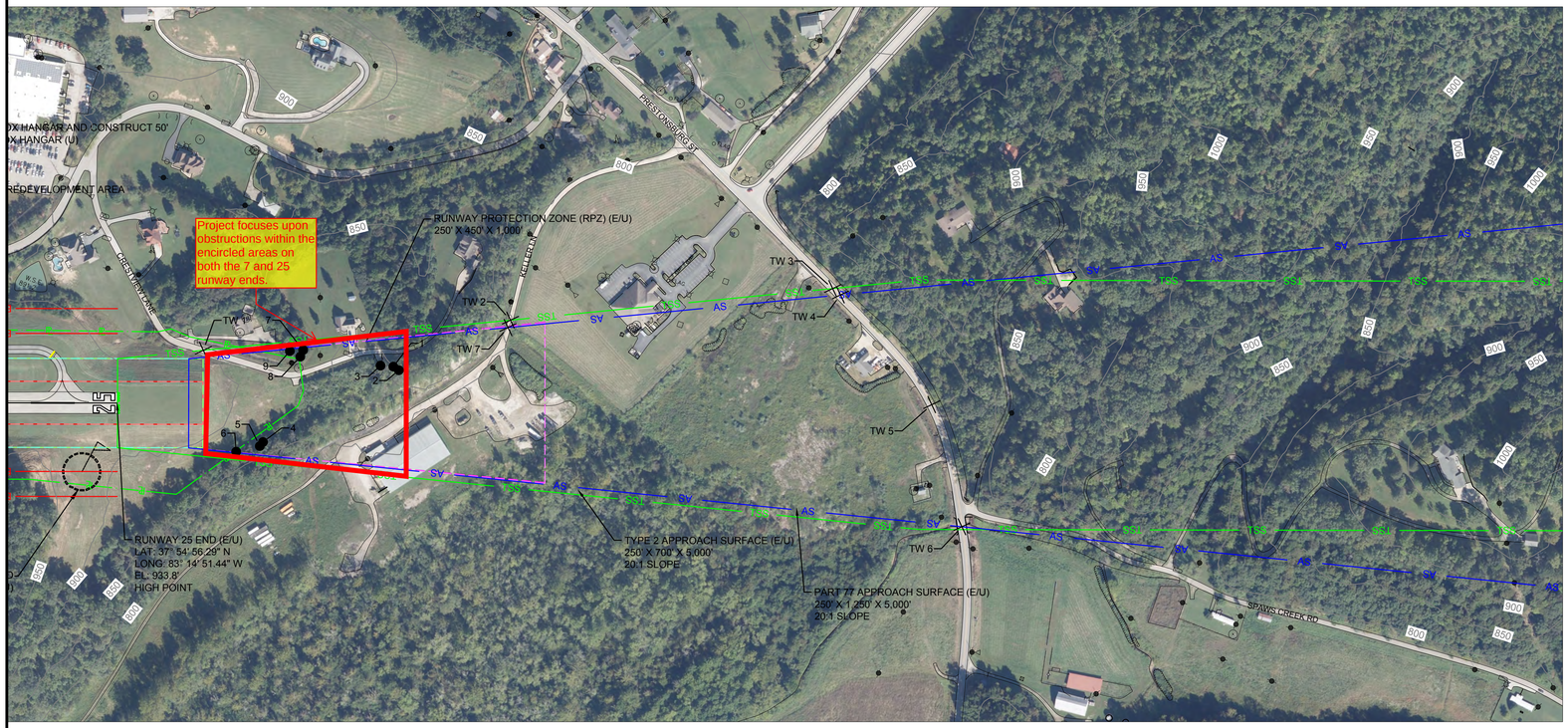

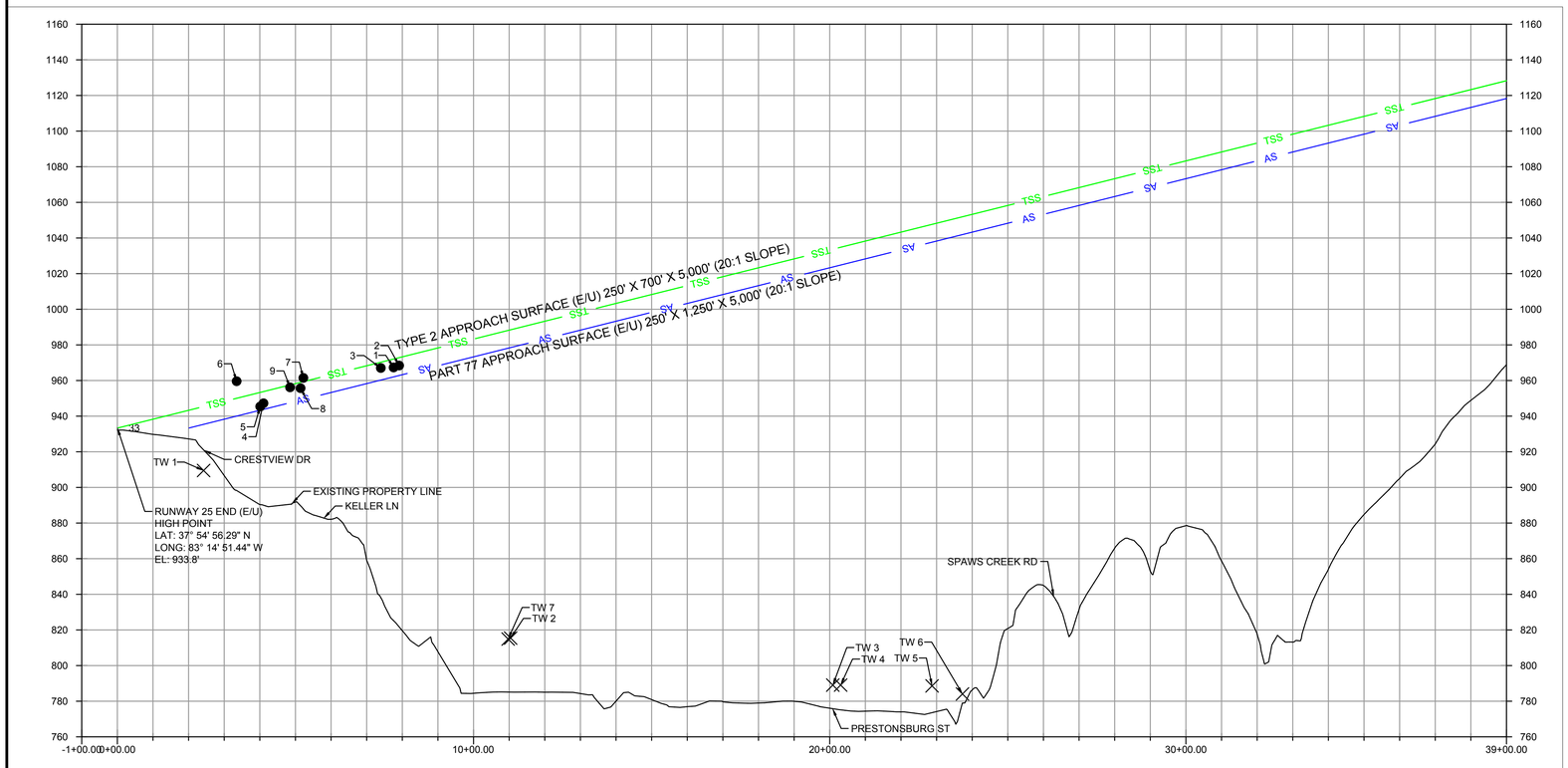

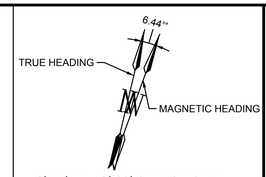

6° 44' W ± 0° 22' CHANGING BY
0° 3' W PER YEAR (JULY 2023)

0 100' 200' 400' 600'

(IN FEET)

NOTES:

1. VERTICAL EXAGERATION IS 5' IN THE PROFILE.
2. OBSTRUCTION SURVEY WAS COMPLETED ON DECEMBER 2021.
3. ALL TRAVERSE WAY CLEARANCES HAVE BEEN ADJUSTED FOR HEIGHT OF NATURAL OBJECTS, 10' FOR PRIVATE ROADS, 15' FOR PUBLIC ROADS, 17' FOR INTERSTATE HIGHWAYS, 23' FOR RAILROADS.
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SIGNATURE DATE

FEDERAL AVIATION ADMINISTRATION APPROVAL BLOCK

LEGEND

ITEM	EXISTING	ULTIMATE
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FENCE	X	XX
AIRFIELD PAVEMENT		
PAVEMENT REMOVAL		
BEACON		
FUEL STORAGE AND PUMPS		SAME
BUILDINGS		
LIGHTED WIND CONE & SEGMENTED CIRCLE		
AWOS		
GROUND CONTOURS	680	SAME
PRECISION APPROACH PATH INDICATOR (PAPI)		
THRESHOLD LIGHTS		
RUNWAY PROTECTION ZONE (RPZ)		
RUNWAY SAFETY AREA (RSA)		
RUNWAY OBJECT FREE AREA (OFA)		
RUNWAY OBSTACLE FREE ZONE (OFZ)		
TAXIWAY SAFETY AREA (TSA)		SAME
TAXIWAY OBJECT FREE AREA (TOFA)		SAME
PART 77 APPROACH SURFACE	AS	AS (U)
DEPARTURE SURFACE	DEP	DEP (U)
GLIDE SLOPE QUALIFICATION SURFACE	VGS	VGS (U)
THRESHOLD SITING SURFACE	TSS	TSS (U)
HOLDLINES & SIGNS		
AIRPORT REFERENCE POINT (ARP)		
VEGETATION		SAME

REV.	DATE	DESCRIPTION	BY

WEST LIBERTY AIRPORT
WEST LIBERTY, KENTUCKY

WEST LIBERTY AIRPORT
LAYOUT PLAN

Inner Portion of Approach Surface Drawing 25

JOB NO.: 21A14220
DATE: AUGUST 2023
DESIGNED BY: NRP
DRAWN BY: JJL

BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
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APPENDIX A - PROJECT LAYOUT EXHIBIT (RW 25 END)

SHEET NUMBER

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APPENDIX B

Biological Resources
(Federal and State Listed Species Lists)
And Agency Coordination

2049 E. Joyce Blvd.
Suite 400
Fayetteville, AR 72703

TEL 479.527.9100
FAX 479.527.9101

www.GarverUSA.com

October 15, 2025

Lopa Naik
Lopa.Naik@faa.gov

Re: 9I3 Runway 7-25 Obstruction Removal
West Liberty Airport (9I3), West Liberty, Kentucky
USFWS IPaC Consultation Code: 2025-0104398

Ms. Naik,

A National Environmental Policy Act (NEPA) Environmental Assessment (EA) is being prepared to address the potential environmental impacts associated with a Runway 7-25 Obstruction Removal project at the West Liberty Airport in West Liberty, Kentucky (**Figure 1**). The EA will be submitted to the Federal Aviation Administration (FAA) for review and approval. The purpose of the Proposed Action is to remove these obstructions that are penetrating the 20:1 Threshold Siting Surface (TSS) and Part 77 Approach Surface (AS) as shown in attached Layout Plan. The Airport needs to remove these obstructions to provide safe approaches for landing aircraft and for compliance with Code of Federal Regulation (CFR) Part 77 airspace regulations. Tree cutting will be by hand with chainsaws and stumps will be ground to existing grade. Lights will be affixed to the top of utility structures that cannot be removed. The proposed project area is shown on the attached maps, and obstruction removal will be completed between February 1, 2027 and March 30, 2027.

This letter serves to provide information on the occurrence of suitable habitat for the federally protected threatened or endangered species listed on the IPaC project planning tool (attached) for the 9I3 Runway 7-25 Obstruction Removal project located at the airport. A limited site investigation of the study area was conducted on August 7, 2025, and included areas where tree removal may occur (see attached Layout Plan). This habitat assessment did not include official surveys for, or reveal evidence of, federally listed species during the site investigation.

Habitat Overview
The study area, where trees are proposed for removal, is located within private and airport owned parcels and contains steep wooded slopes, residential yards, and other maintained grass areas. The approximately 9-acre study area (split between the Runway 7 end and Runway 25 end as shown in the attached figures) consists of 3.5 acres of trees with the remainder as grass areas and built infrastructure including buildings and roadways. Observed vegetation included white oak (*Quercus alba*), tulip poplar (*Liriodendron tulipifera*), dogwood (*Cornus* species), hornbeam (*Carpinus caroliniana*), sugar maple (*Acer saccharum*), and Christmas fern (*Polystichum acrostichoides*). Three homes, three outbuildings, and one business is located in the study area. No impacts will occur to these structures.

Onsite aquatic resources were assessed and no wetlands and one ephemeral to intermittent stream reach (other waters, or OW) were identified within the study area (**Figure 2**). At its upper reaches, OW 1 was ephemeral in nature and exhibited shallow Ordinary High Water Marks characterized by lack of vegetation

and due to flashy flows. It is not mapped by USGS; however, it showed slight evidence of sediment sorting with lack of bank vegetation at the toe of slope of the channel suggesting it transitions from ephemeral (upstream) to intermittent (downstream) within the Runway 7 end project study area.

Refer to **Table 1** for federally listed species, habitat requirements, and effects determinations identified for this project. **Figure 2** depicts the study area and potential habitat present.

Table 1. Federally Listed Species and Habitat Requirements

Species/Status	Habitat Requirements	Suitable Habitat within Direct Study Area (SA)	Preliminary Effect Determination
Gray Bat (*Myotis grisescens*) Endangered	The gray bat occurs in limestone karst areas and primarily uses caves throughout the year, although they move from one cave to another seasonally. Smaller colonies also occasionally roost under bridge structures.	No caves, mines, or tunnels are within the study area.	No Effect
Indiana Bat (*Myotis sodalis*) Endangered	The Indiana Bat hibernates in cool caves and mines in the winter and wooded areas in the spring and summer. During summer, colonies are found behind slabs of exfoliating bark of dead trees, often in bottomland or floodplain habitats, but also in upland situations.	Suitable habitat is present within the study area. Trees to be removed are mature and may provide suitable summer roosting habitat.	May Affect, Not Likely to Adversely Affect
Northern Long-eared Bat (*Myotis septentrionalis*) Endangered	In winter, northern long-eared bats use caves, mine portals, abandoned tunnels, protected sites along cliff lines and similar situations that afford protection from cold. During the summer they roost singly or in colonies underneath bark, in cavities, or in crevices of both live and dead trees.	Rock bluffs are within the project area. Trees to be removed are mature and may provide suitable summer roosting habitat.	May Affect, Not Likely to Adversely Affect
Tricolored Bat (*Perimyotis subflavus*) Proposed Endangered	In winter, Tricolored Bats hibernate in caves, mine portals, and man-made structures such as box culverts. During the summer they prefer to roost in the clumps of dead leaves of oak trees within complex oak forests greater than 50 years old. Less commonly, they will roost in clumps of dead pine needles attached to living trees. They commonly forage along riparian corridors. Maternity colonies also may utilize human-made structures or tree cavities; sometimes these are in open sites that would not be tolerated by most other bats.	No caves were observed within or near the project site. Forest with mature trees do exist in the study area while riparian corridors do adjacent to the study area.	Will not jeopardize the continued existence

Species/Status	Habitat Requirements	Suitable Habitat within Direct Study Area (SA)	Preliminary Effect Determination
Virginia Big-eared Bat (*Corynorhinus [=Plecotus] townsendii virginianus*) Endangered	Virginia big-eared bats roost in caves all year long and forage in nearby woodland and pasture habitats.	No caves are located in the study area.	May Affect, Not Likely to Adversely Affect
Eastern Hellbender *(Cryptobranchus alleganiensis alleganiensis)* Proposed Endangered	Found in cool, clear, fast-flowing streams and rivers with low sedimentation and pollution. Adult individuals require large, flat rocks for shelter and nesting. Juveniles require gravel and cobble substrates for cover and to support prey populations.	No suitable habitat is located within the study area or will be affected by the Proposed Action.	Not likely to jeopardize the continued existence of the species
Pink Mucket *(Lampsilis abrupta)* Endangered	The pink mucket inhabits large and fast moving rivers with gravel and cobble substrates.	No suitable habitat is located within the study area or will be affected by the Proposed Action.	No Effect
Salamander Mussel (*Simpsonaias ambigua)* Proposed Endangered	The salamander mussel inhabits fast moving rivers under large flat rocks,	No suitable habitat is located within the study area or will be affected by the Proposed Action.	Not likely to jeopardize the continued existence of the species
Snuffbox Mussel (*Epioblasma triquetra*) Endangered	The snuffbox mussel inhabits small to large rivers within riffles. They also inhabit banks of lakes with wave action.	The ephemeral to intermittent stream in the study area does not have the hydrologic regime to support the snuffbox mussel.	No Effect
Monarch Butterfly (*Danaus plexippus*) Proposed Threatened	Monarch butterflies require the presence of milkweed (*Asclepias sp.*), flowering or potentially flowering nectar plants (defined as forbs that can provide nectar for monarchs at some point in the growing season), and additional native habitat such as meadows, prairies, and grasslands.	Potentially suitable habitat (flowering nectar plants) is possible within the study area. No milkweed species were observed within the study area.	Not likely to jeopardize the continued existence of the species

The photographs below show the typical habitats observed within the study area.



Photo 1 – View of OW1. Downstream is to the right (southwest).



Photo 2 – View of OW1 looking upstream.



Photo 3 – View to the west of the Runway 7 end study area.



Photo 4 – View to the southwest of the Runway 7 end study area forested areas.



Photo 5 – View to the east, northeast of the Runway 25 end study area.



Photo 6 – View to the southeast of the Runway 25 end study area where trees 4, 5, and 6 as shown in the Plan Layout.



Photo 7 – View of the vegetation near trees 4, 5, and 6 within the Runway 25 end study area as shown in the Plan Layout. Dominant vegetation here included Japanese honeysuckle, Johnsongrass, Indianhemp, panicled ticktrefoil, Nepalese browntop, deertounge, and sumac.

This information is to document habitat within the study area. We respectfully request your concurrence with these findings. Thank you for your assistance and please call me (479-879-9746) or email (JCMarshall@GarverUSA.com) if you have any questions or need any additional information.

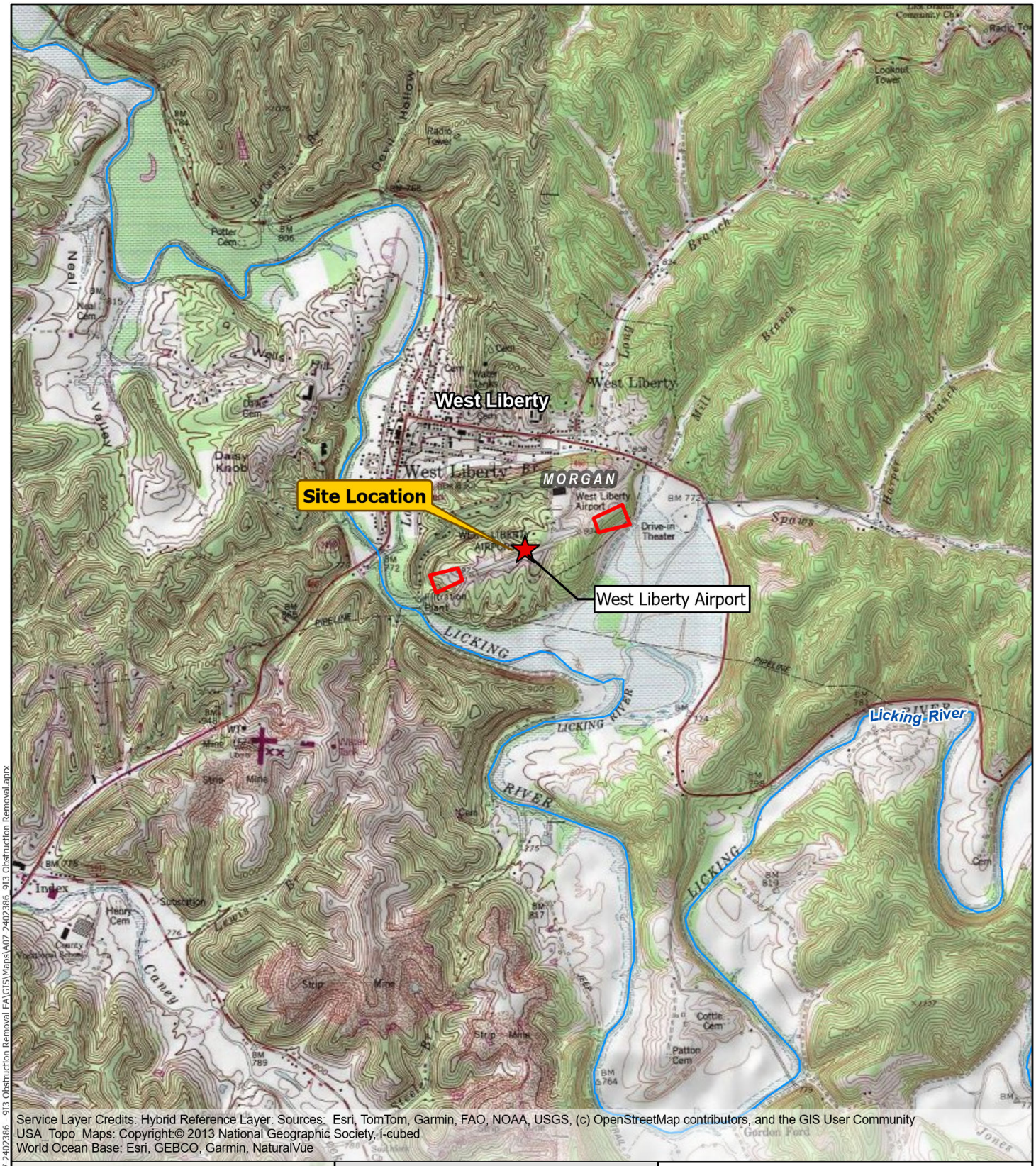
Sincerely,
GARVER, LLC

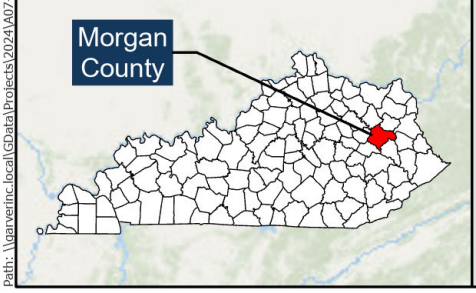


Colby Marshall
Environmental Scientist

Copies To: Ryan Mountain, PWS - Garver

Enclosures: Figure 1 - Site Location Map
Figure 2 - Habitat Overview Map
Layout Plan
IPaC Official Species List
USFWS Technical Assistance Letters





Site Location

APE/Direct Study Area

APPENDIX A - SITE LOCATION MAP

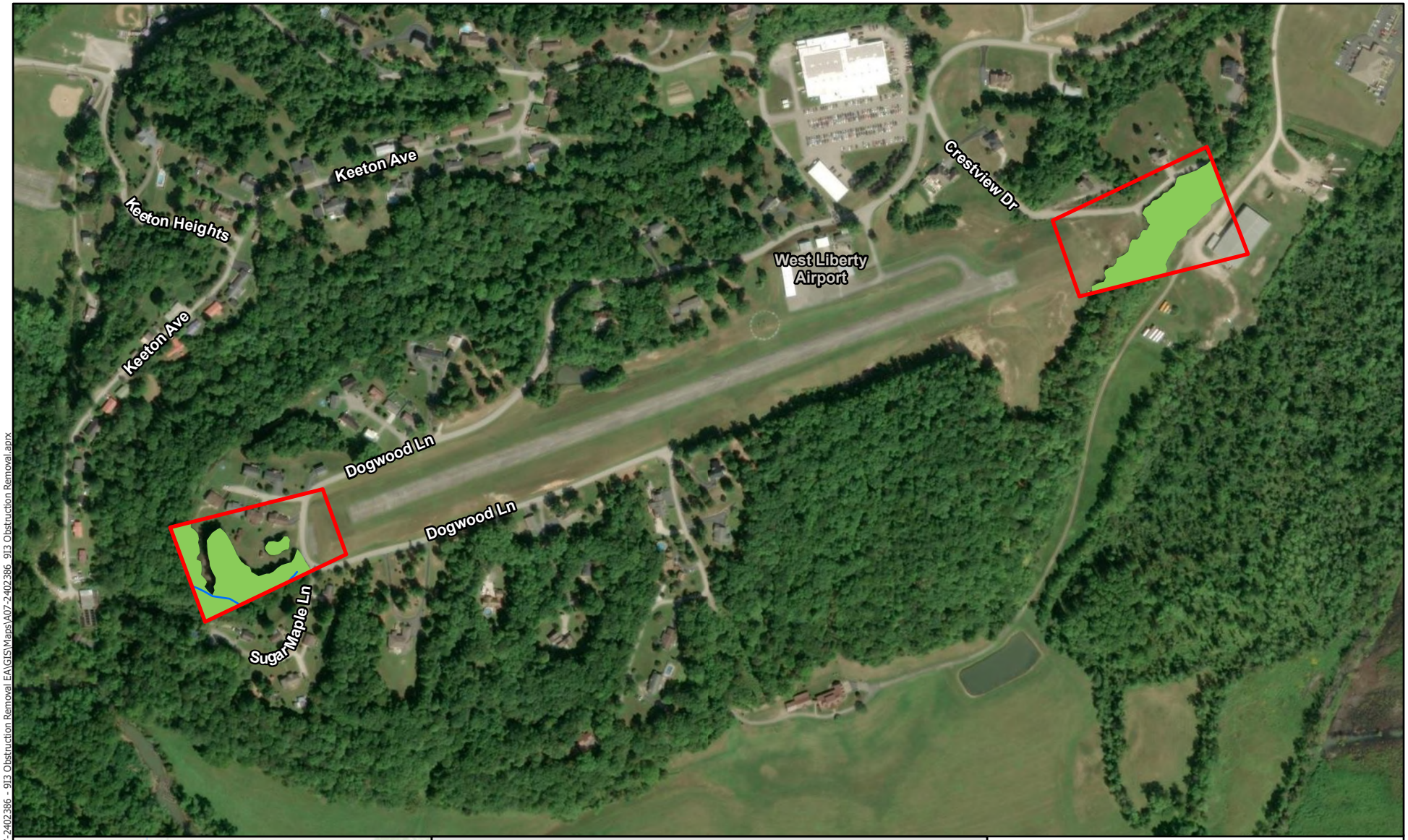
West Liberty Airport (9I3)
Runway 7-25
Obstruction Removal

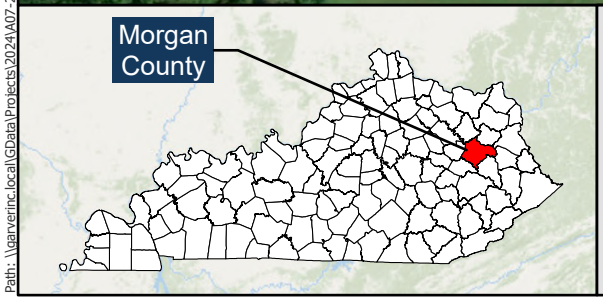
N

0 0.25 0.5 1

Miles

Path: \\garverinc.local\GData\Projects\2024\A07-2402386 - 913 Obstruction Removal EA\GIS\Maps\A07-2402386_913 Obstruction Removal.aprx





Direct Study Area
Tree Area
Stream

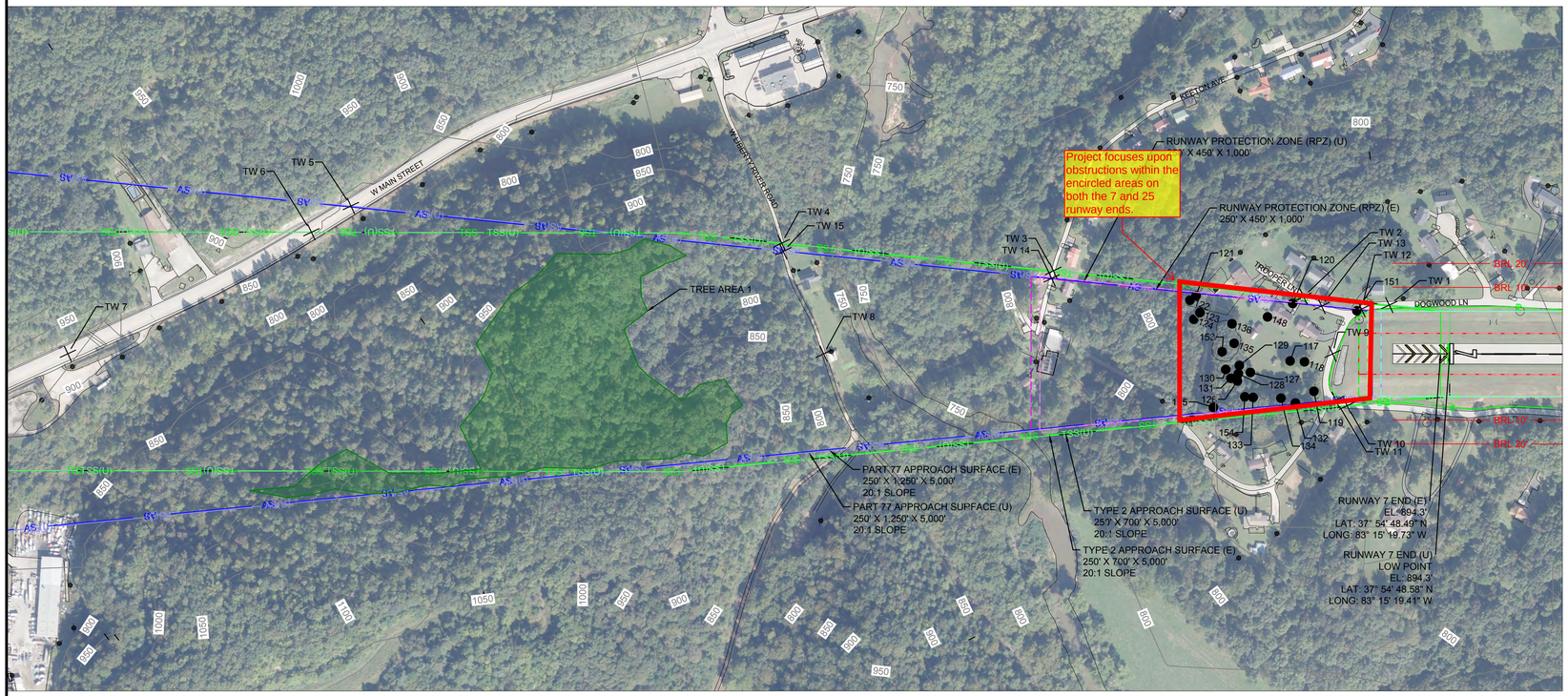
Figure 2: Habitat Map

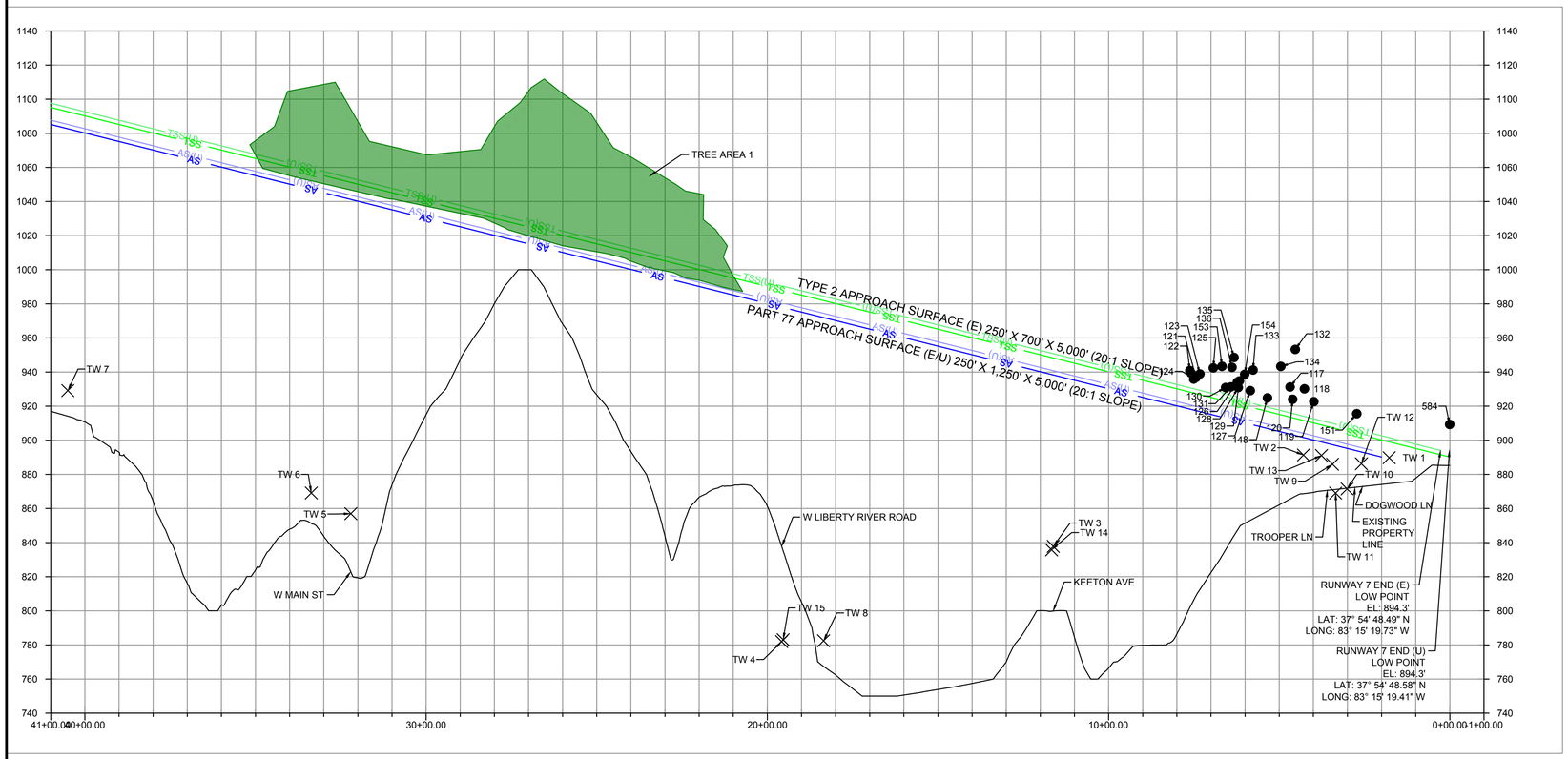
9I3 Obstruction Removal
Morgan County, Kentucky

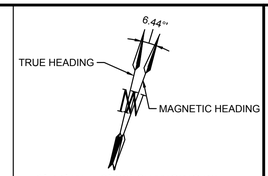
N

0 250 500 1,000
Feet

Path: \\garverinc.local\GData\Projects\2024\A07-2402386 - 9I3 Obstruction Removal EA\GIS\Maps\A07-2402386 9I3 Obstruction Removal.aprx







NOTES:

1. VERTICAL EXAGERATION IS 5' IN THE PROFILE.
2. OBSTRUCTION SURVEY WAS COMPLETED IN DECEMBER 2021.
3. FOR ULTIMATE PART 77 SURFACE OBSTRUCTIONS, SEE AIRSPACE DRAWING.
4. ALL TRAVERSE WAY CLEARANCES HAVE BEEN ADJUSTED FOR HEIGHT OF NATURAL OBJECTS, 10' FOR PRIVATE ROADS, 15' FOR PUBLIC ROADS, 17' FOR INTERSTATE HIGHWAYS, 23' FOR RAILROADS.
5. TOPOGRAPHIC CONTOURS ARE AT 50' INTERVALS DUE TO STEEP TOPOGRAPHY AROUND THE AIRPORT.
6. TW STAND FOR TRAVERSE WAY.
7. NO FUTURE DEVELOPMENT SHOWN IN APPROACH AREA.

THE PREPARATION OF THESE DOCUMENTS WAS FINANCED IN PART THROUGH A PLANNING GRANT FROM THE FEDERAL AVIATION ADMINISTRATION AS PROVIDED UNDER SECTION 505 OF THE AIRPORT AND AIRWAY IMPROVEMENT ACT OF 1982, AS AMENDED. THE CONTENTS DO NOT NECESSARILY REFLECT THE OFFICIAL VIEWS OR POLICY OF THE FAA. ACCEPTANCE OF THESE DOCUMENTS BY THE FAA DOES NOT IN ANY WAY CONSTITUTE A COMMITMENT ON THE PART OF THE UNITED STATES TO PARTICIPATE IN ANY DEVELOPMENT DEPICTED HEREIN NOR DOES IT INDICATE THAT THE PROPOSED DEVELOPMENT IS ENVIRONMENTALLY ACCEPTABLE IN ACCORDANCE WITH APPROPRIATE PUBLIC LAWS.

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TITLE, AIRPORT SPONSOR'S REPRESENTATIVE

SIGNATURE DATE

FEDERAL AVIATION ADMINISTRATION APPROVAL BLOCK

LEGEND

ITEM	EXISTING	ULTIMATE
BUILDING RESTRICTION LINE	BRL 35'	BRL 35'
AIRPORT PROPERTY LINE	P	P(U)
FENCE	X	XX
AIRFIELD PAVEMENT		
PAVEMENT REMOVAL		
BEACON		
FUEL STORAGE AND PUMPS		SAME
BUILDINGS		
LIGHTED WIND CONE & SEGMENTED CIRCLE		
AWOS		
GROUND CONTOURS	680	SAME
PRECISION APPROACH PATH INDICATOR (PAPI)		
THRESHOLD LIGHTS		
RUNWAY PROTECTION ZONE (RPZ)		
RUNWAY SAFETY AREA (RSA)		
RUNWAY OBJECT FREE AREA (OFA)		
RUNWAY OBSTACLE FREE ZONE (OFZ)		
TAXIWAY SAFETY AREA (TSA)		SAME
TAXIWAY OBJECT FREE AREA (TOFA)		SAME
PART 77 APPROACH SURFACE	AS	AS (U)
DEPARTURE SURFACE	DEP	DEP (U)
GLIDE SLOPE QUALIFICATION SURFACE	VGS	VGS (U)
THRESHOLD SITING SURFACE	TSS	TSS (U)
HOLDLINES & SIGNS		
AIRPORT REFERENCE POINT (ARP)		
VEGETATION		SAME

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REV	DATE	DESCRIPTION	BY

WEST LIBERTY AIRPORT
WEST LIBERTY, KENTUCKY

WEST LIBERTY AIRPORT
LAYOUT PLAN

Inner Portion of Approach Surface Drawing 7

JOB NO.: 21A14220
DATE: AUGUST 2023
DESIGNED BY: NRP
DRAWN BY: JJL

BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

APPENDIX A - PROJECT LAYOUT EXHIBIT (RW 7 END)

SHEET NUMBER

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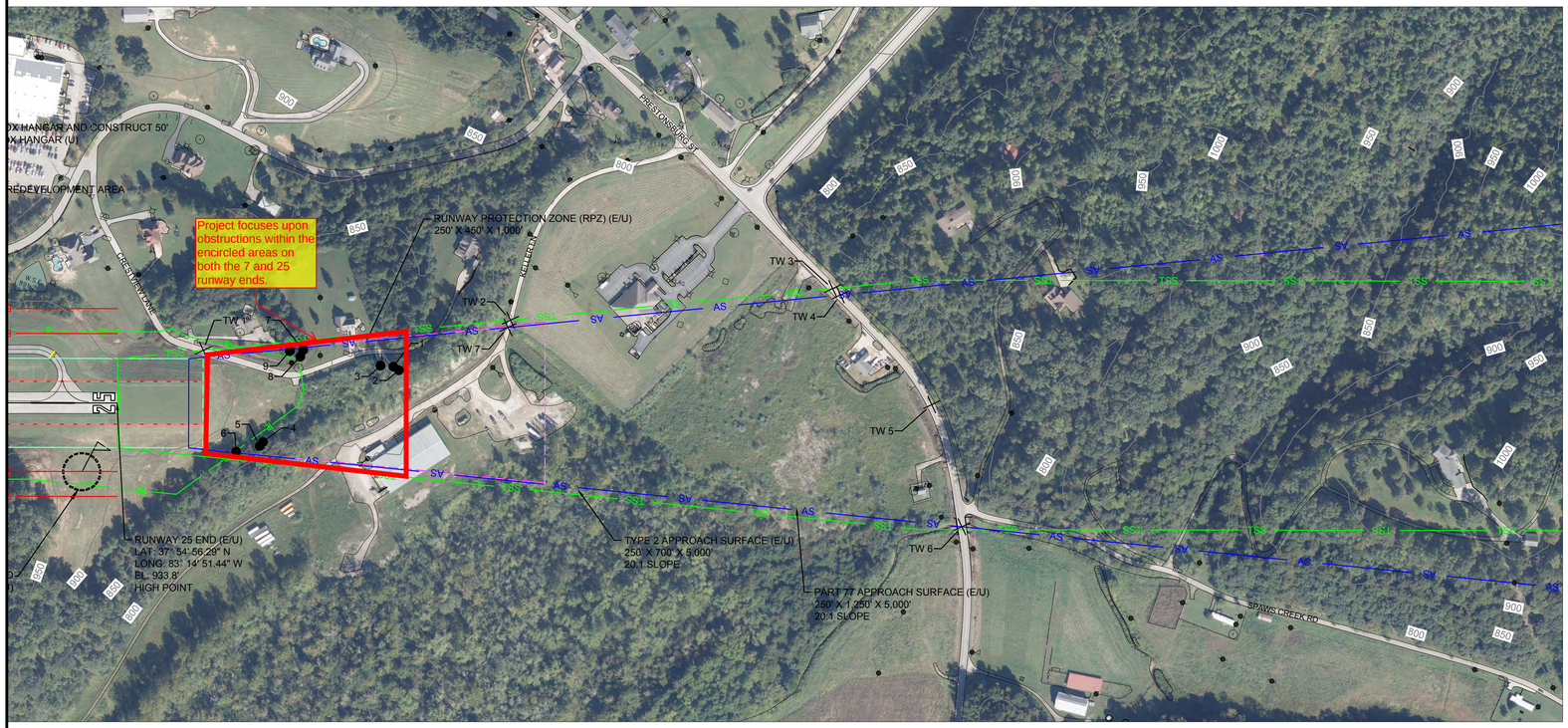

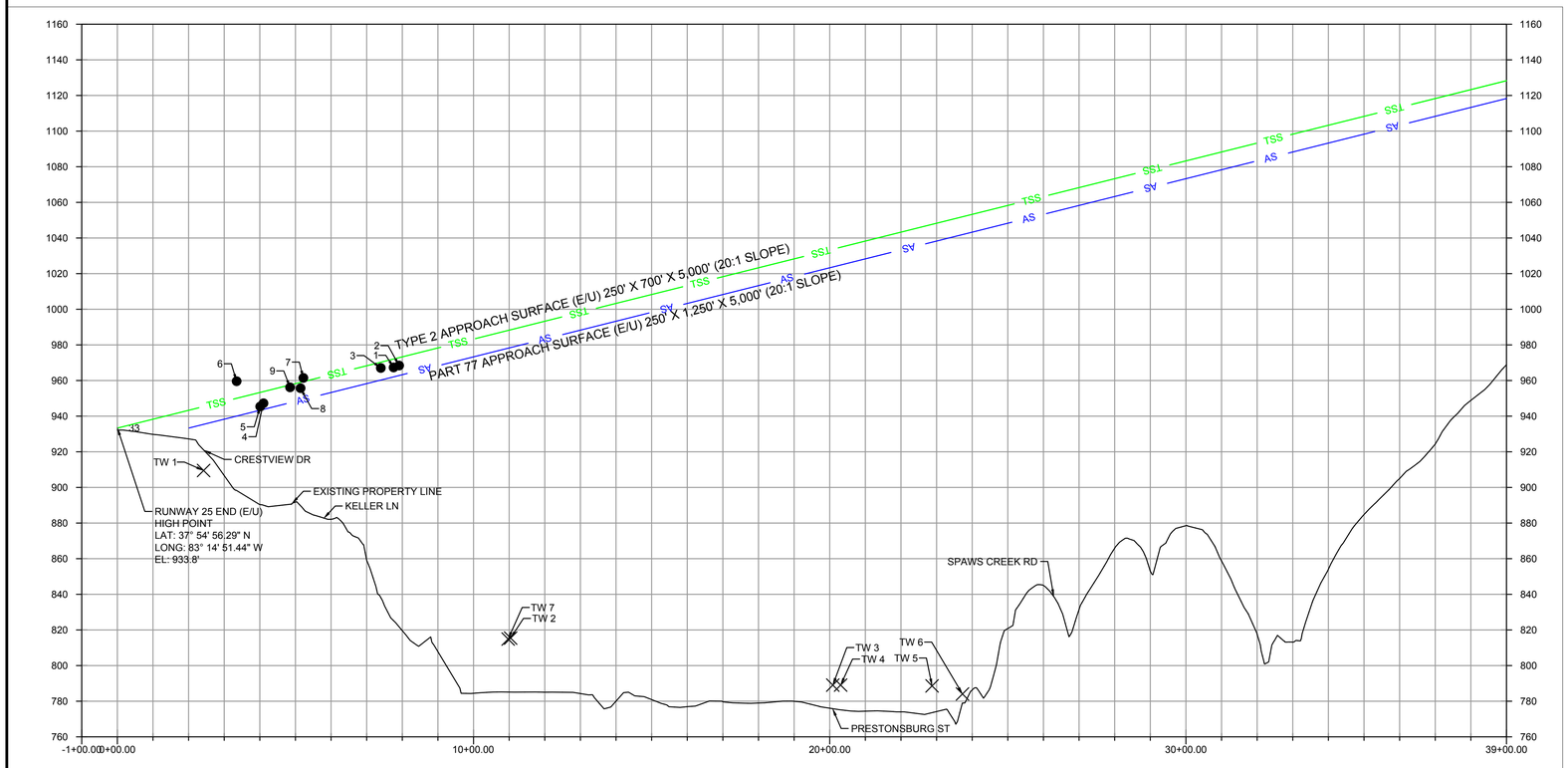

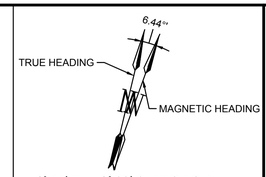

6° 44' W ± 0° 22' CHANGING BY
0° 3' W PER YEAR (JULY 2023)

0 100' 200' 400' 600'

(IN FEET)

NOTES:

1. VERTICAL EXAGERATION IS 5' IN THE PROFILE.
2. OBSTRUCTION SURVEY WAS COMPLETED ON DECEMBER 2021.
3. ALL TRAVERSE WAY CLEARANCES HAVE BEEN ADJUSTED FOR HEIGHT OF NATURAL OBJECTS, 10' FOR PRIVATE ROADS, 15' FOR PUBLIC ROADS, 17' FOR INTERSTATE HIGHWAYS, 23' FOR RAILROADS.
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AIRPORT SPONSOR BLOCK

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TITLE, AIRPORT SPONSOR'S REPRESENTATIVE

SIGNATURE DATE

FEDERAL AVIATION ADMINISTRATION APPROVAL BLOCK

LEGEND

ITEM	EXISTING	ULTIMATE
BUILDING RESTRICTION LINE	BRL 35'	BRL 35'
AIRPORT PROPERTY LINE	P	P(U)
FENCE	X	XX
AIRFIELD PAVEMENT		
PAVEMENT REMOVAL		
BEACON		
FUEL STORAGE AND PUMPS		SAME
BUILDINGS		
LIGHTED WIND CONE & SEGMENTED CIRCLE		
AWOS		
GROUND CONTOURS	680	SAME
PRECISION APPROACH PATH INDICATOR (PAPI)		
THRESHOLD LIGHTS		
RUNWAY PROTECTION ZONE (RPZ)		
RUNWAY SAFETY AREA (RSA)		
RUNWAY OBJECT FREE AREA (OFA)		
RUNWAY OBSTACLE FREE ZONE (OFZ)		
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TAXIWAY OBJECT FREE AREA (TOFA)		SAME
PART 77 APPROACH SURFACE	AS	AS (U)
DEPARTURE SURFACE	DEP	DEP (U)
GLIDE SLOPE QUALIFICATION SURFACE	VGS	VGS (U)
THRESHOLD SITING SURFACE	TSS	TSS (U)
HOLDLINES & SIGNS		
AIRPORT REFERENCE POINT (ARP)		
VEGETATION		SAME

REV.	DATE	DESCRIPTION	BY

WEST LIBERTY AIRPORT
WEST LIBERTY, KENTUCKY

WEST LIBERTY AIRPORT
LAYOUT PLAN

Inner Portion of Approach Surface Drawing 25

JOB NO.: 21A14220
DATE: AUGUST 2023
DESIGNED BY: NRP
DRAWN BY: JJL

BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
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APPENDIX A - PROJECT LAYOUT EXHIBIT (RW 25 END)

SHEET NUMBER

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Last plotted by: Littrell, Jacob J. Plot Style: AEChrono.ctb Plot Scale: 1:1 Plot Date: 8/14/2023 3:37 PM Plotter used: AutoCAD PDF (General Documentation).pc3

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Kentucky Ecological Services Field Office
J C Watts Federal Building, Room 265
330 West Broadway
Frankfort, KY 40601-8670
Phone: (502) 695-0467 Fax: (502) 695-1024
Email Address: kentuckyes@fws.gov

In Reply Refer To: 01/09/2026 18:27:36 UTC
Project Code: 2025-0104398
Project Name: 9I3 Runway 7-25 Obstruction Removal

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the

human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

https://www.fws.gov/sites/default/files/documents/endangered-species-consultation-handbook.pdf

Migratory Birds: In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts, see https://www.fws.gov/program/migratory-bird-permit/what-we-do..

It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a federal nexus) or a Bird/Eagle Conservation Plan (when there is no federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures, see https://www.fws.gov/library/collections/threats-birds.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of Executive Order 13186, please visit https://www.fws.gov/partner/council-conservation-migratory-birds.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List

OFFICIAL SPECIES LIST

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Kentucky Ecological Services Field Office
J C Watts Federal Building, Room 265
330 West Broadway
Frankfort, KY 40601-8670
(502) 695-0467

PROJECT SUMMARY

Project Code: 2025-0104398
Project Name: 9I3 Runway 7-25 Obstruction Removal
Project Type: Airport - Maintenance/Modification
Project Description: West Liberty Airport (9I3) has identified individual trees as obstructions to the approach surfaces to Runway 7-25. The purpose of the Proposed Action is to remove these obstructions that are penetrating the 20:1 Threshold Siting Surface (TSS) and Part 77 Approach Surface (AS). The Airport needs to remove these obstructions to provide safe approaches for landing aircraft and for compliance with Code of Federal Regulation (CFR) Part 77 airspace regulations. The project includes removal of individual trees have been identified as obstructions, which are located off airport property on privately owned properties. Obstruction removal will include tree felling by hand and left in place or removed, with stumps ground to existing grade.

Project Location:

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@37.91601645,-83.24591495925029,14z



Counties: Morgan County, Kentucky

ENDANGERED SPECIES ACT SPECIES

There is a total of 10 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. Note that 1 of these species should be considered only under certain conditions.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries[1], as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

---

1. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

MAMMALS

NAME	STATUS
Gray Bat *Myotis grisescens* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/6329 General project design guidelines: https://ipac.ecosphere.fws.gov/project/JXSSJ67V35EVNEUMHJLKKP5KRU/documents/generated/6422.pdf	Endangered
Indiana Bat *Myotis sodalis* There is **final** critical habitat for this species. Your location does not overlap the critical habitat. This species only needs to be considered under the following conditions: ▪ The project area includes 'potential' habitat. All activities in this location should consider possible effects to this species. Species profile: https://ecos.fws.gov/ecp/species/5949 General project design guidelines: https://ipac.ecosphere.fws.gov/project/JXSSJ67V35EVNEUMHJLKKP5KRU/documents/generated/6422.pdf	Endangered
Northern Long-eared Bat *Myotis septentrionalis* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045 General project design guidelines: https://ipac.ecosphere.fws.gov/project/JXSSJ67V35EVNEUMHJLKKP5KRU/documents/generated/6422.pdf	Endangered
Tricolored Bat *Perimyotis subflavus* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/10515	Proposed Endangered
Virginia Big-eared Bat *Corynorhinus (=Plecotus) townsendii virginianus* There is **final** critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/8369 General project design guidelines: https://ipac.ecosphere.fws.gov/project/JXSSJ67V35EVNEUMHJLKKP5KRU/documents/generated/6422.pdf	Endangered

AMPHIBIANS

NAME	STATUS
Eastern Hellbender *Cryptobranchus alleganiensis alleganiensis* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9039	Proposed Endangered

CLAMS

NAME	STATUS
Pink Mucket (pearlymussel) *Lampsilis abrupta* No critical habitat has been designated for this species.	Endangered

NAME	STATUS
Species profile: https://ecos.fws.gov/ecp/species/7829 General project design guidelines: https://ipac.ecosphere.fws.gov/project/JXSSJ67V35EVNEUMHJLKKP5KRU/documents/generated/5639.pdf	
Salamander Mussel *Simpsonaias ambigua* There is **proposed** critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/6208	Proposed Endangered
Snuffbox Mussel *Epioblasma triquetra* There is **proposed** critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/4135	Endangered

INSECTS

NAME	STATUS
Monarch Butterfly *Danaus plexippus* There is **proposed** critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/9743	Proposed Threatened

CRITICAL HABITATS

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

IPAC USER CONTACT INFORMATION

Agency: West Liberty city
Name: Garver LLC
Address: 4300 South J.B Hunt Drive, Suite 240
Address Line 2: Suite 240
City: Rogers
State: AR
Zip: 72758
Email arbiologist@garverusa.com
Phone: 4792874628

LEAD AGENCY CONTACT INFORMATION

Lead Agency: Federal Aviation Administration

You have indicated that your project falls under or receives funding through the following special project authorities:

- BIPARTISAN INFRASTRUCTURE LAW (BIL) (OTHER)

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Kentucky Ecological Services Field Office
J C Watts Federal Building, Room 265
330 West Broadway
Frankfort, KY 40601-8670
Phone: (502) 695-0467 Fax: (502) 695-1024
Email Address: kentuckyes@fws.gov

In Reply Refer To: 05/01/2026 17:53:22 UTC
Project code: 2025-0104398
Project Name: 9I3 Runway 7-25 Obstruction Removal

Subject: Technical Assistance letter for the project named '9I3 Runway 7-25 Obstruction Removal' for the endangered Indiana bat and its critical habitat in the proposed project location, pursuant to the Indiana Bat Determination Key (DKey)

Dear Garver LLC:

The U.S. Fish and Wildlife Service (Service) received on **May 01, 2026** your effect determination(s) for the '9I3 Runway 7-25 Obstruction Removal' using the Indiana Bat DKey within the Information for Planning and Consultation (IPaC) system. The Service developed this system in accordance with the Endangered Species Act of 1973 (ESA) (87 Stat.884, as amended; 16 U.S.C. 1531 et seq.).

You have agreed to the following conservation measures:

- All suitable Indiana bat forested habitat will be removed from October 16 - March 31.

Based on your answers and the assistance of the Service's Indiana Bat DKey, you made the following effect determination(s) for the proposed Action:

Species	Listing Status	Determination
Indiana Bat (*Myotis sodalis*)	Endangered	NLAA

Consultation Status

Consultation with the Service is not complete. The above effect determination(s) becomes applicable when the lead federal action agency or designated non-federal representative submits them as a request to the Service to rely on the Indiana Bat DKey in order to satisfy the agency's consultation requirements for this project.

Please provide this technical assistance letter to the lead federal action agency or its designated non- federal representative with a request for its review, and as the agency deems appropriate, to submit for concurrence verification through the IPaC system. The lead federal action agency or designated non-federal representative should log into IPaC using their agency email account and click "Search by record locator." They will need to enter the record locator **717-180698321**

The Service recommends that your agency contact the Kentucky Ecological Services Field Office or re-evaluate the Action in IPaC if: 1) the scope, timing, duration, or location of the Action changes, 2) new information reveals the Action may affect listed species or designated critical habitat, or 3) a new species is listed or critical habitat designated. If any of the above conditions occurs, additional consultation with the Kentucky Ecological Services Field Office should take place before project changes are final or resources committed.

In addition to the Indiana bat, the following species and/or critical habitats may also occur in your project area and **are not** covered by this conclusion:

- Eastern Hellbender *Cryptobranchus alleganiensis alleganiensis* Proposed Endangered
- Gray Bat *Myotis grisescens* Endangered
- Monarch Butterfly *Danaus plexippus* Proposed Threatened
- Northern Long-eared Bat *Myotis septentrionalis* Endangered
- Pink Mucket (pearlymussel) *Lampsilis abrupta* Endangered
- Salamander Mussel *Simpsonaias ambigua* Proposed Endangered
- Snuffbox Mussel *Epioblasma triquetra* Endangered
- Tricolored Bat *Perimyotis subflavus* Proposed Endangered
- Virginia Big-eared Bat *Corynorhinus (=Plecotus) townsendii virginianus* Endangered

To address effects to other federally listed or proposed species and/or their designated critical habitat, you can request project-specific review by following the instructions in the “Next Steps” section of your species list letter, or you may use another determination key, if available.

Additional Coordination

To request additional technical assistance or consultation, please contact the Kentucky Ecological Services Field Office . When you contact the office, please provide all relevant site-specific information regarding the proposed Action. The Kentucky Ecological Services Field Office will respond within 30 to 60 days of your submittal.

Action Description
You provided to IPaC the following name and description for the subject Action.

1. Name

9I3 Runway 7-25 Obstruction Removal

2. Description

The following description was provided for the project '9I3 Runway 7-25 Obstruction Removal':

> West Liberty Airport (9I3) has identified individual trees as obstructions to the approach surfaces to Runway 7-25. The purpose of the Proposed Action is to remove these obstructions that are penetrating the 20:1 Threshold Siting Surface (TSS) and Part 77 Approach Surface (AS). The Airport needs to remove these obstructions to provide safe approaches for landing aircraft and for compliance with Code of Federal Regulation (CFR) Part 77 airspace regulations. The project includes removal of individual trees have been identified as obstructions, which are located off airport property on privately owned properties. Obstruction removal will include tree felling by hand and left in place or removed, with stumps ground to existing grade.

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@37.91601645,-83.24591495925029,14z



QUALIFICATION INTERVIEW

1. Does the project intersect the Indiana bat species list area?

   Automatically answered
   Yes

2. Will the proposed action involve Federal funding, permitting, or authorization, or will it be carried out by a Federal Agency?

   Yes

3. Does the proposed action include a communication tower requiring Federal Communication Commission (FCC) authorization or approval?

   No

4. Is the Federal Highway Administration (FHWA), Federal Railroad Administration (FRA), or Federal Transit Administration (FTA) the lead Federal Agency for this action?

   No

5. Are you the lead Federal Action Agency or designated non-federal representative requesting concurrence on behalf of the lead Federal Action Agency?

   No

6. Will the proposed Action involve construction or operation of a wind turbines?

   No

7. Will the proposed Action involve blasting, other than a fireworks display?

   No

8. Will the proposed Action involve a new point source discharge from a facility other than a water treatment plant or storm water system?

   No

9. Will the proposed Action involve the creation of a new water-borne contaminant source (e.g., leachate pond, pits containing chemicals that are not NSF/ANSI 60 compliant)?

   Note: For information regarding NSF/ANSI 60 please visit https://www.nsf.org/knowledge-library/nsf-ansi-standard-60-drinking-water-treatment-chemicals-health-effects

   No

10. Will the proposed Action include the removal, replacement, repair and/or maintenance of an existing bridge?

    No

11. Will the proposed Action involve perennial stream loss that would require an individual permit under 404 of the Clean Water Act?

    No

12. Will the proposed Action involve discharge of sediment into a stream?

    No

13. Does the Action Area contain any caves (including their associated sinkholes, fissures, or other karst features), rockshelters, underground quarries, or abandoned mine portals (including associated underground workings)?

    No

14. Will the proposed project result in the removal of trees?

    Yes

15. Did a **FWS-approved** habitat model applicable to the project site determine the project site to be of low probability for use by Indiana bats?

    Note: This question will most commonly be answered "no." If the answer to this question is "yes", you will be required to upload your **Habitat Model Report**

    No

16. Will the proposed project result in the removal of potentially suitable summer habitat for the Indiana bat?

    Suitable summer habitat for Indiana bats consists of a wide variety of forested/wooded habitats where they roost, forage, and travel. This includes forests and woodlots, linear features such as fencerows, riparian forests, and other wooded corridors. These wooded areas may be dense or loose aggregates of trees with variable amounts of canopy closure. Individual trees may be considered suitable habitat when they exhibit the characteristics of a potential roost tree (live tree and/or snag ≥5 inches diameter at breast height (dbh) (12.7 centimeter) that has exfoliating bark, cracks, crevices, and/or hollows) and are located within 1,000 feet (305 meters) of other forested/wooded habitat. See the Indiana Bat and Northern Long-eared Bat Survey Guidelines for additional description (https://www.fws.gov/library/collections/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines).

    Note: If "no" upload a document with photos representative of the forested habitat to be removed.

    Yes

17. Does the action area intersect known Indiana bat habitat in Kentucky?

    Automatically answered
    No

18. Will the proposed Action remove any suitable (primary or alternate) Indiana bat roost trees? *Suitable Indiana bat roost trees are live trees and/or snags ≥5 inches diameter at breast height (dbh) (12.7 centimeter) that have exfoliating bark, cracks, crevices, and/or hollows.*

    Note: If "no" upload a document with photos representative of the forested habitat to be removed.

    Yes

19. Will the proposed Action remove any suitable primary roost trees?

    Suitable Indiana bat primary maternity roost tree refers to a dead tree or snag that is nine inches or greater in diameter at breast height and has loose or exfoliating bark, cracks, crevices, and/or hollows. A live tree may also qualify if it contains hollows or dead portions with loose or exfoliating bark, cracks, and/or crevices.

    Note: If "no" upload a document with photos representative of the forested habitat to be removed.

    No

    SUBMITTED DOCUMENTS

    - *9I3 Obs Rem_Draft HA 2026-02-27.pdf* *https://ipac.ecosphere.fws.gov/project/JXSSJ67V35EVNEUMHJLKKP5KRU/projectDocuments/180698278*

20. Will the tree removal reduce the area of forest and/or create an opening in the forest canopy? *Common projects that do not create such openings are often narrow (e.g. < 12 feet wide) recreational trails through forested habitats.*

    No

21. Will all suitable Indiana bat habitat forested habitat be removed from October 16 - March 31? This conservation measure would minimize impacts to Indiana bats.

    Note: Refer to the Indiana Bat and Northern Long-eared Bat Summer Survey Guidelines, Appendix L: Bat Activity Periods (https://www.fws.gov/library/collections/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines).

    Yes

22. Based on the responses you have provided, we believe that the proposed Action is consistent with the type of Actions programmatically evaluated by the Service under the standing analyses that supports this determination key. These Actions typically conclude with "no effect" or "may affect - not likely to adversely affect" determinations for the Indiana bat.

    What determination do you want to make for the Indiana bat:

    Note: IPaC will not provide a concurrence for "no effect" determinations, because there is no statutory requirement to request concurrence from the Service. IPaC will provide concurrence for “May affect – not likely to adversely affect” determinations. If you choose “May affect – likely to adversely affect” or “Unsure,” additional coordination with the Service is recommended.

    May affect – not likely to adversely affect (NLAA)

IPAC USER CONTACT INFORMATION

Agency: West Liberty city
Name: Garver LLC
Address: 4300 South J.B Hunt Drive, Suite 240
Address Line 2: Suite 240
City: Rogers
State: AR
Zip: 72758
Email arbiologist@garverusa.com
Phone: 4792874628

LEAD AGENCY CONTACT INFORMATION

Lead Agency: Federal Aviation Administration

You have indicated that your project falls under or receives funding through the following special project authorities:

- BIPARTISAN INFRASTRUCTURE LAW (BIL) (OTHER)

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Kentucky Ecological Services Field Office
J C Watts Federal Building, Room 265
330 West Broadway
Frankfort, KY 40601-8670
Phone: (502) 695-0467 Fax: (502) 695-1024
Email Address: kentuckyes@fws.gov

In Reply Refer To: 05/01/2026 17:59:28 UTC
Project code: 2025-0104398
Project Name: 9I3 Runway 7-25 Obstruction Removal

Subject: Technical Assistance letter for the project named '9I3 Runway 7-25 Obstruction Removal' for specified threatened and endangered species that may occur in your proposed project location consistent with the Kentucky Determination Key (DKey)

Dear Garver LLC:

The U.S. Fish and Wildlife Service (Service) received on **May 01, 2026** your effect determination(s) for the '9I3 Runway 7-25 Obstruction Removal' (Action) using the Kentucky (DKey) within the Information for Planning and Consultation (IPaC) system. The Service developed this system in accordance with the Endangered Species Act of 1973 (ESA) (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.).

Based on your answers and the assistance of the Service's Kentucky DKey, you made the following effect determination(s) for the proposed Action:

Species	Listing Status	Determination
Gray Bat (*Myotis grisescens*)	Endangered	No effect
Pink Mucket (pearlymussel) (*Lampsilis abrupta*)	Endangered	No effect
Snuffbox Mussel (*Epioblasma triquetra*)	Endangered	No effect
Virginia Big-eared Bat (*Corynorhinus (=Plecotus) townsendii virginianus*)	Endangered	NLAA

Consultation Status

Consultation with the Service is not complete. The above effect determination(s) becomes applicable when the lead federal action agency or designated non-federal representative submits them as a request to the Service to rely on the Kentucky DKey in order to satisfy the agency's consultation requirements for this project.

Please provide this technical assistance letter to the lead federal action agency or its designated non- federal representative with a request for its review, and as the agency deems appropriate, to submit for concurrence verification through the IPaC system. The lead federal action agency or designated non-federal representative should log into IPaC using their agency email account and click "Search by record locator." They will need to enter the record locator **717-180700234**

If there is no federal action agency for this project, the information in this letter is provided to you as technical assistance in your planning. Species with NLAA determinations are consistent with the programmatic evaluation in the standing analysis of proposed Actions the Kentucky Ecological Services Field Office has identified that typically do not result in significant adverse effects to that species.

The Service recommends that your agency contact the Kentucky Ecological Services Field Office or re-evaluate the Action in IPaC if: 1) the scope, timing, duration, or location of the Action changes, 2) new information reveals the Action may affect listed species or designated critical habitat, or 3) a new species is listed or critical habitat designated. If any of the above conditions occurs, additional consultation with the Kentucky Ecological Services Field Office should take place before project changes are final or resources committed.

The following species and/or critical habitats may also occur in your project area and **are not** covered by this conclusion:

- Eastern Hellbender *Cryptobranchus alleganiensis alleganiensis* Proposed Endangered
- Indiana Bat *Myotis sodalis* Endangered
- Monarch Butterfly *Danaus plexippus* Proposed Threatened
- Northern Long-eared Bat *Myotis septentrionalis* Endangered
- Salamander Mussel *Simpsonaias ambigua* Proposed Endangered
- Tricolored Bat *Perimyotis subflavus* Proposed Endangered

To address effects to other federally listed or proposed species and/or their designated critical habitat, you can request project-specific review by following the instructions in the “Next Steps” section of your species list letter, or you may use another determination key, if available.

Additional Coordination

To request additional technical assistance or consultation, please contact the Kentucky Ecological Services Field Office . When you contact the office, please provide all relevant site-specific information regarding the proposed Action. The Kentucky Ecological Services Field Office will respond within 30 to 60 days of your submittal.

Action Description
You provided to IPaC the following name and description for the subject Action.

1. Name

9I3 Runway 7-25 Obstruction Removal

2. Description

The following description was provided for the project '9I3 Runway 7-25 Obstruction Removal':

> West Liberty Airport (9I3) has identified individual trees as obstructions to the approach surfaces to Runway 7-25. The purpose of the Proposed Action is to remove these obstructions that are penetrating the 20:1 Threshold Siting Surface (TSS) and Part 77 Approach Surface (AS). The Airport needs to remove these obstructions to provide safe approaches for landing aircraft and for compliance with Code of Federal Regulation (CFR) Part 77 airspace regulations. The project includes removal of individual trees have been identified as obstructions, which are located off airport property on privately owned properties. Obstruction removal will include tree felling by hand and left in place or removed, with stumps ground to existing grade.

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@37.91601645,-83.24591495925029,14z



QUALIFICATION INTERVIEW

1. Will the proposed Action involve Federal funding, permitting, or authorization, or will it be carried out by a Federal Agency?

   Yes

2. Does the proposed action include a communication tower requiring Federal Communication Commission (FCC) authorization or approval?

   No

3. Are you the lead Federal Action Agency or designated non-federal representative requesting concurrence on behalf of the lead Federal Action Agency?

   No

4. [Hidden Semantic] Does the action area intersect critical habitat?

   Automatically answered
   No

5. Will the proposed Action involve construction or operation of wind turbines?

   No

6. Will the proposed Action involve blasting (other than a fireworks display)?

   No

7. Will the proposed Action involve a new point source discharge from a facility other than a water treatment plant or storm water system?

   No

8. Will the proposed Action involve the creation of a new water-borne contaminant source (e.g. leachate pond, pits containing chemicals that are not NSF/ANSI 60 compliant)?

   No

9. Will the proposed Action include the removal, replacement, repair and/or maintenance of an existing bridge or culvert?

   No

10. Will the proposed Action involve perennial stream loss that would require an individual permit under 404 of the Clean Water Act?

    No

11. Will the proposed Action involve discharge of sediment into a stream?

    No

12. Does the Action Area contain any caves (including their associated sinkholes, fissures, or other karst features), rockshelters, underground quarries, or abandoned mine portals (including associated underground workings)?

    No

13. [Hidden Semantic] Does the Action Area intersect the Kentucky AOI of the gray bat?

    Automatically answered
    Yes

14. Will the proposed Action involve drilling or boring?

    No

15. Based on the responses you have provided, we believe that the proposed Action is consistent with the type of Actions programmatically evaluated by the Service's Kentucky Field Office under the standing analyses that support this determination key. These Actions typically conclude with "no effect" or "may affect - not likely to adversely affect" determinations for the gray bat.

    What is your effect determination for the **gray bat**?

    Note:*IPaC will not provide a concurrence for "no effect" determinations, because there is no statutory requirement to request concurrence from the Service. IPaC will provide concurrence for "May affect – not likely to adversely affect" determinations. If you choose "May affect – likely to adversely affect" or "Unsure," additional coordination with the Service is recommended.*

    1. "No effect"

16. [Hidden Semantic] Does the Action Area intersect the Kentucky AOI of the Virginia big-eared bat?

    Automatically answered
    Yes

17. Will the proposed Action involve activities that occur within 1,000 feet from a cliffline? *A cliffline is a naturally occurring, exposed, and nearly vertical rock structure at least 10 feet tall and 100 feet long.*

    No

18. Based on the responses you have provided, we believe that the proposed Action is consistent with the type of Actions programmatically evaluated by the Service's Kentucky Field Office under the standing analyses that support this determination key. These Actions typically conclude with "no effect" or "may affect - not likely to adversely affect" determinations for the Virginia big-eared bat.

    What is your effect determination for the **Virginia big-eared bat**?

    Note: *IPaC will not provide a concurrence for "no effect" determinations, because there is no statutory requirement to request concurrence from the Service. IPaC will provide concurrence for "May affect – not likely to adversely affect" determinations. If you choose "May affect – likely to adversely affect" or "Unsure," additional coordination with the Service is recommended.*

    2. "May affect - not likely to adversely affect"

19. Will the proposed Action involve a new point source discharge into a stream or change an existing point source discharge (e.g., outfalls; leachate ponds)?

    No

20. Will the proposed Action include any activities that would alter stream flow, such as hydropower energy production, impoundments, intake structures, diversion structures, and/or turbines?

    No

21. Will the proposed Action involve dredging or in-stream gravel mining?

    No

22. Will the proposed Action involve resource extraction (e.g., mining, oil/gas, logging), including exploration activities?

    No

23. Will the proposed Action involve stream impacts (perennial or intermittent) that would require an individual permit under 404 of the Clean Water Act?

    No

24. Will the proposed Action involve activities that would contribute measureable nonpoint source pollution to streams (e.g., sediment, nutrients, etc.)? *See the following EPA webpage for more examples of nonpoint source pollution and activities that can produce it: https://www.epa.gov/nps/basic-information-about-nonpoint-source-nps-pollution*

    No

25. Will the proposed Action involve new or increased use of public recreational OHV trails?

    No

26. Will the proposed Action disturb the channel or bank of a perennial or intermittent stream?

    No

27. Will the proposed Action disturb the channel or bank of an ephemeral stream?

    No

28. Will the proposed Action involve vegetation removal within 200 feet of a perennial stream bank?

    No

29. Will the proposed Action involve excavation or grading, including for the construction or improvement of an access road?

    No

30. [Hidden Semantic] Does the project area intersect the AOI of the snuffbox?

    Automatically answered
    Yes

31. Based on the responses you have provided, we believe that the proposed Action is consistent with the type of Actions programmatically evaluated by the Service's Kentucky Field Office under the standing analyses that support this determination key. These Actions typically conclude with "no effect" or "may affect - not likely to adversely affect" determinations for the snuffbox.

    What determination do you want to make for the **snuffbox**:

    Note: IPaC will not provide a concurrence for "no effect" determinations, because there is no statutory requirement to request concurrence from the Service. IPaC will provide concurrence for "May affect – not likely to adversely affect" determinations. If you choose "May affect – likely to adversely affect" or "Unsure," additional coordination with the Service is recommended.

    1. "No effect"

32. [Hidden Semantic] Does the project area intersect the AOI of the pink mucket (*Lampsilis abrupta*)?

    Automatically answered
    Yes

33. Based on the responses you have provided, we believe that the proposed Action is consistent with the type of Actions programmatically evaluated by the Service's Kentucky Field Office under the standing analyses that support this determination key. These Actions typically conclude with "no effect" or "may affect - not likely to adversely affect" determinations for the pink mucket.

    What is your effect determination for the **pink mucket**:

    Note: IPaC will not provide a concurrence for "no effect" determinations, because there is no statutory requirement to request concurrence from the Service. IPaC will provide concurrence for "May affect – not likely to adversely affect" determinations. If you choose "May affect – likely to adversely affect" or "Unsure," additional coordination with the Service is recommended.

    1. "No effect"

IPAC USER CONTACT INFORMATION

Agency: West Liberty city
Name: Garver LLC
Address: 4300 South J.B Hunt Drive, Suite 240
Address Line 2: Suite 240
City: Rogers
State: AR
Zip: 72758
Email arbiologist@garverusa.com
Phone: 4792874628

LEAD AGENCY CONTACT INFORMATION

Lead Agency: Federal Aviation Administration

You have indicated that your project falls under or receives funding through the following special project authorities:

- BIPARTISAN INFRASTRUCTURE LAW (BIL) (OTHER)

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Kentucky Ecological Services Field Office
J C Watts Federal Building, Room 265
330 West Broadway
Frankfort, KY 40601-8670
Phone: (502) 695-0467 Fax: (502) 695-1024
Email Address: kentuckyes@fws.gov

In Reply Refer To: 05/01/2026 17:44:01 UTC
Project code: 2025-0104398
Project Name: 9I3 Runway 7-25 Obstruction Removal

Federal Nexus: yes
Federal Action Agency (if applicable): Federal Aviation Administration

Subject: Technical assistance for '9I3 Runway 7-25 Obstruction Removal'

Dear Garver LLC:

This letter records your determination using the Information for Planning and Consultation (IPaC) system provided to the U.S. Fish and Wildlife Service (Service) on May 01, 2026, for '9I3 Runway 7-25 Obstruction Removal' (here forward, Project). This project has been assigned Project Code 2025-0104398 and all future correspondence should clearly reference this number. **Please carefully review this letter. Your Endangered Species Act (Act) requirements may not be complete.**

Ensuring Accurate Determinations When Using IPaC

The Service developed the IPaC system and associated species' determination keys in accordance with the Endangered Species Act of 1973 (ESA; 87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.) and based on a standing analysis. All information submitted by the Project proponent into IPaC must accurately represent the full scope and details of the Project.

Failure to accurately represent or implement the Project as detailed in IPaC or the Northern Long-eared Bat and Tricolored Bat Range-wide Determination Key (Dkey), invalidates this letter. ***Answers to certain questions in the DKey commit the project proponent to implementation of conservation measures that must be followed for the ESA determination to remain valid. Note that conservation measures for northern long-eared bat and tricolored bat may differ. If both bat species are present in the action area and the key suggests more conservative measures for one of the species for your project, the Project may need to apply the most conservative measures in order to avoid adverse effects. If unsure which conservation measures should be applied, please contact the appropriate Ecological Services Field Office***

Determination for the Northern Long-Eared Bat and Tricolored Bat

Based upon your IPaC submission and a standing analysis completed by the Service, your project has reached the following effect determination(s):

Species	Listing Status	Determination
Northern Long-eared Bat (*Myotis septentrionalis*)	Endangered	NLAA
Tricolored Bat (*Perimyotis subflavus*)	Proposed Endangered	NLAA

Federal agencies must consult with U.S. Fish and Wildlife Service under section 7(a)(2) of the Endangered Species Act (ESA) when an action *may affect* a listed species. Tricolored bat is proposed for listing as endangered under the ESA, but not yet listed. For actions that may affect a proposed species, agencies cannot consult, but they can *confer* under the authority of section 7(a)(4) of the ESA. Such conferences can follow the procedures for a consultation and be adopted as such if and when the proposed species is listed. Should the tricolored bat be listed, agencies must review projects that are not yet complete, or projects with ongoing effects within the tricolored bat range that previously received a NE or NLAA determination from the key to confirm that the determination is still accurate.

Other Species and Critical Habitat that May be Present in the Action Area

The IPaC-assisted determination key for the northern long-eared bat and tricolored bat does not apply to the following ESA-protected species and/or critical habitat that also may occur in your Action area:

- Eastern Hellbender *Cryptobranchus alleganiensis alleganiensis* Proposed Endangered
- Gray Bat *Myotis grisescens* Endangered
- Indiana Bat *Myotis sodalis* Endangered
- Monarch Butterfly *Danaus plexippus* Proposed Threatened
- Pink Mucket (pearlymussel) *Lampsilis abrupta* Endangered
- Salamander Mussel *Simpsonaias ambigua* Proposed Endangered
- Snuffbox Mussel *Epioblasma triquetra* Endangered
- Virginia Big-eared Bat *Corynorhinus (=Plecotus) townsendii virginianus* Endangered

You may coordinate with our Office to determine whether the Action may cause prohibited take of the animal species listed above. Note that if a new species is listed that may be affected by the identified action before it is complete, additional review is recommended to ensure compliance with the Endangered Species Act.

Next Steps

Consultation with the Service is necessary. The project has a federal nexus (e.g., Federal funds, permit, etc.), but you are not the federal action agency or its designated (in writing) non-federal representative. Therefore, the ESA consultation status is incomplete and no project activities

should occur until consultation between the Service and the Federal action agency (or designated non-federal representative), is completed.

As the federal agency or designated non-federal representative deems appropriate, they should submit their determination of effects to the Service by doing the following.

1. Log into IPaC using an agency email account and click on My Projects, click "Search by record locator" to find this Project using **717-180696639**. (Alternatively, the originator of the project in IPaC can add the agency representative to the project by using the Add Member button on the project home page.)
2. Review the answers to the Northern Long-eared Bat and Tricolored Bat Range-wide Determination Key to ensure that they are accurate.
3. Click on Review/ Finalize to convert the ‘not likely to adversely affect’ technical assistance letter to a concurrence letter. Download the concurrence letter for your files if needed.

If no changes occur with the Project or there are no updates on listed species, no further consultation/coordination for this project is required for the northern long-eared bat. However, the Service recommends that project proponents re-evaluate the Project in IPaC if: 1) the scope, timing, duration, or location of the Project changes (includes any project changes or amendments); 2) new information reveals the Project may impact (positively or negatively) federally listed species or designated critical habitat; or 3) a new species is listed, or critical habitat designated. If any of the above conditions occurs, additional coordination with the Service should take place before project implements any changes which are final or commits additional resources.

If you have any questions regarding this letter or need further assistance, please contact the Kentucky Ecological Services Field Office and reference Project Code 2025-0104398 associated with this Project.

Action Description
You provided to IPaC the following name and description for the subject Action.

1. Name

9I3 Runway 7-25 Obstruction Removal

2. Description

The following description was provided for the project '9I3 Runway 7-25 Obstruction Removal':

> West Liberty Airport (9I3) has identified individual trees as obstructions to the approach surfaces to Runway 7-25. The purpose of the Proposed Action is to remove these obstructions that are penetrating the 20:1 Threshold Siting Surface (TSS) and Part 77 Approach Surface (AS). The Airport needs to remove these obstructions to provide safe approaches for landing aircraft and for compliance with Code of Federal Regulation (CFR) Part 77 airspace regulations. The project includes removal of individual trees have been identified as obstructions, which are located off airport property on privately owned properties. Obstruction removal will include tree felling by hand and left in place or removed, with stumps ground to existing grade.

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@37.91601645,-83.24591495925029,14z



DETERMINATION KEY RESULT

Based on the answers provided, the proposed Action is consistent with a determination of “may affect, but not likely to adversely affect” for a least one species covered by this determination key.

QUALIFICATION INTERVIEW

1. Does the proposed project include, or is it reasonably certain to cause, intentional take of listed bats or any other listed species?

   Note: Intentional take is defined as take that is the intended result of a project. Intentional take could refer to research, direct species management, surveys, and/or studies that include intentional handling/encountering, harassment, collection, or capturing of any individual of a federally listed threatened, endangered or proposed species?

   No

2. Is the action area wholly within Zone 2 of the year-round active area for northern long-eared bat and/or tricolored bat?

   Automatically answered
   No

3. Does the action area intersect Zone 1 of the year-round active area for northern long-eared bat and/or tricolored bat?

   Automatically answered
   No

4. Does any component of the action involve leasing, construction or operation of wind turbines? Answer 'yes' if the activities considered are conducted with the intention of gathering survey information to inform the leasing, construction, or operation of wind turbines.

   No

5. Is the proposed action authorized, permitted, licensed, funded, or being carried out by a Federal agency in whole or in part?

   Note for projects in Pennsylvania: Projects requiring authorization under Section 404 of the Clean Water Act and/or Section 10 of the Rivers and Harbors Act would be considered as having a federal nexus. Since the U.S. Army Corps of Engineers (Corps) has issued the Pennsylvania State Programmatic General Permit (PASPGP), which may be verified by the PA Department of Environmental Protection or certain Conservation Districts, the need to receive a Corps authorization to perform the work under the PASPGP serves as a federal nexus. As such, if proposing to use the PASPGP, you would answer ‘yes’ to this question.

   Yes

6. Is the Federal Highway Administration (FHWA), Federal Railroad Administration (FRA), or Federal Transit Administration (FTA) funding or authorizing the proposed action, in whole or in part?

   No

7. Are you an employee of the federal action agency or have you been officially designated in writing by the agency as its designated non-federal representative for the purposes of Endangered Species Act Section 7 informal consultation per 50 CFR § 402.08?

   Note: This key may be used for federal actions and for non-federal actions to facilitate section 7 consultation and to help determine whether an incidental take permit may be needed, respectively. This question is for information purposes only.

   No

8. Is the lead federal action agency the Environmental Protection Agency (EPA) or Federal Communications Commission (FCC)? Is the Environmental Protection Agency (EPA) or Federal Communications Commission (FCC) funding or authorizing the proposed action, in whole or in part?

   No

9. Is the lead federal action agency the Federal Energy Regulatory Commission (FERC)?

   No

10. [Semantic] Is the action area located within 0.5 miles of a known bat hibernaculum or winter roost? Note: The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your state wildlife agency.

    Automatically answered

    No

11. Does the action area contain any winter roosts or caves (or associated sinkholes, fissures, or other karst features), mines, rocky outcroppings, or tunnels that could provide habitat for hibernating bats?

    No

12. Is the action located in New England (CT, MA, ME, NH, RI, or VT)?

    No

13. Will the action cause effects to a bridge?

    Note: Covered bridges should be considered as bridges in this question.

    No

14. Will the action result in effects to a culvert or tunnel at any time of year?

    No

15. Are trees present within 1000 feet of the action area? **Note:** If there are trees within the action area that are of a sufficient size to be potential roosts for bats answer "Yes". If unsure, additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in the USFWS' Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines.

    Yes

16. Does the action include the intentional exclusion of bats from a building or building-like structure? **Note:** Exclusion is conducted to deny bats' entry or reentry into a building. To be effective and to avoid harming bats, it should be done according to established standards. If your action includes bat exclusion and you are unsure whether northern long-eared bats or tricolored bats are present, answer "Yes." Answer "No" if there are no signs of bat use in the building/structure. If unsure, contact your local Ecological Services Field Office to help assess whether northern long-eared bats or tricolored bats may be present. Contact a Nuisance Wildlife Control Operator (NWCO) for help in how to exclude bats from a structure safely without causing harm to the bats (to find a NWCO certified in bat standards, search the Internet using the search term "National Wildlife Control Operators Association bats"). Also see the White-Nose Syndrome Response Team's guide for bat control in structures.

    No

17. Does the action involve removal, modification, or maintenance of a human-made building-like structure (barn, house, or other building) **known or suspected to contain roosting bats?**

    No

18. Will the action cause construction of one or more new roads open to the public?

    For federal actions, answer 'yes' when the construction or operation of these facilities is either (1) part of the federal action or (2) would not occur but for an action taken by a federal agency (federal permit, funding, etc.).

    No

19. Will the action include or cause any construction or other activity that is reasonably certain to increase average night-time traffic permanently or temporarily on one or more existing roads? **Note:** For federal actions, answer 'yes' when the construction or operation of these facilities is either (1) part of the federal action or (2) would not occur but for an action taken by a federal agency (federal permit, funding, etc.). .

    No

20. Will the action include or cause any construction or other activity that is reasonably certain to increase the number of travel lanes on an existing thoroughfare?

    For federal actions, answer 'yes' when the construction or operation of these facilities is either (1) part of the federal action or (2) would not occur but for an action taken by a federal agency (federal permit, funding, etc.).

    No

21. Will the proposed Action involve the creation of a new water-borne contaminant source (e.g., leachate pond, pits containing chemicals that are not NSF/ANSI 60 compliant)?

    Note: For information regarding NSF/ANSI 60 please visit https://www.nsf.org/knowledge-library/nsf-ansi-standard-60-drinking-water-treatment-chemicals-health-effects

    No

22. Will the proposed action involve the creation of a new point source discharge from a facility other than a water treatment plant or storm water system?

    No

23. Will the proposed action involve blasting or drilling?

    No

24. Will the action involve military training (e.g., smoke operations, obscurant operations, exploding munitions, artillery fire, range use, helicopter or fixed wing aircraft use at night)?

    No

25. Will the proposed action involve the use of herbicides or pesticides (e.g., fungicides, insecticides, or rodenticides)?

    No

26. Will the action include or cause activities that are reasonably certain to cause chronic or intense nighttime noise (above current levels of ambient noise in the area) in suitable summer habitat for the northern long-eared bat or tricolored bat during the active season? Chronic noise is noise that is continuous or occurs repeatedly again and again for a long time. Sources of chronic or intense noise that could cause adverse effects to bats may include, but are not limited to: road traffic; trains; aircraft; industrial activities; gas compressor stations; loud music; crowds; oil and gas extraction; construction; and mining. **Note:** Additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in the USFWS' Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines.

    No

27. Does the action include, or is it reasonably certain to cause, the use of permanent or temporary artificial lighting within 1000 feet of suitable forested northern long-eared bat or tricolored bat roosting habitat? **Note:** Additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in the USFWS' Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines.

    No

28. Will the action include tree cutting or other means of knocking down or bringing down trees, tree topping, or tree trimming?

    Yes

29. Is the project related to the production of coal, including projects that support the mining of coal, as well as the production and/or distribution of energy produced from coal?

    No

30. Will the proposed action occur exclusively in an already established and currently maintained utility right-of-way?

    No

31. Does the action include emergency cutting or trimming of hazard trees in order to remove an imminent threat to human safety or property? See hazard tree note at the bottom of the key for text that will be added to response letters

    Note: A "hazard tree" is a tree that is an immediate threat to lives, public health and safety, or improved property.

    No

32. Does the project intersect with the 0- 9.9% forest density category?

    Automatically answered
    No

33. Does the project intersect with the 10.0- 19.9% forest density category map?

    Automatically answered
    No

34. Does the project intersect with the 20.0- 29.9% forest density category map?

    Automatically answered
    No

35. Does the project intersect with the 30.0- 100% forest density category map?

    Automatically answered
    Yes

36. Will the action cause trees to be cut, knocked down, or otherwise brought down across an area greater than 100 acres in total extent?

    No

37. Will the proposed action result in the use of prescribed fire?

    Note: If the prescribed fire action includes other activities than application of fire (e.g., tree cutting, fire line preparation) please consider impacts from those activities within the previous representative questions in the key. This set of questions only considers impacts from flame and smoke.

    No

38. Does the action area intersect the northern long-eared bat species list area?

    Automatically answered
    Yes

39. [Semantic] Is the action area located within 0.5 miles of radius of an entrance/opening to any known NLEB hibernacula or winter roost? Note: The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your State wildlife agency.

    Automatically answered
    No

40. [Semantic] Is the action area located within 0.25 miles of a culvert that is known to be occupied by northern long-eared or tricolored bats? **Note:** The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your State wildlife agency.

    Automatically answered
    No

41. [Semantic] Is the action area located within 150 feet of a documented northern long-eared bat roost site?

    Note: The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your State wildlife agency.Have you contacted the appropriate agency to determine if your action is within 150 feet of any documented northern long-eared bat roosts?

    Note: A document with links to Natural Heritage Inventory databases and other state-specific sources of information on the locations of northern long-eared bat roosts is available here. Location information for northern long-eared bat roosts is generally kept in state natural heritage inventory databases – the availability of this data varies by state. Many states provide online access to their data, either directly by providing maps or by providing the opportunity to make a data request. In some cases, to protect those resources, access to the information may be limited.

    Automatically answered
    No

42. Is suitable summer habitat for the northern long-eared bat present within 1000 feet of project activities? If unsure, answer "Yes." **Note:** Additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in the USFWS' Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines

    Yes

43. Has a presence/probable absence summer bat survey targeting the northern long-eared bat following the Service's Range-wide Indiana Bat and Northern Long-Eared Bat Survey Guidelines been conducted within the project area?

    No

44. Are any of the trees proposed for cutting or other means of knocking down, bringing down, topping, or trimming suitable for northern long-eared bat roosting (i.e., live trees and/or snags ≥3 inches dbh that have exfoliating bark, cracks, crevices, and/or cavities)? **Note:** Additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in the USFWS' Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines.

    Yes

45. Will any tree cutting/trimming or other knocking or bringing down of trees occur during the **Summer Occupancy season** for northern long-eared bats in the action area? **Note:** Bat activity periods for your state can be found in Appendix 2 of the Service's Northern long-eared Bat and Tricolored Bat Voluntary Environmental Review Process for Development Projects.

    No

46. Does the action area intersect the tricolored bat species list area?

    Automatically answered
    Yes

47. Is the action area located within 0.5-mile of radius of an entrance/opening to any known tricolored bat hibernacula or winter roost?

    Note: The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your state wildlife agency.

    Automatically answered
    No

48. [Semantic] Is the action area located within 0.25 miles of a culvert that is known to be occupied by northern long-eared or tricolored bats? **Note:** The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your State wildlife agency.

    Automatically answered
    No

49. Has a presence/probable absence bat survey targeting the tricolored bat and following the Service's Range-wide Indiana Bat and Northern Long-Eared Bat Survey Guidelines been conducted within the project area?

    No

50. Is suitable summer habitat for the tricolored bat present within 1000 feet of project activities? (If unsure, answer ""Yes."") **Note:** If there are trees within the action area that may provide potential roosts for tricolored bats (e.g., clusters of leaves in live and dead deciduous trees, Spanish moss (*Tillandsia usneoides*), clusters of dead pine needles of large live pines) answer ""Yes."" For a complete definition of suitable summer habitat for the tricolored bat, please see the Service's Range-wide Indiana Bat and Northern long-eared Bat Survey Guidelines.

    Yes

51. Do any of the trees proposed for cutting or other means of knocking down, bringing down, topping, or trimming provide potential roosts for tricolored bats (e.g., clusters of leaves in live and dead deciduous trees, Spanish moss (*Tillandsia usneoides*), clusters of dead pine needles of large live pine trees)? **Note:** Additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in the USFWS' Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines.

    Yes

52. Will any tree cutting/trimming or other knocking or bringing down of trees be conducted during the Pup Season for tricolored bat? **Note:** Bat activity periods for your state can be found in Appendix 2 of the Service's Northern Long-eared Bat and Tricolored Bat Voluntary Environmental Review Process for Developmental Projects.

    No

53. Do you have any documents that you want to include with this submission?

    No

PROJECT QUESTIONNAIRE

Enter the extent of the action area (in acres) from which trees will be removed - round up to the nearest tenth of an acre. For this question, include the entire area where tree removal will take place, even if some live or dead trees will be left standing.

.3

IPAC USER CONTACT INFORMATION

Agency: West Liberty city
Name: Garver LLC
Address: 4300 South J.B Hunt Drive, Suite 240
Address Line 2: Suite 240
City: Rogers
State: AR
Zip: 72758
Email arbiologist@garverusa.com
Phone: 4792874628

LEAD AGENCY CONTACT INFORMATION

Lead Agency: Federal Aviation Administration

You have indicated that your project falls under or receives funding through the following special project authorities:

- BIPARTISAN INFRASTRUCTURE LAW (BIL) (OTHER)

Andy Beshear
Governor

Energy and Environment Cabinet
Office of Kentucky Nature Preserves
300 Sower Boulevard
Frankfort, Kentucky 40601
Telephone: 502-782-7828
EEC.KYBAT@ky.gov

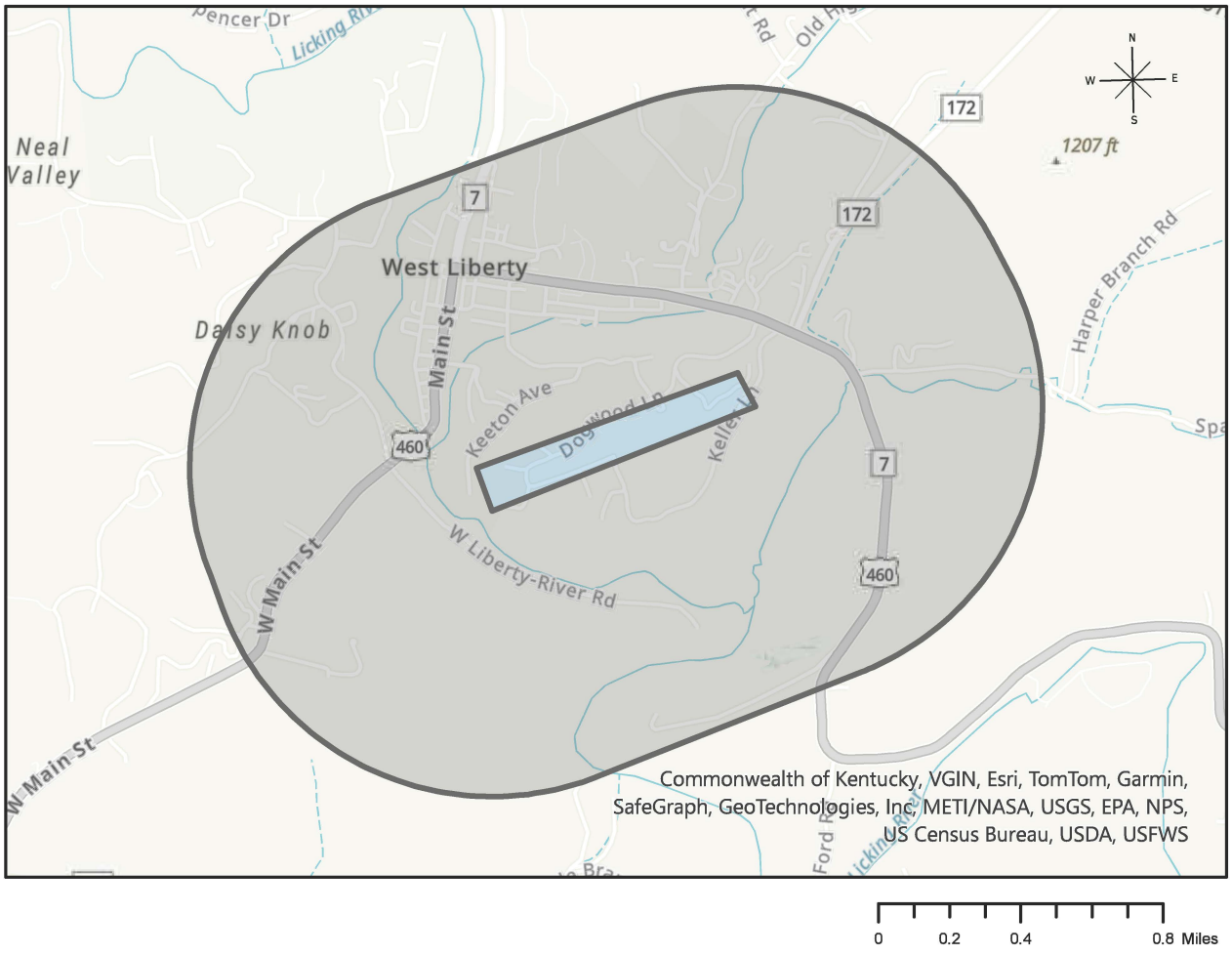
Rebecca W. Goodman
Secretary

Zack Couch
Executive Director

Requested on Friday, August 15, 2025 by *Ryan Mountain, Garver, LLC*

Re: Kentucky Biological Assessment Data Request 250815R01
West Liberty Airport - 9I3 Obstruction Removal
Timber Harvest and Vegetation Management, 1 mile buffer.
MORGAN County, Kentucky

This letter is in response to your data request for the project referenced above. We have reviewed our Natural Heritage Program Database to determine if any of the endangered, threatened, or special concern plants, animals, features, or exemplary natural communities monitored by the Office of Kentucky Nature Preserves are noted within your submitted project area.



Andy Beshear
Governor

Energy and Environment Cabinet
Office of Kentucky Nature Preserves
300 Sower Boulevard
Frankfort, Kentucky 40601
Telephone: 502-782-7828
EEC.KYBAT@ky.gov

Rebecca W. Goodman
Secretary

Zack Couch
Executive Director

Thank you for using the Office of Kentucky Nature Preserves' Biological Assessment Tool.

This report provides site-specific biological data for the proposed project area, offering documented occurrences of rare, threatened, and endangered species. Unlike other tools which may model potential species presence, this tool delivers verified field data collected by biologists, ensuring an accurate understanding of site conditions. Some regulatory processes request this information for project siting, permitting, and conservation planning. Understanding the presence of endangered, threatened, or special concern plants, animals or exemplary natural communities may help avoid delays, mitigate risks, and support compliance with environmental guidelines.

Key Findings included in the report:

A - Occurrences which intersect the project area
B - Occurrences which intersect the buffer around the project area
C - References and Recommendations relevant to occurrences near to or within the project area

We would like to take this opportunity to remind you of the terms of the data request license, which you agreed upon in order to submit your request. Data and data products received from the Office of Kentucky Nature Preserves, including any portion thereof, may not be reproduced in any form or by any means without the express written authorization of the Office of Kentucky Nature Preserves. These products are provided on a temporary basis for the express project (described above) of the requester, and may not be redistributed, resold or copied without the written permission of the Office of Kentucky Nature Preserves.

Please note that the quantity and quality of data are dependent on the research and observations of many individuals and organizations. In most cases, this information is not the result of comprehensive or site-specific field surveys; many natural areas in Kentucky have never been thoroughly surveyed and new plants and animals are still being discovered. For these reasons, we cannot provide a definitive statement on the presence, absence, or condition of biological elements in any part of Kentucky. These reports summarize the existing information known to the Kentucky Natural Heritage Database at the time of the request. They should never be regarded as final statements on the occurrences being considered, nor should they be substituted for on-site surveys required for environmental assessments. Please note that certain sensitive occurrences may be listed in this table but are not represented in the accompanying map.

If you have any questions, or if we can be of further assistance, please do not hesitate to contact our office by email at EEC.KYBAT@ky.gov.

Alexis R. Sheehan
Database Administrator
Office of Kentucky Nature Preserves

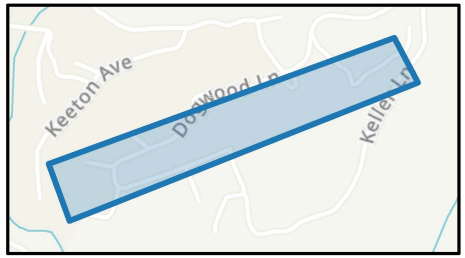
Sydnie Hansen
GIS Analyst
Office of Kentucky Nature Preserves

An Equal Opportunity Employer M/F/D

A. Project Area - Occurrence Report

This section details occurrences that have been documented within the project footprint through direct field surveys. Presence is based on confirmed biological observations. The table below includes the species' status at state and federal levels, as well as the dates each occurrence was last observed. Please review Precision, as it is indicative of the location uncertainty of the individual records.

Botanical
Ecological
Zoological



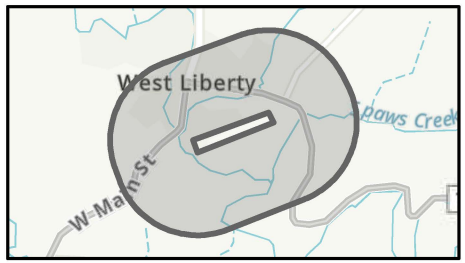
ID	Classification	Scientific Name	Common Name	Precision	Fed. Status	State Status	G Rank	S Rank	SWAP	Last Obs. Date	Habitat	Location
6382	*Mammals*	*Spilogale putorius*	**Eastern Spotted Skunk**	*Cnty.*		*Special Concern*	*G4*	*S2S3*	*Yes*	*1993-pre*		Morgan Co.

Map Credits: Commonwealth of Kentucky, VGIN, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS

B. Buffer Area - Occurrence Report

This section details occurrences recorded within the project footprint, as well as the designated buffer area surrounding the project site. While these species are not directly within the project footprint, their proximity may influence project planning due to habitat connectivity or regulatory considerations.

Botanical
Ecological
Zoological



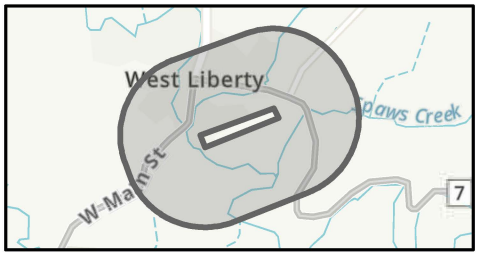
ID	Classification	Scientific Name	Common Name	Precision	Fed. Status	State Status	G Rank	S Rank	SWAP	Last Obs. Date	Habitat	Location
5169	*Fishes*	*Noturus stigmosus*	**Northern Madtom**	*Gen.*		*Special Concern*	*G3*	*S2S3*	*Yes*	*1959-06-12*		*Licking River, near West Liberty at Moores Landing.*
6382	*Mammals*	*Spilogale putorius*	**Eastern Spotted Skunk**	*Cnty.*		*Special Concern*	*G4*	*S2S3*	*Yes*	*1993-pre*		*Morgan Co.*
10283	*Vascular Plants*	*Trifolium reflexum*	**Buffalo Clover**	*Gen.*		*Endangered*	*G3G4*	*S1S2*	*Yes*	*1845*	*Prairies and disturbed openings either associated with forests or opportunistically in fields or well-drained sites.*	*LICKING RIVER.*

Map Credits: Commonwealth of Kentucky, VGIN, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA, USFWS

C. References and Recommendations (1 of 9)

OKNP references the following references and recommendations regarding this project's potential impacts to natural resources within or surrounding the project area. These recommendations are based on state and federal conservation guidelines and may help proactively address potential constraints. Please contact the applicable office should you have further questions with regard to these references and recommendations related to the project area.

Botanical
Ecological
Zoological



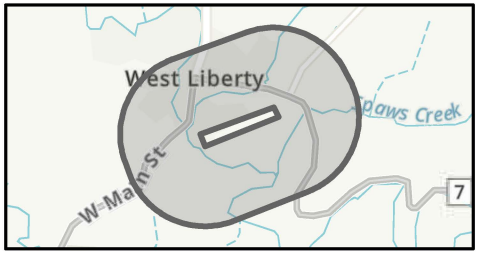
Per U.S. Fish and Wildlife Service, in-channel activities near this project may directly or indirectly impact mussel species that may be present in the nearby river system. Even upland disturbances can degrade habitats by increasing sedimentation or introducing pollutants. To minimize these impacts, projects should utilize Best Management Practices to minimize erosion, limit vegetation removal, revegetate disturbed areas with native vegetation, use bioengineering techniques to restore disturbance to stream banks, install upland sediment basins to minimize sediment input, install detention structures to manage stormwater runoff, and minimize the addition of impervious surfaces in the watershed.
This project area overlaps with one or more wetlands recorded in the NWI. Impacts to NWI wetlands and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes. Visit https://www.fws.gov/program/national-wetlands-inventory
The proposed project area overlaps with the species range for Cryptobranchus alleganiensis alleganiensis, Eastern Hellbender. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Aneides aeneus, Green Salamander. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Desmognathus fuscus, Northern Dusky Salamander. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Desmognathus ochrophaeus, Allegheny Mountain Dusky Salamander. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Podilymbus podiceps, Pied-billed Grebe. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Podiceps auritus, Horned Grebe. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Botaurus lentiginosus, American Bittern. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Butorides virescens, Green Heron. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Nycticorax nycticorax, Black-crowned Night-heron. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Anas rubripes, American Black Duck. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.

Map Credits: Commonwealth of Kentucky, VGIN, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA, USFWS

C. References and Recommendations (2 of 9)

OKNP references the following references and recommendations regarding this project's potential impacts to natural resources within or surrounding the project area. These recommendations are based on state and federal conservation guidelines and may help proactively address potential constraints. Please contact the applicable office should you have further questions with regard to these references and recommendations related to the project area.

Botanical
Ecological
Zoological



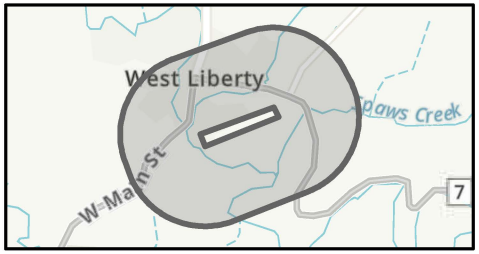
The proposed project area overlaps with the species range for Aythya marila, Greater Scaup. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Aythya affinis, Lesser Scaup. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Lophodytes cucullatus, Hooded Merganser. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Pandion haliaetus, Osprey. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Haliaeetus leucocephalus, Bald Eagle. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Circus hudsonius, Northern Harrier. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Accipiter striatus, Sharp-shinned Hawk. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Falco sparverius, American Kestrel. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Falco peregrinus, Peregrine Falcon. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Bonasa umbellus, Ruffed Grouse. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Colinus virginianus, Northern Bobwhite. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Tringa flavipes, Lesser Yellowlegs. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Tringa solitaria, Solitary Sandpiper. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Actitis macularius, Spotted Sandpiper. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.

Map Credits: Commonwealth of Kentucky, VGIN, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA, USFWS

C. References and Recommendations (3 of 9)

OKNP references the following references and recommendations regarding this project's potential impacts to natural resources within or surrounding the project area. These recommendations are based on state and federal conservation guidelines and may help proactively address potential constraints. Please contact the applicable office should you have further questions with regard to these references and recommendations related to the project area.

Botanical
Ecological
Zoological



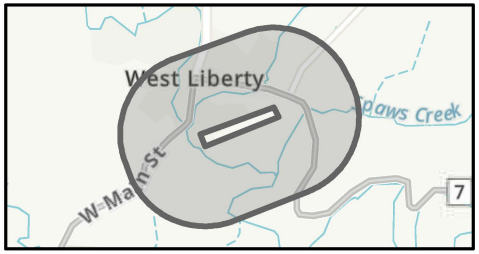
The proposed project area overlaps with the species range for Calidris pusilla, Semipalmated Sandpiper. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Gallinago delicata, Wilson's Snipe. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Scolopax minor, American Woodcock. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Chlidonias niger, Black Tern. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Coccyzus americanus, Yellow-billed Cuckoo. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Asio flammeus, Short-eared Owl. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Antrostomus vociferus, Whip-poor-will. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Melanerpes erythrocephalus, Red-headed Woodpecker. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Empidonax traillii, Willow Flycatcher. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Empidonax minimus, Least Flycatcher. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Riparia riparia, Bank Swallow. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Corvus corax, Common Raven. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Cistothorus stellaris, Sedge Wren. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.

Map Credits: Commonwealth of Kentucky, VGIN, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA, USFWS

C. References and Recommendations (4 of 9)

OKNP references the following references and recommendations regarding this project's potential impacts to natural resources within or surrounding the project area. These recommendations are based on state and federal conservation guidelines and may help proactively address potential constraints. Please contact the applicable office should you have further questions with regard to these references and recommendations related to the project area.

Botanical
Ecological
Zoological



The proposed project area overlaps with the species range for Hylocichla mustelina, Wood Thrush. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Vermivora cyanoptera, Blue-winged Warbler. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Vermivora chrysoptera, Golden-winged Warbler. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Setophaga tigrina, Cape May Warbler. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Setophaga virens, Black-throated Green Warbler. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Setophaga discolor, Prairie Warbler. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Setophaga striata, Blackpoll Warbler. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Setophaga cerulea, Cerulean Warbler. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Protonotaria citrea, Prothonotary Warbler. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Limnothlypis swainsonii, Swainson's Warbler. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Parkesia motacilla, Louisiana Waterthrush. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Geothlypis formosa, Kentucky Warbler. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.

Map Credits: Commonwealth of Kentucky, VGIN, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA, USFWS

C. References and Recommendations (5 of 9)

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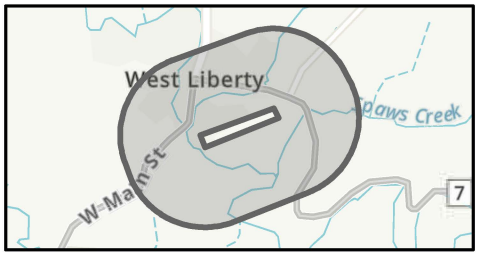

The proposed project area overlaps with the species range for Cardellina canadensis, Canada Warbler. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Spiza americana, Dickcissel. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Spizella pusilla, Field Sparrow. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Passerculus sandwichensis, Savannah Sparrow. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Ammodramus savannarum, Grasshopper Sparrow. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Centronyx henslowii, Henslow's Sparrow. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Dolichonyx oryzivorus, Bobolink. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Sturnella magna, Eastern Meadowlark. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Euphagus carolinus, Rusty Blackbird. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Lethenteron appendix, American Brook Lamprey. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Polyodon spathula, Paddlefish. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Macrhybopsis hyostoma, Shoal Chub. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Myotis lucifugus, Little Brown Bat. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.

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C. References and Recommendations (6 of 9)

OKNP references the following references and recommendations regarding this project's potential impacts to natural resources within or surrounding the project area. These recommendations are based on state and federal conservation guidelines and may help proactively address potential constraints. Please contact the applicable office should you have further questions with regard to these references and recommendations related to the project area.

Botanical
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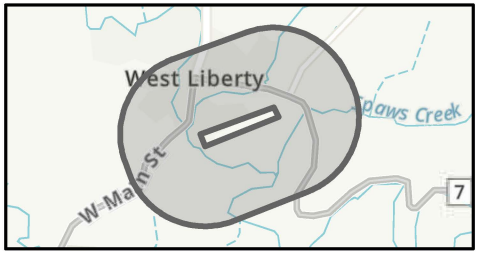

The proposed project area overlaps with the species range for Myotis grisescens, Gray Myotis. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Myotis sodalis, Indiana Bat. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Myotis leibii, Eastern Small-footed Myotis. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Myotis septentrionalis, Northern Long-Eared Bat. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Perimyotis subflavus, Tricolored Bat. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Corynorhinus townsendii virginianus, Virginia Big-eared Bat. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Corynorhinus rafinesquii, Rafinesque's Big-eared Bat. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Sylvilagus obscurus, Appalachian Cottontail. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Neotoma magister, Allegheny Woodrat. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Spilogale putorius, Eastern Spotted Skunk. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Crotalus horridus, Timber Rattlesnake. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Cambarus hazardi, Brawny Crayfish. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Danaus plexippus plexippus, Monarch. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.

Map Credits: Commonwealth of Kentucky, VGIN, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA, USFWS

C. References and Recommendations (7 of 9)

OKNP references the following references and recommendations regarding this project's potential impacts to natural resources within or surrounding the project area. These recommendations are based on state and federal conservation guidelines and may help proactively address potential constraints. Please contact the applicable office should you have further questions with regard to these references and recommendations related to the project area.

Botanical
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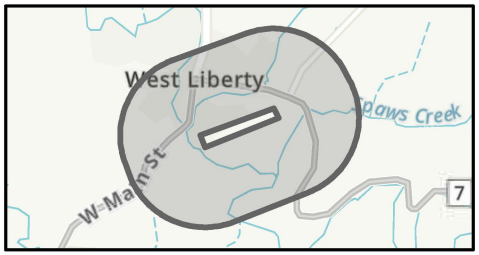

The proposed project area overlaps with the species range for Alasmidonta marginata, Elktoe. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Alasmidonta viridis, Slippershell Mussel. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Anodontoides ferussacianus, Cylindrical Papershell. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Cyprogenia stegaria, Fanshell. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Ellipsaria lineolata, Butterfly. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Elliptio crassidens, Elephantear. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Epioblasma obliquata, Catspaw. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Epioblasma rangiana, Northern Riffleshell. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Fusconaia subrotunda, Longsolid. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Lampsilis abrupta, Pink Mucket. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Lampsilis ovata, Pocketbook. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Leptodea leptodon, Scaleshell. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Ligumia recta, Black Sandshell. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.

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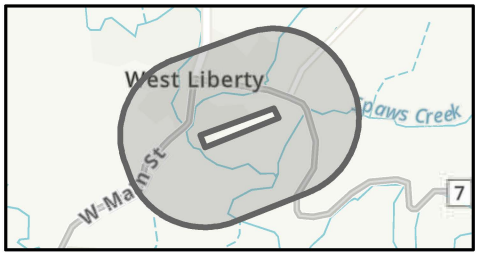

The proposed project area overlaps with the species range for Obovaria subrotunda, Round Hickorynut. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Plethobasus cooperianus, Orangefoot Pimpleback. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Plethobasus cyphyus, Sheepnose. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Pleurobema clava, Clubshell. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Pleurobema cordatum, Ohio Pigtoe. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Pleurobema plenum, Rough Pigtoe. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Pleurobema rubrum, Pyramid Pigtoe. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Theliderma cylindrica, Rabbitsfoot. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Quadrula fragosa, Winged Mapleleaf. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Simpsonaias ambigua, Salamander Mussel. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Toxolasma lividum, Purple Lilliput. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Paetulunio fabalis, Rayed Bean. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.
The proposed project area overlaps with the species range for Leaunio lienosus, Little Spectaclecase. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.

Map Credits: Commonwealth of Kentucky, VGIN, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA, USFWS

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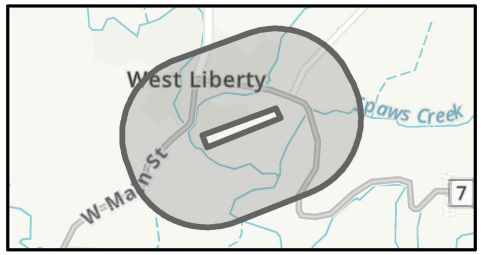


The proposed project area overlaps with the species range for Thaspium pinnatifidum, Cutleaf Meadow-parsnip. This species is noted as a Species of Greatest Conservation Need in Kentucky's State Wildlife Action Plan. Review the Action Plan at https://app.fw.ky.gov/kyswap/ for information on possible management, research and habitat restoration efforts.

Map Credits: Commonwealth of Kentucky, VGIN, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA, USFWS

Thank you for using the Office of Kentucky Nature Preserves Biological Assessment Tool.

OKNP's species dataset relies on continuous monitoring and surveying for species of concern throughout the state. Any records of species of concern found within this project area would greatly benefit the quality and comprehensiveness of the statewide dataset for rare, threatened and endangered species. If you would like to contribute any additional species information, please do not hesitate to contact our office by email at EEC.KYBAT@ky.gov or by phone at 502-782-7828.

Quick Key

For a full report key, visit naturepreserves.org

Global Rank (GRANK) - Estimate of species abundance on a global scale

GX	Presumed extinct
GH	Possibly extinct; Missing
G1	Extremely Rare
G2	Rare
G3	Uncommon
G4	Common
G5	Very Common
GNR	Not ranked
GU	Unrankable due to lack of information
?	Indicates Uncertainty
T #	Appended for infraspecific taxa
Q	Indicates Questionable

State Rank (SRANK) - Estimate of species abundance in Kentucky

SX	Presumed extirpated
SH	Possibly extirpated
S2	Rare
S3	Uncommon
S4	Many Occurrences
S5	Very Common
SNR	Not ranked
SU	Unrankable due to lack of information
SNA	Not Applicable
?	Indicates Uncertainty
B	Indicates breeding population
N	Indicates non-breeding population

Precision - The precision of a record

Sec.	Seconds; Can be accurately mapped within a 3-second radius (approximately 100 ft)
Min.	Minutes; Can be mapped within a 1-minute radius (approximately 1.5 miles)
Gen.	General; Only known to a place name (within about 5 miles)
Cnty.	County; Only known to the county
Quad.	Quad; Only known to the county

TEAM KENTUCKY®

ENERGY AND ENVIRONMENT CABINET

OFFICE OF KENTUCKY NATURE PRESERVES

KY Office of Kentucky Nature Preserves

Rare Plant Observation Form

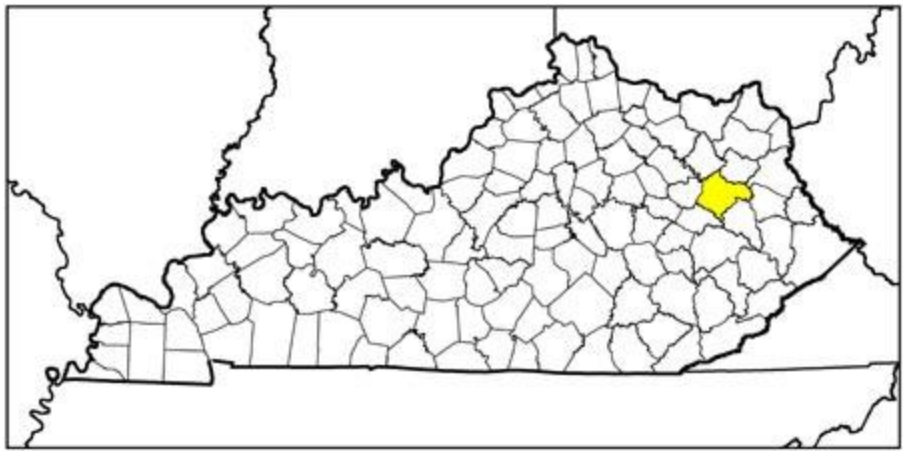
Additional Resources:

U.S. Fish & Wildlife Service ENDANGERED SPECIES PROGRAM

NatureServe Explorer

UNIVERSITY OF TENNESSEE HERBARIUM

Search Results : Morgan County



Acer spicatum - Mountain Maple
Chrysosplenium americanum - American Golden-saxifrage
Circaea alpina - Small Enchanter's Nightshade
Cypripedium parviflorum - Small Yellow Lady's-slipper
Juglans cinerea - White Walnut
Lespedeza stuevei - Tall Bush-clover
Polytrichum pallidisetum - A Hair Cap Moss
Thaspium pinnatifidum - Cutleaf Meadow-parsnip

Note: To print pages from this site change Page Setup to Landscape
Data Last Updated: November 2018

Office of Kentucky Nature Preserves
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Frankfort,KY 40601
Phone: (502) 573-2886
Email: naturepreserves@ky.gov



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KY - Biological Assessment Tool

Help Document Standard Occurrence Report Key



600ft

-83.232 37.919 Degrees

Layer List

Office of Kentucky Nature Preserves Public Lands

- ON Kentucky State Nature Preserves
- ON Kentucky Heritage Land Conservation Fund
- ON State Natural reas
- ON OKNP ild River Corridors

Other Public Lands

Reference Layers

Water Resources

Imagery/ Basemap

U.S. Department
of Transportation
**Federal Aviation
Administration**

Memphis Airports District Office
2600 Thousand Oaks Blvd., Ste. 2250
Memphis, TN 38118

Phone (901) 322-8180

March 3, 2026

Kentucky Ecological Services Field Office
U.S Fish and Wildlife Service
JC Watts Federal Building, Room 265
330 West Broadway
Frankfort, Kentucky 40601-8670
#502-695-0468 (ext 46115); KentuckyES@fws.gov

Re: 9I3 Runway 7-25 Obstruction Removal
West Liberty Airport (9I3), West Liberty, Kentucky
USFWS IPaC Consultation Code: 2025-0104398

Request for Concurrence and Finalization of Section 7 Consultation

To Whom It May Concern:

In accordance with Section 7 of the Endangered Species Act (ESA), the Federal Aviation Administration (FAA) is requesting U.S. Fish and Wildlife Service (USFWS) concurrence that the FAA's action of authorizing the West Liberty-Morgan County Airport Board (sponsor) to remove vegetative obstructions to air navigation at the West Liberty Airport (Airport), West Liberty, KY. On-site surveys support a biological determination of no effect determination for the Gray Bat, Pink Mucket, and Snuffbox Mussel, and a may affect, not likely to adversely affect determination for the Northern Long-eared Bat, Indiana bat, and Virginia Big-eared Bat resulting from work related to the West Liberty obstruction removal project. The Proposed Project would not jeopardize the continued existence of the Eastern Hellbender, Salamander Mussel, and Monarch Butterfly and Tricolor Bat. Our biological evaluation is provided below, including a project description, identification of the study areas, and a discussion of potential effects on ESA-listed and federally protected species.

Proposed Project (Obstruction Removal)

The purpose of the Proposed Action is to remove these obstructions that are penetrating the 20:1 Threshold Siting Surface (TSS) and Part 77 Approach Surface (AS) as shown in attached Layout Plan (Figure 1). The Airport needs to remove these obstructions to provide safe approaches for landing aircraft and for compliance with Code of Federal Regulation (CFR) Part 77 airspace regulations. Tree cutting will be by hand with chainsaws and stumps will be ground to existing grade. Lights will be affixed to the top of utility structures that cannot be removed. The proposed project area is shown on the attached maps, and obstruction removal will be completed between February 1, 2027 and March 30, 2027.

Study Areas and Habitat Overview

A limited site investigation of the study area was conducted on August 7, 2025, and included areas where tree removal may occur (see attached Layout Plan). This habitat assessment did not include official surveys for or reveal evidence of federally listed species during the site investigation.

The study area, where trees are proposed for removal, is located within private and airport owned parcels and contains steep wooded slopes, residential yards, and other maintained grass areas. The approximately 9-acre study area (split between the Runway 7 end and Runway 25 end as shown in the attached figures) consists of 3.5 acres of trees with the remainder as grass areas and built infrastructure including buildings and roadways. Observed vegetation included white oak (Quercus alba), tulip poplar (Liriodendron tulipifera), dogwood (Cornus species), hornbeam (Carpinus caroliniana), sugar maple (Acer saccharum), and Christmas fern (Polystichum acrostichoides). Three homes, three outbuildings, and one business is in the study area. No impacts will occur on these structures.

Onsite aquatic resources were assessed and no wetlands and one ephemeral to intermittent stream reach (other waters, or OW) were identified within the study area (Figure 2). At its upper reaches, OW 1 was ephemeral in nature and exhibited shallow Ordinary High-Water Marks characterized by lack of vegetation and due to flashy flows. It is not mapped by USGS; however, it showed slight evidence of sediment sorting with lack of bank vegetation at the toe of slope of the channel suggesting it transitions from ephemeral (upstream) to intermittent (downstream) within the Runway 7 end project study area.

Refer to Table 1 for federally listed species, habitat requirements, and effects determinations identified for this project. Figure 2 depicts the study area and potential habitat present.

ESA-Listed and Federally Protected Species

Table 1. Federally Listed Species and Habitat Requirements

Species/Status	Habitat Requirements	Suitable Habitat within Direct Study Area (SA)	Preliminary Effect Determination
Gray Bat (*Myotis grisescens*) Endangered	The gray bat occurs in limestone karst areas and primarily uses caves throughout the year, although they move from one cave to another seasonally. Smaller colonies also occasionally roost under bridge structures.	No caves, mines, or tunnels are within the study area.	No Effect
Indiana Bat (*Myotis sodalis*) Endangered	The Indiana Bat hibernates in cool caves and mines in the winter and wooded areas in the spring and summer. During summer, colonies are found behind slabs of exfoliating bark of dead trees, often in bottomland or floodplain habitats, but also in upland situations.	Suitable habitat is present within the study area. Trees to be removed are mature and may provide suitable summer roosting habitat.	May Affect, Not Likely to Adversely Affect
Northern Long-eared Bat (*Myotis septentrionalis*) Endangered	In winter, northern long-eared bats use caves, mine portals, abandoned tunnels, protected sites along cliff lines and similar situations that afford protection from cold. During the summer they roost singly or in colonies underneath bark, in cavities, or in crevices of both live and dead trees.	Rock bluffs are within the project area. Trees to be removed are mature and may provide suitable summer roosting habitat.	May Affect, Not Likely to Adversely Affect
Tricolored Bat (*Perimyotis subflavus*) Proposed Endangered	In winter, Tricolored Bats hibernate in caves, mine portals, and man-made structures such as box culverts. During the summer they prefer to roost in the clumps of dead leaves of oak trees within complex oak forests greater than 50 years old. Less commonly, they will roost in clumps of dead pine needles attached to living trees. They commonly forage along riparian corridors. Maternity colonies also may utilize human-made structures or tree cavities; sometimes these are in open sites that would not be tolerated by most other bats.	No caves were observed within or near the project site. Forest with mature trees do exist in the study area while riparian corridors do adjacent to the study area.	Not likely to jeopardize the continued existence of the species

Species/Status	Habitat Requirements	Suitable Habitat within Direct Study Area (SA)	Preliminary Effect Determination
Virginia Big-eared Bat (*Corynorhinus [=Plecotus] townsendii virginianus*) Endangered	Virginia big-eared bats roost in caves all year long and forage in nearby woodland and pasture habitats.	No caves are located in the study area.	May Affect, Not Likely to Adversely Affect
Eastern Hellbender *(Cryptobranchus alleganiensis alleganiensis)* Proposed Endangered	Found in cool, clear, fast-flowing streams and rivers with low sedimentation and pollution. Adult individuals require large, flat rocks for shelter and nesting. Juveniles require gravel and cobble substrates for cover and to support prey populations.	No suitable habitat is located within the study area or will be affected by the Proposed Action.	Not likely to jeopardize the continued existence of the species
Pink Mucket *(Lampsilis abrupta)* Endangered	The pink mucket inhabits large and fast moving rivers with gravel and cobble substrates.	No suitable habitat is located within the study area or will be affected by the Proposed Action.	No Effect
Salamander Mussel (*Simpsonaias ambigua)* Proposed Endangered	The salamander mussel inhabits fast moving rivers under large flat rocks,	No suitable habitat is located within the study area or will be affected by the Proposed Action.	Not likely to jeopardize the continued existence of the species
Snuffbox Mussel (*Epioblasma triquetra*) Endangered	The snuffbox mussel inhabits small to large rivers within riffles. They also inhabit banks of lakes with wave action.	The ephemeral to intermittent stream in the study area does not have the hydrologic regime to support the snuffbox mussel.	No Effect
Monarch Butterfly (*Danaus plexippus*) Proposed Threatened	Monarch butterflies require the presence of milkweed (*Asclepias sp.*), flowering or potentially flowering nectar plants (defined as forbs that can provide nectar for monarchs at some point in the growing season), and additional native habitat such as meadows, prairies, and grasslands.	Potentially suitable habitat (flowering nectar plants) is possible within the study area. No milkweed species were observed within the study area.	Not likely to jeopardize the continued existence of the species

The photographs in Attachment C show the typical habitats observed within the study area.

Based on the assessment above, the FAA has determined a determination of "May Affect, Not Likely to Adversely Affect" for the Northern Long-eared Bat, Indiana bat, and Virginia Big-eared Bat because of the Proposed Project. The FAA appreciates your review of the Proposed Project and requests your review and concurrence with our effects determinations for these species within 30 days of receiving this letter. If you have any questions, please contact Lopa Naik via email at lopa.naik@faa.gov.

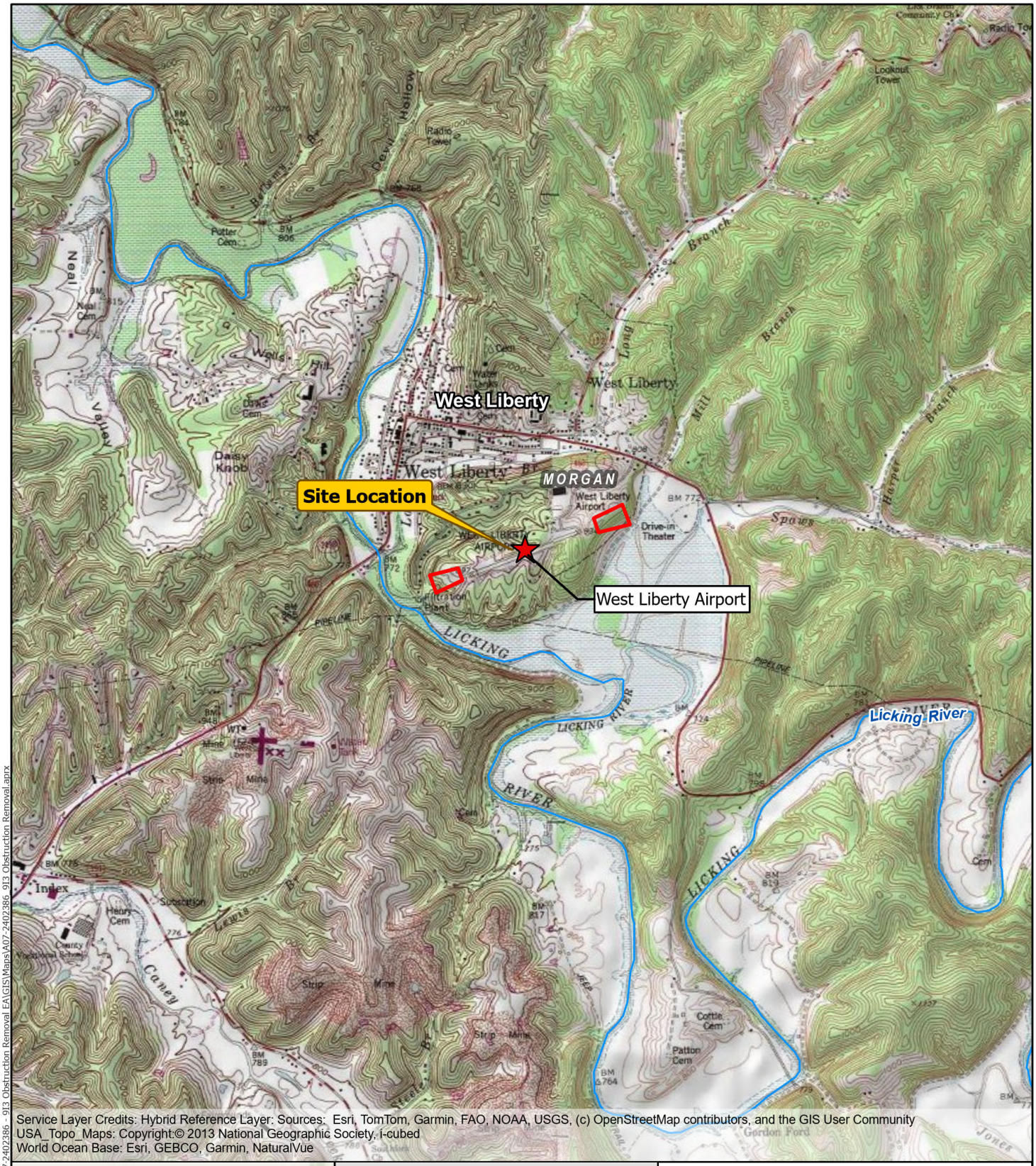
Sincerely,

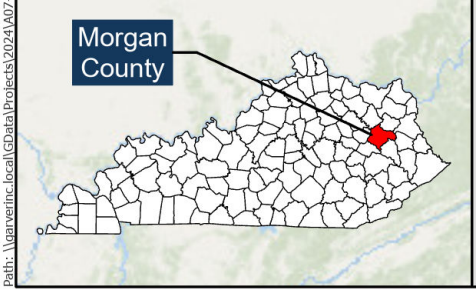
lopa naik

Lopa Naik
Environmental Protection Specialist
Memphis ADO

Enclosures:

Figure 1: Site Location Map
Figure 2: Habitat Overview Map Layout Plan
Attachment A – USFWS IPaC Species List
Attachment B – USFWS Technical Assistance Letters
Attachment C – Photographs of typical habitats observed within the study area





Site Location

APE/Direct Study Area

APPENDIX A - SITE LOCATION MAP

West Liberty Airport (9I3)
Runway 7-25
Obstruction Removal

N

0 0.25 0.5 1

Miles

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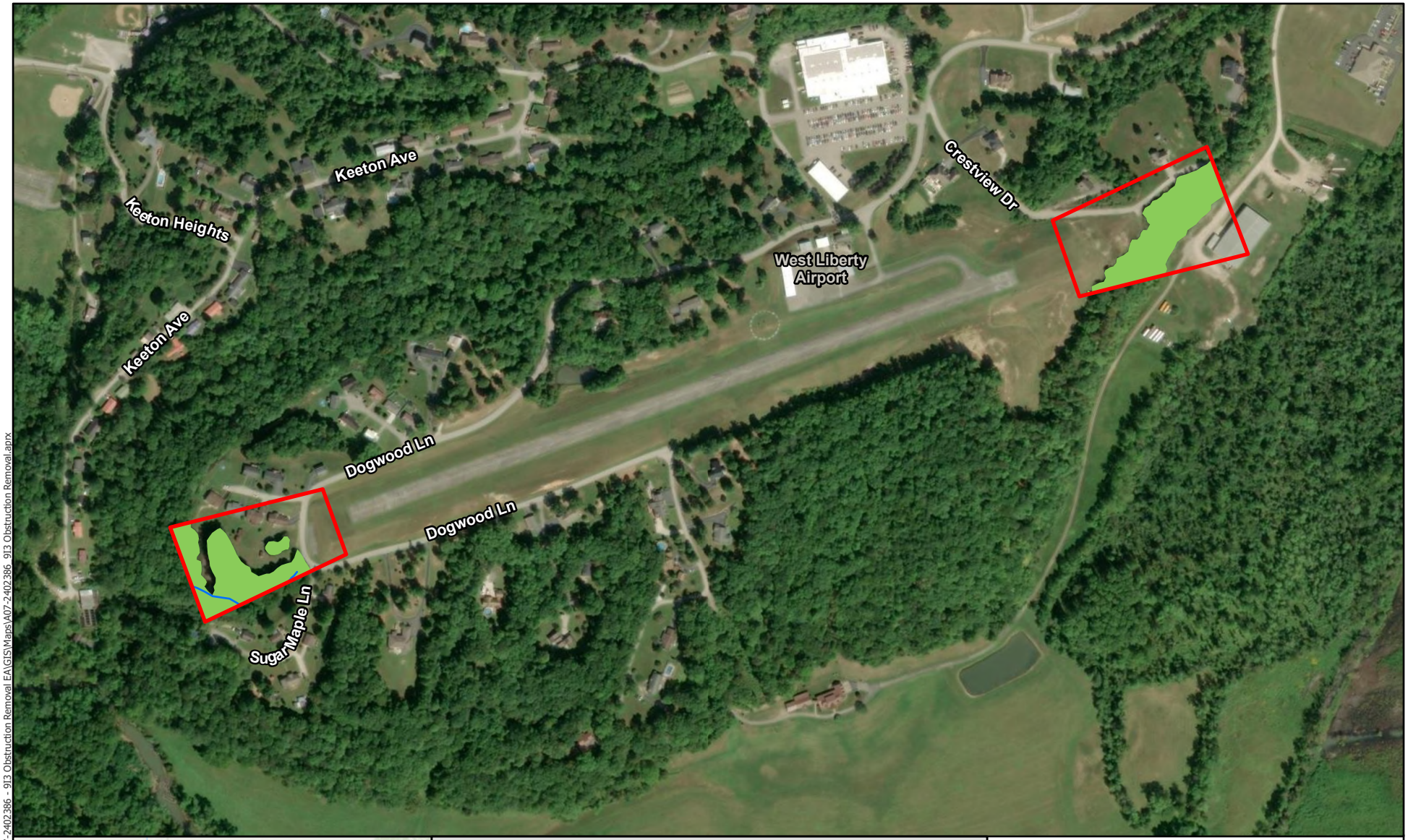

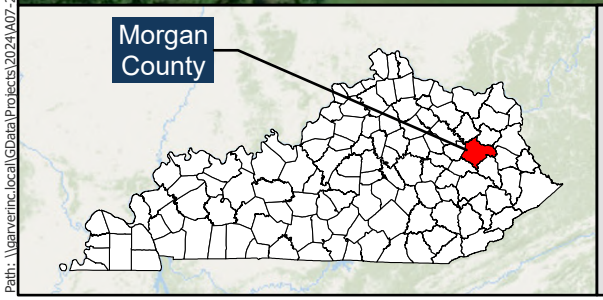

Direct Study Area
Tree Area
Stream

Figure 2: Habitat Map

9I3 Obstruction Removal
Morgan County, Kentucky

N

0 250 500 1,000
Feet

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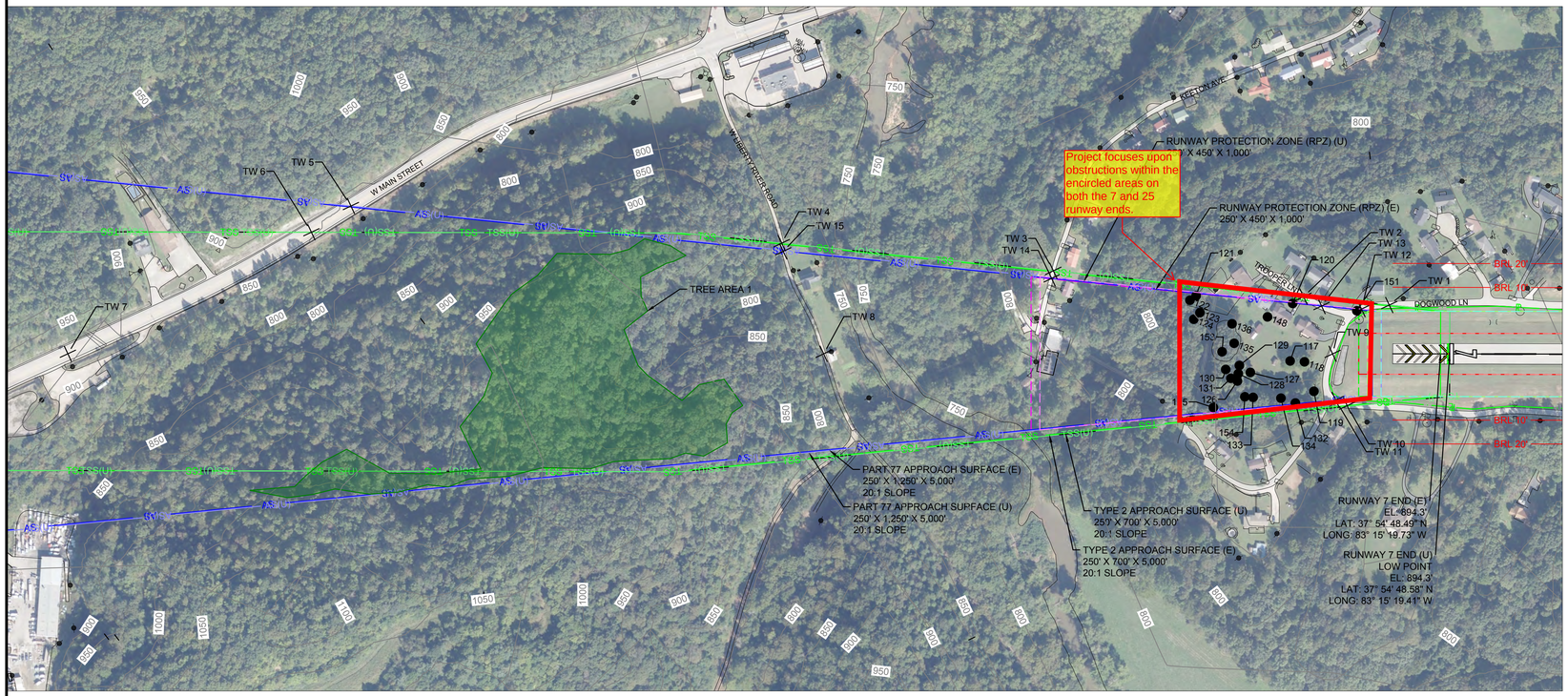

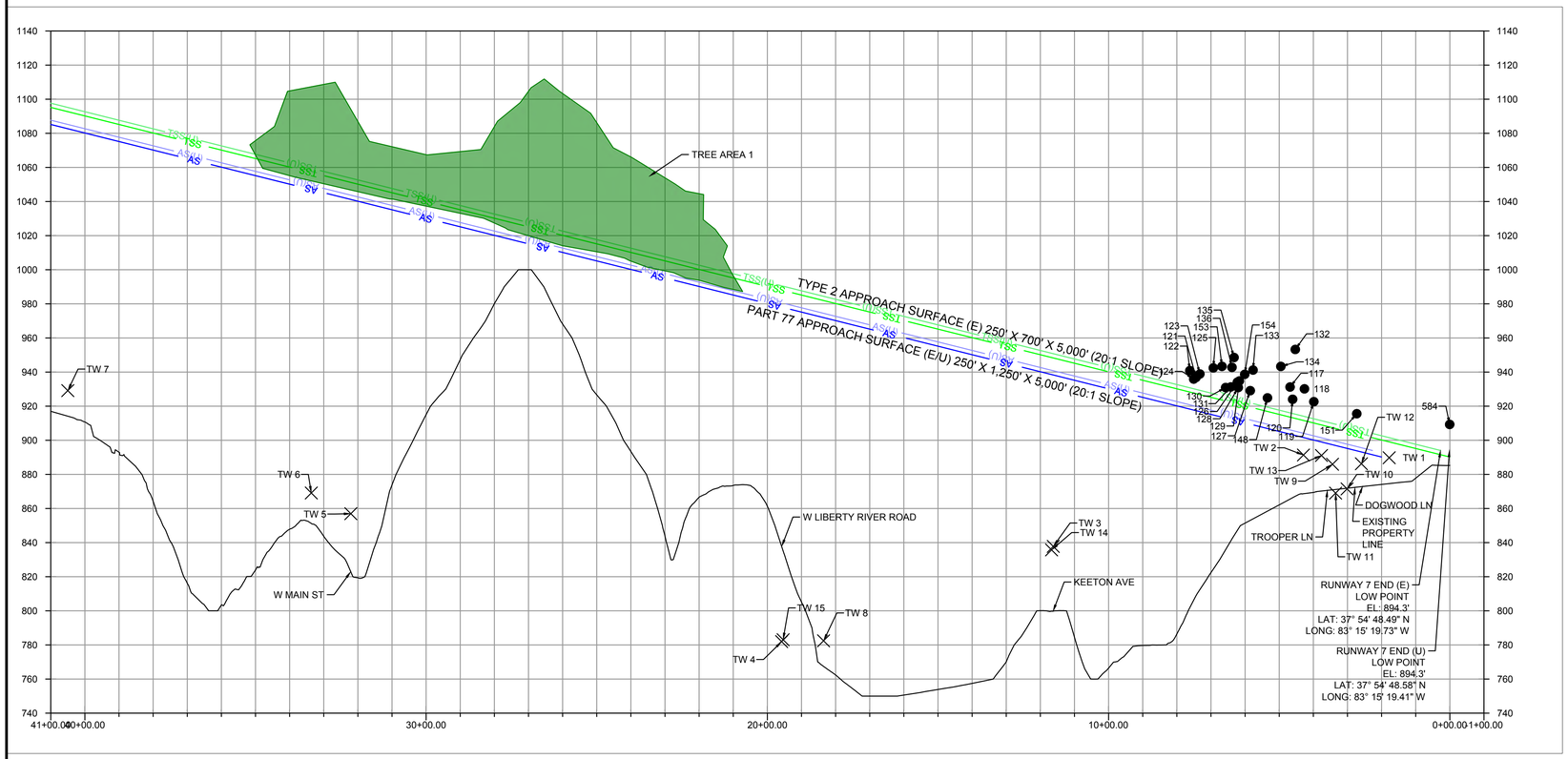

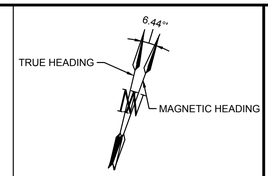

NOTES:

1. VERTICAL EXAGERATION IS 5' IN THE PROFILE.
2. OBSTRUCTION SURVEY WAS COMPLETED IN DECEMBER 2021.
3. FOR ULTIMATE PART 77 SURFACE OBSTRUCTIONS, SEE AIRSPACE DRAWING.
4. ALL TRAVERSE WAY CLEARANCES HAVE BEEN ADJUSTED FOR HEIGHT OF NATURAL OBJECTS, 10' FOR PRIVATE ROADS, 15' FOR PUBLIC ROADS, 17' FOR INTERSTATE HIGHWAYS, 23' FOR RAILROADS.
5. TOPOGRAPHIC CONTOURS ARE AT 50' INTERVALS DUE TO STEEP TOPOGRAPHY AROUND THE AIRPORT.
6. TW STAND FOR TRAVERSE WAY.
7. NO FUTURE DEVELOPMENT SHOWN IN APPROACH AREA.

THE PREPARATION OF THESE DOCUMENTS WAS FINANCED IN PART THROUGH A PLANNING GRANT FROM THE FEDERAL AVIATION ADMINISTRATION AS PROVIDED UNDER SECTION 505 OF THE AIRPORT AND AIRWAY IMPROVEMENT ACT OF 1982, AS AMENDED. THE CONTENTS DO NOT NECESSARILY REFLECT THE OFFICIAL VIEWS OR POLICY OF THE FAA. ACCEPTANCE OF THESE DOCUMENTS BY THE FAA DOES NOT IN ANY WAY CONSTITUTE A COMMITMENT ON THE PART OF THE UNITED STATES TO PARTICIPATE IN ANY DEVELOPMENT DEPICTED HEREIN NOR DOES IT INDICATE THAT THE PROPOSED DEVELOPMENT IS ENVIRONMENTALLY ACCEPTABLE IN ACCORDANCE WITH APPROPRIATE PUBLIC LAWS.

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TITLE, AIRPORT SPONSOR'S REPRESENTATIVE

SIGNATURE DATE

FEDERAL AVIATION ADMINISTRATION APPROVAL BLOCK

LEGEND

ITEM	EXISTING	ULTIMATE
BUILDING RESTRICTION LINE	BRL 35'	BRL 35'
AIRPORT PROPERTY LINE	P	P(U)
FENCE	X	XX
AIRFIELD PAVEMENT		
PAVEMENT REMOVAL		
BEACON		
FUEL STORAGE AND PUMPS		SAME
BUILDINGS		
LIGHTED WIND CONE & SEGMENTED CIRCLE		
AWOS		
GROUND CONTOURS	680	SAME
PRECISION APPROACH PATH INDICATOR (PAPI)		
THRESHOLD LIGHTS		
RUNWAY PROTECTION ZONE (RPZ)		
RUNWAY SAFETY AREA (RSA)		
RUNWAY OBJECT FREE AREA (OFA)		
RUNWAY OBSTACLE FREE ZONE (OFZ)		
TAXIWAY SAFETY AREA (TSA)		SAME
TAXIWAY OBJECT FREE AREA (TOFA)		SAME
PART 77 APPROACH SURFACE	AS	AS (U)
DEPARTURE SURFACE	DEP	DEP (U)
GLIDE SLOPE QUALIFICATION SURFACE	VGS	VGS (U)
THRESHOLD SITING SURFACE	TSS	TSS (U)
HOLDLINES & SIGNS		
AIRPORT REFERENCE POINT (ARP)		
VEGETATION		SAME

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REV	DATE	DESCRIPTION	BY

WEST LIBERTY AIRPORT
WEST LIBERTY, KENTUCKY

WEST LIBERTY AIRPORT
LAYOUT PLAN

Inner Portion of Approach Surface Drawing 7

JOB NO.: 21A14220
DATE: AUGUST 2023
DESIGNED BY: NRP
DRAWN BY: JJL

BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

APPENDIX A - PROJECT LAYOUT EXHIBIT (RW 7 END)

SHEET NUMBER

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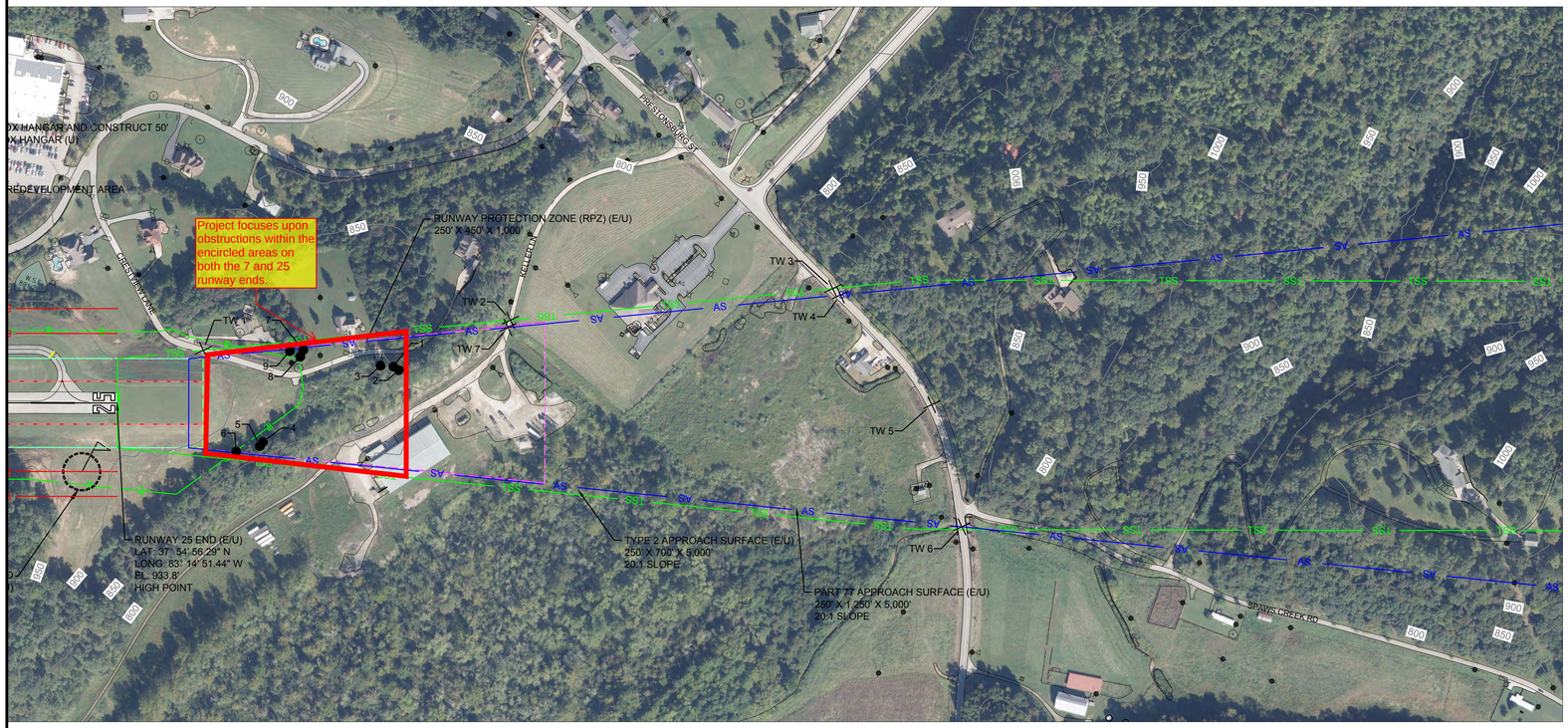

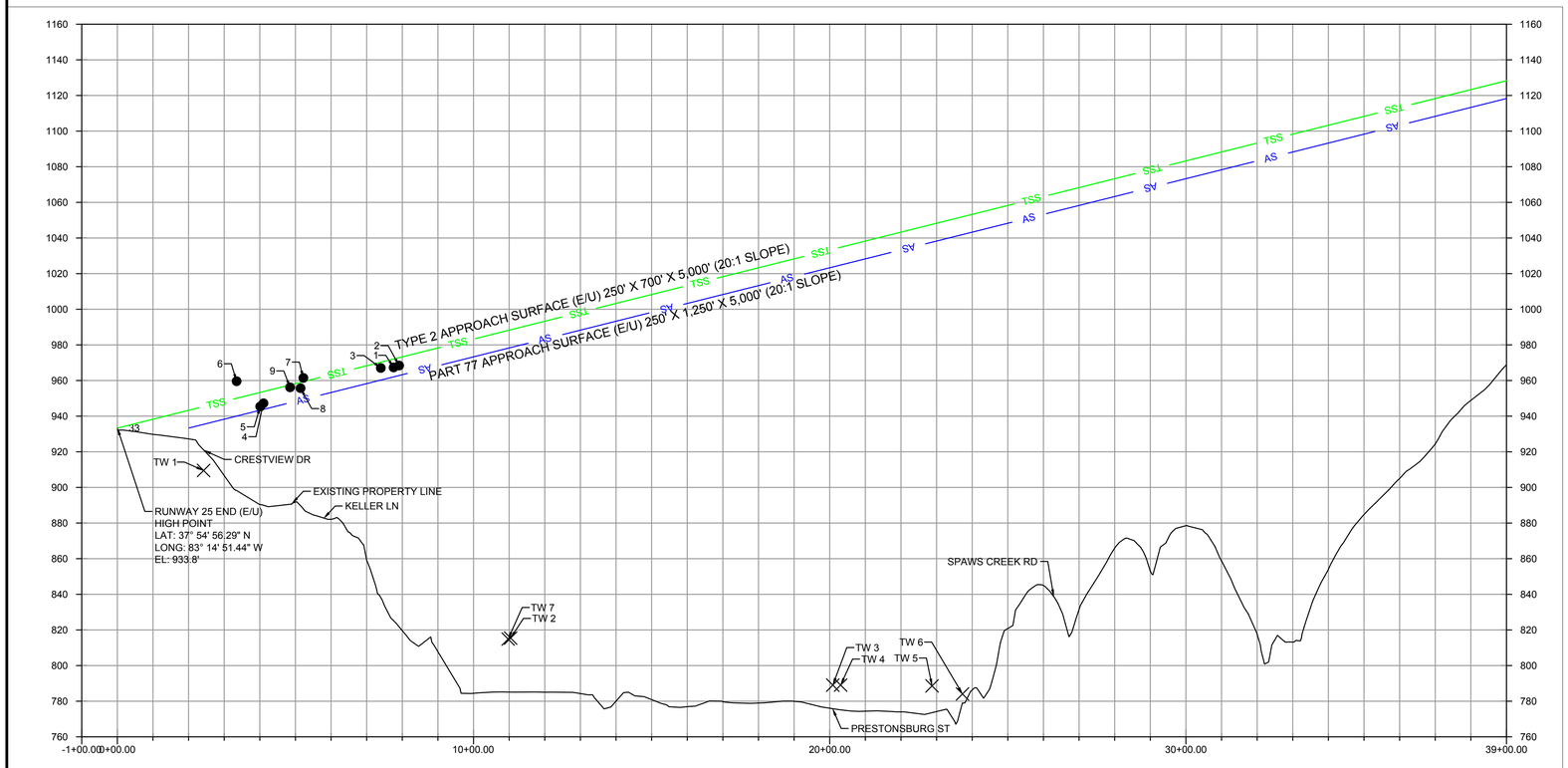

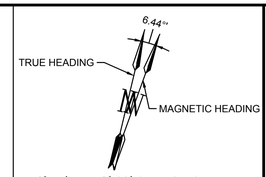

6° 44' W ± 0° 22' CHANGING BY
0° 3' W PER YEAR (JULY 2023)

0 100' 200' 400' 600'

(IN FEET)

NOTES:

1. VERTICAL EXAGERATION IS 5' IN THE PROFILE.
2. OBSTRUCTION SURVEY WAS COMPLETED ON DECEMBER 2021.
3. ALL TRAVERSE WAY CLEARANCES HAVE BEEN ADJUSTED FOR HEIGHT OF NATURAL OBJECTS, 10' FOR PRIVATE ROADS, 15' FOR PUBLIC ROADS, 17' FOR INTERSTATE HIGHWAYS, 23' FOR RAILROADS.
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TITLE, AIRPORT SPONSOR'S REPRESENTATIVE

SIGNATURE DATE

FEDERAL AVIATION ADMINISTRATION APPROVAL BLOCK

LEGEND

ITEM	EXISTING	ULTIMATE
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FENCE	X	XX
AIRFIELD PAVEMENT		
PAVEMENT REMOVAL		
BEACON		
FUEL STORAGE AND PUMPS		SAME
BUILDINGS		
LIGHTED WIND CONE & SEGMENTED CIRCLE		
AWOS		
GROUND CONTOURS	680	SAME
PRECISION APPROACH PATH INDICATOR (PAPI)		
THRESHOLD LIGHTS		
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DEPARTURE SURFACE	DEP	DEP (U)
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THRESHOLD SITING SURFACE	TSS	TSS (U)
HOLDLINES & SIGNS		
AIRPORT REFERENCE POINT (ARP)		
VEGETATION		SAME

REV.	DATE	DESCRIPTION	BY

WEST LIBERTY AIRPORT
WEST LIBERTY, KENTUCKY

WEST LIBERTY AIRPORT
LAYOUT PLAN

Inner Portion of Approach Surface Drawing 25

JOB NO.: 21A14220
DATE: AUGUST 2023
DESIGNED BY: NRP
DRAWN BY: JJL

BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
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APPENDIX A - PROJECT LAYOUT EXHIBIT (RW 25 END)

SHEET NUMBER

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United States Department of the Interior

FISH AND WILDLIFE SERVICE
Kentucky Ecological Services Field Office
J C Watts Federal Building, Room 265
330 West Broadway
Frankfort, KY 40601-8670
Phone: (502) 695-0467 Fax: (502) 695-1024
Email Address: kentuckyes@fws.gov

In Reply Refer To: 03/02/2026 20:55:50 UTC
Project Code: 2025-0104398
Project Name: 9I3 Runway 7-25 Obstruction Removal

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the

human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

https://www.fws.gov/sites/default/files/documents/endangered-species-consultation-handbook.pdf

Migratory Birds: In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts, see https://www.fws.gov/program/migratory-bird-permit/what-we-do..

It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a federal nexus) or a Bird/Eagle Conservation Plan (when there is no federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures, see https://www.fws.gov/library/collections/threats-birds.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of Executive Order 13186, please visit https://www.fws.gov/partner/council-conservation-migratory-birds.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List

OFFICIAL SPECIES LIST

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Kentucky Ecological Services Field Office
J C Watts Federal Building, Room 265
330 West Broadway
Frankfort, KY 40601-8670
(502) 695-0467

PROJECT SUMMARY

Project Code: 2025-0104398
Project Name: 9I3 Runway 7-25 Obstruction Removal
Project Type: Airport - Maintenance/Modification
Project Description: West Liberty Airport (9I3) has identified individual trees as obstructions to the approach surfaces to Runway 7-25. The purpose of the Proposed Action is to remove these obstructions that are penetrating the 20:1 Threshold Siting Surface (TSS) and Part 77 Approach Surface (AS). The Airport needs to remove these obstructions to provide safe approaches for landing aircraft and for compliance with Code of Federal Regulation (CFR) Part 77 airspace regulations. The project includes removal of individual trees have been identified as obstructions, which are located off airport property on privately owned properties. Obstruction removal will include tree felling by hand and left in place or removed, with stumps ground to existing grade.

Project Location:

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@37.91617215,-83.2459848084232,14z



Counties: Morgan County, Kentucky

ENDANGERED SPECIES ACT SPECIES

There is a total of 10 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. Note that 1 of these species should be considered only under certain conditions.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries[1], as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

---

1. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

MAMMALS

NAME	STATUS
Gray Bat *Myotis grisescens*	Endangered
No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/6329 General project design guidelines: https://ipac.ecosphere.fws.gov/project/JXSSJ67V35EVNEUMHJLKKP5KRU/documents/generated/6422.pdf	
Indiana Bat *Myotis sodalis*	Endangered
There is **final** critical habitat for this species. Your location does not overlap the critical habitat. This species only needs to be considered under the following conditions: ▪ The project area includes 'potential' habitat. All activities in this location should consider possible effects to this species. Species profile: https://ecos.fws.gov/ecp/species/5949 General project design guidelines: https://ipac.ecosphere.fws.gov/project/JXSSJ67V35EVNEUMHJLKKP5KRU/documents/generated/6422.pdf	
Northern Long-eared Bat *Myotis septentrionalis*	Endangered
No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045 General project design guidelines: https://ipac.ecosphere.fws.gov/project/JXSSJ67V35EVNEUMHJLKKP5KRU/documents/generated/6422.pdf	
Tricolored Bat *Perimyotis subflavus*	Proposed Endangered
No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/10515	
Virginia Big-eared Bat *Corynorhinus (=Plecotus) townsendii virginianus*	Endangered
There is **final** critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/8369 General project design guidelines: https://ipac.ecosphere.fws.gov/project/JXSSJ67V35EVNEUMHJLKKP5KRU/documents/generated/6422.pdf	

AMPHIBIANS

NAME	STATUS
Eastern Hellbender *Cryptobranchus alleganiensis alleganiensis*	Proposed Endangered
No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9039	

CLAMS

NAME	STATUS
Pink Mucket (pearlymussel) *Lampsilis abrupta*	Endangered
No critical habitat has been designated for this species.	

NAME	STATUS
Species profile: https://ecos.fws.gov/ecp/species/7829 General project design guidelines: https://ipac.ecosphere.fws.gov/project/JXSSJ67V35EVNEUMHJLKKP5KRU/documents/generated/5639.pdf	
Salamander Mussel *Simpsonaias ambigua* There is **proposed** critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/6208	Proposed Endangered
Snuffbox Mussel *Epioblasma triquetra* There is **proposed** critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/4135	Endangered

INSECTS

NAME	STATUS
Monarch Butterfly *Danaus plexippus* There is **proposed** critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/9743	Proposed Threatened

CRITICAL HABITATS

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

IPAC USER CONTACT INFORMATION

Agency: West Liberty city
Name: Garver LLC
Address: 4300 South J.B Hunt Drive, Suite 240
Address Line 2: Suite 240
City: Rogers
State: AR
Zip: 72758
Email arbiologist@garverusa.com
Phone: 4792874628

LEAD AGENCY CONTACT INFORMATION

Lead Agency: Federal Aviation Administration

You have indicated that your project falls under or receives funding through the following special project authorities:

- BIPARTISAN INFRASTRUCTURE LAW (BIL) (OTHER)

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Kentucky Ecological Services Field Office
J C Watts Federal Building, Room 265
330 West Broadway
Frankfort, KY 40601-8670
Phone: (502) 695-0467 Fax: (502) 695-1024
Email Address: kentuckyes@fws.gov

In Reply Refer To: 03/02/2026 21:36:18 UTC
Project code: 2025-0104398
Project Name: 9I3 Runway 7-25 Obstruction Removal

Subject: Technical Assistance letter for the project named '9I3 Runway 7-25 Obstruction Removal' for specified threatened and endangered species that may occur in your proposed project location consistent with the Kentucky Determination Key (DKey)

Dear Garver LLC:

The U.S. Fish and Wildlife Service (Service) received on **March 02, 2026** your effect determination(s) for the '9I3 Runway 7-25 Obstruction Removal' (Action) using the Kentucky (DKey) within the Information for Planning and Consultation (IPaC) system. The Service developed this system in accordance with the Endangered Species Act of 1973 (ESA) (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.).

Based on your answers and the assistance of the Service's Kentucky DKey, you made the following effect determination(s) for the proposed Action:

Species	Listing Status	Determination
Gray Bat (*Myotis grisescens*)	Endangered	No effect
Pink Mucket (pearlymussel) (*Lampsilis abrupta*)	Endangered	No effect
Snuffbox Mussel (*Epioblasma triquetra*)	Endangered	No effect
Virginia Big-eared Bat (*Corynorhinus (=Plecotus) townsendii virginianus*)	Endangered	May affect

Consultation Status

May Affect Determinations: Species with May Affect determinations are those for which the DKey was unable to provide a conclusion or those for which you were either unsure about the determination or you chose to make a "may affect" determination. If the DKey was unable to provide a conclusion, this does not necessarily mean that the project is likely to adversely affect the species. If you think the project may affect the species or want additional technical assistance, please follow the instructions in the "Additional Coordination" section below. If a federal action agency chooses to make a "no effect" determination for the species, there is no

statutory requirement to request concurrence with that determination; however, the federal action agency should document the supporting information for this determination in their files. This documentation would typically demonstrate a lack of suitable habitat within the action area, show that no impacts to suitable habitat would occur, or provide information that the species is not reasonably certain to occur in the action area even though suitable habitat is present.

The Service recommends that your agency contact the Kentucky Ecological Services Field Office or re-evaluate the Action in IPaC if: 1) the scope, timing, duration, or location of the Action changes, 2) new information reveals the Action may affect listed species or designated critical habitat, or 3) a new species is listed or critical habitat designated. If any of the above conditions occurs, additional consultation with the Kentucky Ecological Services Field Office should take place before project changes are final or resources committed.

The following species and/or critical habitats may also occur in your project area and **are not** covered by this conclusion:

- Eastern Hellbender *Cryptobranchus alleganiensis alleganiensis* Proposed Endangered
- Indiana Bat *Myotis sodalis* Endangered
- Monarch Butterfly *Danaus plexippus* Proposed Threatened
- Northern Long-eared Bat *Myotis septentrionalis* Endangered
- Salamander Mussel *Simpsonaias ambigua* Proposed Endangered
- Tricolored Bat *Perimyotis subflavus* Proposed Endangered

To address effects to other federally listed or proposed species and/or their designated critical habitat, you can request project-specific review by following the instructions in the “Next Steps” section of your species list letter, or you may use another determination key, if available.

Additional Coordination

To request additional technical assistance or consultation, please contact the Kentucky Ecological Services Field Office . When you contact the office, please provide all relevant site-specific information regarding the proposed Action. The Kentucky Ecological Services Field Office will respond within 30 to 60 days of your submittal.

Action Description
You provided to IPaC the following name and description for the subject Action.

1. Name

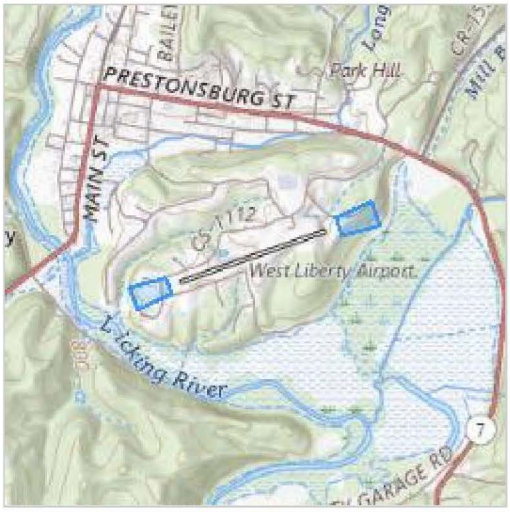
9I3 Runway 7-25 Obstruction Removal

2. Description

The following description was provided for the project '9I3 Runway 7-25 Obstruction Removal':

> West Liberty Airport (9I3) has identified individual trees as obstructions to the approach surfaces to Runway 7-25. The purpose of the Proposed Action is to remove these obstructions that are penetrating the 20:1 Threshold Siting Surface (TSS) and Part 77 Approach Surface (AS). The Airport needs to remove these obstructions to provide safe approaches for landing aircraft and for compliance with Code of Federal Regulation (CFR) Part 77 airspace regulations. The project includes removal of individual trees have been identified as obstructions, which are located off airport property on privately owned properties. Obstruction removal will include tree felling by hand and left in place or removed, with stumps ground to existing grade.

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@37.91617215,-83.2459848084232,14z



QUALIFICATION INTERVIEW

1. Will the proposed Action involve Federal funding, permitting, or authorization, or will it be carried out by a Federal Agency?

   Yes

2. Does the proposed action include a communication tower requiring Federal Communication Commission (FCC) authorization or approval?

   No

3. Are you the lead Federal Action Agency or designated non-federal representative requesting concurrence on behalf of the lead Federal Action Agency?

   No

4. [Hidden Semantic] Does the action area intersect critical habitat?

   Automatically answered
   No

5. Will the proposed Action involve construction or operation of wind turbines?

   No

6. Will the proposed Action involve blasting (other than a fireworks display)?

   No

7. Will the proposed Action involve a new point source discharge from a facility other than a water treatment plant or storm water system?

   No

8. Will the proposed Action involve the creation of a new water-borne contaminant source (e.g. leachate pond, pits containing chemicals that are not NSF/ANSI 60 compliant)?

   No

9. Will the proposed Action include the removal, replacement, repair and/or maintenance of an existing bridge or culvert?

   No

10. Will the proposed Action involve perennial stream loss that would require an individual permit under 404 of the Clean Water Act?

    No

11. Will the proposed Action involve discharge of sediment into a stream?

    No

12. Does the Action Area contain any caves (including their associated sinkholes, fissures, or other karst features), rockshelters, underground quarries, or abandoned mine portals (including associated underground workings)?

    No

13. [Hidden Semantic] Does the Action Area intersect the Kentucky AOI of the gray bat?

    Automatically answered
    Yes

14. Will the proposed Action involve drilling or boring?

    No

15. Based on the responses you have provided, we believe that the proposed Action is consistent with the type of Actions programmatically evaluated by the Service's Kentucky Field Office under the standing analyses that support this determination key. These Actions typically conclude with "no effect" or "may affect - not likely to adversely affect" determinations for the gray bat.

    What is your effect determination for the **gray bat**?

    Note:*IPaC will not provide a concurrence for "no effect" determinations, because there is no statutory requirement to request concurrence from the Service. IPaC will provide concurrence for "May affect – not likely to adversely affect" determinations. If you choose "May affect – likely to adversely affect" or "Unsure," additional coordination with the Service is recommended.*

    1. "No effect"

16. [Hidden Semantic] Does the Action Area intersect the Kentucky AOI of the Virginia big-eared bat?

    Automatically answered
    Yes

17. Will the proposed Action involve activities that occur within 1,000 feet from a cliffline? *A cliffline is a naturally occurring, exposed, and nearly vertical rock structure at least 10 feet tall and 100 feet long.*

    Yes

18. Will the proposed Action involve a new point source discharge into a stream or change an existing point source discharge (e.g., outfalls; leachate ponds)?

    No

19. Will the proposed Action include any activities that would alter stream flow, such as hydropower energy production, impoundments, intake structures, diversion structures, and/or turbines?

    No

20. Will the proposed Action involve dredging or in-stream gravel mining?

    No

21. Will the proposed Action involve resource extraction (e.g., mining, oil/gas, logging), including exploration activities?

    No

22. Will the proposed Action involve stream impacts (perennial or intermittent) that would require an individual permit under 404 of the Clean Water Act?

    No

23. Will the proposed Action involve activities that would contribute measureable nonpoint source pollution to streams (e.g., sediment, nutrients, etc.)? *See the following EPA webpage for more examples of nonpoint source pollution and activities that can produce it: https://www.epa.gov/nps/basic-information-about-nonpoint-source-nps-pollution*

    No

24. Will the proposed Action involve new or increased use of public recreational OHV trails?

    No

25. Will the proposed Action disturb the channel or bank of a perennial or intermittent stream?

    No

26. Will the proposed Action disturb the channel or bank of an ephemeral stream?

    No

27. Will the proposed Action involve vegetation removal within 200 feet of a perennial stream bank?

    No

28. Will the proposed Action involve excavation or grading, including for the construction or improvement of an access road?

    No

29. [Hidden Semantic] Does the project area intersect the AOI of the snuffbox?

    Automatically answered
    Yes

30. Based on the responses you have provided, we believe that the proposed Action is consistent with the type of Actions programmatically evaluated by the Service's Kentucky Field Office under the standing analyses that support this determination key. These Actions typically conclude with "no effect" or "may affect - not likely to adversely affect" determinations for the snuffbox.

    What determination do you want to make for the **snuffbox**:

    Note: IPaC will not provide a concurrence for "no effect" determinations, because there is no statutory requirement to request concurrence from the Service. IPaC will provide concurrence for "May affect – not likely to adversely affect" determinations. If you choose "May affect – likely to adversely affect" or "Unsure," additional coordination with the Service is recommended.

    1. "No effect"

31. [Hidden Semantic] Does the project area intersect the AOI of the pink mucket (*Lampsilis abrupta*)?

    Automatically answered
    Yes

32. Based on the responses you have provided, we believe that the proposed Action is consistent with the type of Actions programmatically evaluated by the Service's Kentucky Field Office under the standing analyses that support this determination key. These Actions typically conclude with "no effect" or "may affect - not likely to adversely affect" determinations for the pink mucket.

    What is your effect determination for the **pink mucket**:

    Note: IPaC will not provide a concurrence for "no effect" determinations, because there is no statutory requirement to request concurrence from the Service. IPaC will provide concurrence for "May affect – not likely to adversely affect" determinations. If you choose "May affect – likely to adversely affect" or "Unsure," additional coordination with the Service is recommended.

    1. "No effect"

IPAC USER CONTACT INFORMATION

Agency: West Liberty city
Name: Garver LLC
Address: 4300 South J.B Hunt Drive, Suite 240
Address Line 2: Suite 240
City: Rogers
State: AR
Zip: 72758
Email arbiologist@garverusa.com
Phone: 4792874628

LEAD AGENCY CONTACT INFORMATION

Lead Agency: Federal Aviation Administration

You have indicated that your project falls under or receives funding through the following special project authorities:

- BIPARTISAN INFRASTRUCTURE LAW (BIL) (OTHER)

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Kentucky Ecological Services Field Office
J C Watts Federal Building, Room 265
330 West Broadway
Frankfort, KY 40601-8670
Phone: (502) 695-0467 Fax: (502) 695-1024
Email Address: kentuckyes@fws.gov

In Reply Refer To: 03/02/2026 21:24:29 UTC
Project code: 2025-0104398
Project Name: 9I3 Runway 7-25 Obstruction Removal

Subject: Technical Assistance letter for the project named '9I3 Runway 7-25 Obstruction Removal' for the endangered Indiana bat and its critical habitat in the proposed project location, pursuant to the Indiana Bat Determination Key (DKey)

Dear Garver LLC:

The U.S. Fish and Wildlife Service (Service) received on **March 02, 2026** your effect determination(s) for the '9I3 Runway 7-25 Obstruction Removal' using the Indiana Bat DKey within the Information for Planning and Consultation (IPaC) system. The Service developed this system in accordance with the Endangered Species Act of 1973 (ESA) (87 Stat.884, as amended; 16 U.S.C. 1531 et seq.).

Based on your answers and the assistance of the Service's Indiana Bat DKey, you made the following effect determination(s) for the proposed Action:

Species	Listing Status	Determination
Indiana Bat (*Myotis sodalis*)	Endangered	May affect

Consultation Status

May Affect Determinations: Species with May Affect determinations are those for which the DKey was unable to provide a conclusion or those for which you were either unsure about the determination or you chose to make a "may affect" determination. If the DKey was unable to provide a conclusion, this does not necessarily mean that the project is likely to adversely affect the species. If you think the project may affect the species or want additional technical assistance, please follow the instructions in the "Additional Coordination" section below. If a federal action agency chooses to make a "no effect" determination for the species, there is no statutory requirement to request concurrence with that determination; however, the federal action agency should document the supporting information for this determination in their files. This documentation would typically demonstrate a lack of suitable habitat within the action area,

show that no impacts to suitable habitat would occur, or provide information that the species is not reasonably certain to occur in the action area even though suitable habitat is present.

In addition to the Indiana bat, the following species and/or critical habitats may also occur in your project area and **are not** covered by this conclusion:

- Eastern Hellbender *Cryptobranchus alleganiensis alleganiensis* Proposed Endangered
- Gray Bat *Myotis grisescens* Endangered
- Monarch Butterfly *Danaus plexippus* Proposed Threatened
- Northern Long-eared Bat *Myotis septentrionalis* Endangered
- Pink Mucket (pearlymussel) *Lampsilis abrupta* Endangered
- Salamander Mussel *Simpsonaias ambigua* Proposed Endangered
- Snuffbox Mussel *Epioblasma triquetra* Endangered
- Tricolored Bat *Perimyotis subflavus* Proposed Endangered
- Virginia Big-eared Bat *Corynorhinus (=Plecotus) townsendii virginianus* Endangered

To address effects to other federally listed or proposed species and/or their designated critical habitat, you can request project-specific review by following the instructions in the “Next Steps” section of your species list letter, or you may use another determination key, if available.

Additional Coordination

To request additional technical assistance or consultation, please contact the Kentucky Ecological Services Field Office . When you contact the office, please provide all relevant site-specific information regarding the proposed Action. The Kentucky Ecological Services Field Office will respond within 30 to 60 days of your submittal.

Action Description
You provided to IPaC the following name and description for the subject Action.

1. Name

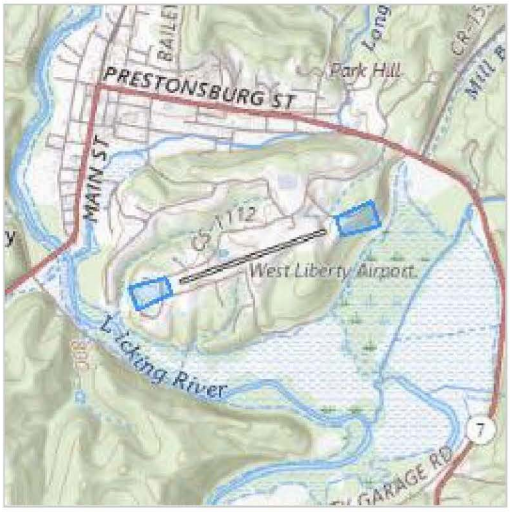
9I3 Runway 7-25 Obstruction Removal

2. Description

The following description was provided for the project '9I3 Runway 7-25 Obstruction Removal':

> West Liberty Airport (9I3) has identified individual trees as obstructions to the approach surfaces to Runway 7-25. The purpose of the Proposed Action is to remove these obstructions that are penetrating the 20:1 Threshold Siting Surface (TSS) and Part 77 Approach Surface (AS). The Airport needs to remove these obstructions to provide safe approaches for landing aircraft and for compliance with Code of Federal Regulation (CFR) Part 77 airspace regulations. The project includes removal of individual trees have been identified as obstructions, which are located off airport property on privately owned properties. Obstruction removal will include tree felling by hand and left in place or removed, with stumps ground to existing grade.

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@37.91617215,-83.2459848084232,14z



QUALIFICATION INTERVIEW

1. Does the project intersect the Indiana bat species list area?

   Automatically answered
   Yes

2. Will the proposed action involve Federal funding, permitting, or authorization, or will it be carried out by a Federal Agency?

   Yes

3. Does the proposed action include a communication tower requiring Federal Communication Commission (FCC) authorization or approval?

   No

4. Is the Federal Highway Administration (FHWA), Federal Railroad Administration (FRA), or Federal Transit Administration (FTA) the lead Federal Agency for this action?

   No

5. Are you the lead Federal Action Agency or designated non-federal representative requesting concurrence on behalf of the lead Federal Action Agency?

   Yes

6. Will the proposed Action involve construction or operation of a wind turbines?

   No

7. Will the proposed Action involve blasting, other than a fireworks display?

   No

8. Will the proposed Action involve a new point source discharge from a facility other than a water treatment plant or storm water system?

   No

9. Will the proposed Action involve the creation of a new water-borne contaminant source (e.g., leachate pond, pits containing chemicals that are not NSF/ANSI 60 compliant)?

   Note: For information regarding NSF/ANSI 60 please visit https://www.nsf.org/knowledge-library/nsf-ansi-standard-60-drinking-water-treatment-chemicals-health-effects

   No

10. Will the proposed Action include the removal, replacement, repair and/or maintenance of an existing bridge?

    No

11. Will the proposed Action involve perennial stream loss that would require an individual permit under 404 of the Clean Water Act?

    No

12. Will the proposed Action involve discharge of sediment into a stream?

    No

13. Does the Action Area contain any caves (including their associated sinkholes, fissures, or other karst features), rockshelters, underground quarries, or abandoned mine portals (including associated underground workings)?

    No

14. Will the proposed project result in the removal of trees?

    Yes

15. Did a **FWS-approved** habitat model applicable to the project site determine the project site to be of low probability for use by Indiana bats?

    Note: This question will most commonly be answered "no." If the answer to this question is "yes", you will be required to upload your **Habitat Model Report**

    No

16. Will the proposed project result in the removal of potentially suitable summer habitat for the Indiana bat?

    Suitable summer habitat for Indiana bats consists of a wide variety of forested/wooded habitats where they roost, forage, and travel. This includes forests and woodlots, linear features such as fencerows, riparian forests, and other wooded corridors. These wooded areas may be dense or loose aggregates of trees with variable amounts of canopy closure. Individual trees may be considered suitable habitat when they exhibit the characteristics of a potential roost tree (live tree and/or snag ≥5 inches diameter at breast height (dbh) (12.7 centimeter) that has exfoliating bark, cracks, crevices, and/or hollows) and are located within 1,000 feet (305 meters) of other forested/wooded habitat. See the Indiana Bat and Northern Long-eared Bat Survey Guidelines for additional description (https://www.fws.gov/library/collections/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines).

    Note: If "no" upload a document with photos representative of the forested habitat to be removed.

    Yes

17. Does the action area intersect known Indiana bat habitat in Kentucky?

    Automatically answered
    No

18. Will the proposed Action remove any suitable (primary or alternate) Indiana bat roost trees? *Suitable Indiana bat roost trees are live trees and/or snags ≥5 inches diameter at breast height (dbh) (12.7 centimeter) that have exfoliating bark, cracks, crevices, and/or hollows*.

    Note: If "no" upload a document with photos representative of the forested habitat to be removed.

    Yes

19. Will the proposed Action remove any suitable primary roost trees?

    Suitable Indiana bat primary maternity roost tree refers to a dead tree or snag that is nine inches or greater in diameter at breast height and has loose or exfoliating bark, cracks, crevices, and/or hollows. A live tree may also qualify if it contains hollows or dead portions with loose or exfoliating bark, cracks, and/or crevices.

    Note: If "no" upload a document with photos representative of the forested habitat to be removed.

    Yes

20. If appropriate, would you like to conduct a voluntary emergence survey to determine if bats are using all of the suitable roost trees proposed for removal? *Emergence surveys require a surveyor to observe each suitable roost tree for the presence of bats. Surveys should follow the protocol in Appendix E in the USFWS' current Indiana Bat and Northern Long-eared Bat Survey Guidelines at https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines.*

    No

21. Would you like to conduct a voluntary summer presence/absence survey (netting or acoustic) of the project area?

    Note: If "yes" upload a survey proposal for the Field Office to review. Surveys should be conducted in accordance with the USFWS' current Indiana Bat and Northern Long-eared Bat Survey Guidelines, found at https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines

    No

IPAC USER CONTACT INFORMATION

Agency: West Liberty city
Name: Garver LLC
Address: 4300 South J.B Hunt Drive, Suite 240
Address Line 2: Suite 240
City: Rogers
State: AR
Zip: 72758
Email arbiologist@garverusa.com
Phone: 4792874628

LEAD AGENCY CONTACT INFORMATION

Lead Agency: Federal Aviation Administration

You have indicated that your project falls under or receives funding through the following special project authorities:

- BIPARTISAN INFRASTRUCTURE LAW (BIL) (OTHER)

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Kentucky Ecological Services Field Office
J C Watts Federal Building, Room 265
330 West Broadway
Frankfort, KY 40601-8670
Phone: (502) 695-0467 Fax: (502) 695-1024
Email Address: kentuckyes@fws.gov

In Reply Refer To: 03/02/2026 21:45:26 UTC
Project code: 2025-0104398
Project Name: 9I3 Runway 7-25 Obstruction Removal

Federal Nexus: yes
Federal Action Agency (if applicable): Federal Aviation Administration

Subject: Technical assistance for '9I3 Runway 7-25 Obstruction Removal'

Dear Garver LLC:

This letter records your determination using the Information for Planning and Consultation (IPaC) system provided to the U.S. Fish and Wildlife Service (Service) on March 02, 2026, for '9I3 Runway 7-25 Obstruction Removal' (here forward, Project). This project has been assigned Project Code 2025-0104398 and all future correspondence should clearly reference this number. **Please carefully review this letter. Your Endangered Species Act (Act) requirements may not be complete.**

Ensuring Accurate Determinations When Using IPaC

The Service developed the IPaC system and associated species' determination keys in accordance with the Endangered Species Act of 1973 (ESA; 87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.) and based on a standing analysis. All information submitted by the Project proponent into IPaC must accurately represent the full scope and details of the Project.

Failure to accurately represent or implement the Project as detailed in IPaC or the Northern Long-eared Bat and Tricolored Bat Range-wide Determination Key (Dkey), invalidates this letter. ***Answers to certain questions in the DKey commit the project proponent to implementation of conservation measures that must be followed for the ESA determination to remain valid. Note that conservation measures for northern long-eared bat and tricolored bat may differ. If both bat species are present in the action area and the key suggests more conservative measures for one of the species for your project, the Project may need to apply the most conservative measures in order to avoid adverse effects. If unsure which conservation measures should be applied, please contact the appropriate Ecological Services Field Office***

Determination for the Northern Long-Eared Bat and Tricolored Bat

Based upon your IPaC submission and a standing analysis completed by the Service, your project has reached the following effect determination(s):

Species	Listing Status	Determination
Northern Long-eared Bat (*Myotis septentrionalis*)	Endangered	NLAA
Tricolored Bat (*Perimyotis subflavus*)	Proposed Endangered	NLAA

Federal agencies must consult with U.S. Fish and Wildlife Service under section 7(a)(2) of the Endangered Species Act (ESA) when an action *may affect* a listed species. Tricolored bat is proposed for listing as endangered under the ESA, but not yet listed. For actions that may affect a proposed species, agencies cannot consult, but they can *confer* under the authority of section 7(a)(4) of the ESA. Such conferences can follow the procedures for a consultation and be adopted as such if and when the proposed species is listed. Should the tricolored bat be listed, agencies must review projects that are not yet complete, or projects with ongoing effects within the tricolored bat range that previously received a NE or NLAA determination from the key to confirm that the determination is still accurate.

Other Species and Critical Habitat that May be Present in the Action Area

The IPaC-assisted determination key for the northern long-eared bat and tricolored bat does not apply to the following ESA-protected species and/or critical habitat that also may occur in your Action area:

- Eastern Hellbender *Cryptobranchus alleganiensis alleganiensis* Proposed Endangered
- Gray Bat *Myotis grisescens* Endangered
- Indiana Bat *Myotis sodalis* Endangered
- Monarch Butterfly *Danaus plexippus* Proposed Threatened
- Pink Mucket (pearlymussel) *Lampsilis abrupta* Endangered
- Salamander Mussel *Simpsonaias ambigua* Proposed Endangered
- Snuffbox Mussel *Epioblasma triquetra* Endangered
- Virginia Big-eared Bat *Corynorhinus (=Plecotus) townsendii virginianus* Endangered

You may coordinate with our Office to determine whether the Action may cause prohibited take of the animal species listed above. Note that if a new species is listed that may be affected by the identified action before it is complete, additional review is recommended to ensure compliance with the Endangered Species Act.

Next Steps

Consultation with the Service is necessary. The project has a federal nexus (e.g., Federal funds, permit, etc.), but you are not the federal action agency or its designated (in writing) non-federal representative. Therefore, the ESA consultation status is incomplete and no project activities

should occur until consultation between the Service and the Federal action agency (or designated non-federal representative), is completed.

As the federal agency or designated non-federal representative deems appropriate, they should submit their determination of effects to the Service by doing the following.

1. Log into IPaC using an agency email account and click on My Projects, click "Search by record locator" to find this Project using **717-177560236**. (Alternatively, the originator of the project in IPaC can add the agency representative to the project by using the Add Member button on the project home page.)
2. Review the answers to the Northern Long-eared Bat and Tricolored Bat Range-wide Determination Key to ensure that they are accurate.
3. Click on Review/ Finalize to convert the ‘not likely to adversely affect’ technical assistance letter to a concurrence letter. Download the concurrence letter for your files if needed.

If no changes occur with the Project or there are no updates on listed species, no further consultation/coordination for this project is required for the northern long-eared bat. However, the Service recommends that project proponents re-evaluate the Project in IPaC if: 1) the scope, timing, duration, or location of the Project changes (includes any project changes or amendments); 2) new information reveals the Project may impact (positively or negatively) federally listed species or designated critical habitat; or 3) a new species is listed, or critical habitat designated. If any of the above conditions occurs, additional coordination with the Service should take place before project implements any changes which are final or commits additional resources.

If you have any questions regarding this letter or need further assistance, please contact the Kentucky Ecological Services Field Office and reference Project Code 2025-0104398 associated with this Project.

Action Description
You provided to IPaC the following name and description for the subject Action.

1. Name

9I3 Runway 7-25 Obstruction Removal

2. Description

The following description was provided for the project '9I3 Runway 7-25 Obstruction Removal':

> West Liberty Airport (9I3) has identified individual trees as obstructions to the approach surfaces to Runway 7-25. The purpose of the Proposed Action is to remove these obstructions that are penetrating the 20:1 Threshold Siting Surface (TSS) and Part 77 Approach Surface (AS). The Airport needs to remove these obstructions to provide safe approaches for landing aircraft and for compliance with Code of Federal Regulation (CFR) Part 77 airspace regulations. The project includes removal of individual trees have been identified as obstructions, which are located off airport property on privately owned properties. Obstruction removal will include tree felling by hand and left in place or removed, with stumps ground to existing grade.

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@37.91617215,-83.2459848084232,14z



DETERMINATION KEY RESULT

Based on the answers provided, the proposed Action is consistent with a determination of "may affect, but not likely to adversely affect" for a least one species covered by this determination key.

QUALIFICATION INTERVIEW

1. Does the proposed project include, or is it reasonably certain to cause, intentional take of listed bats or any other listed species?

   Note: Intentional take is defined as take that is the intended result of a project. Intentional take could refer to research, direct species management, surveys, and/or studies that include intentional handling/encountering, harassment, collection, or capturing of any individual of a federally listed threatened, endangered or proposed species?

   No

2. Is the action area wholly within Zone 2 of the year-round active area for northern long-eared bat and/or tricolored bat?

   Automatically answered
   No

3. Does the action area intersect Zone 1 of the year-round active area for northern long-eared bat and/or tricolored bat?

   Automatically answered
   No

4. Does any component of the action involve leasing, construction or operation of wind turbines? Answer 'yes' if the activities considered are conducted with the intention of gathering survey information to inform the leasing, construction, or operation of wind turbines.

   No

5. Is the proposed action authorized, permitted, licensed, funded, or being carried out by a Federal agency in whole or in part?

   Note for projects in Pennsylvania: Projects requiring authorization under Section 404 of the Clean Water Act and/or Section 10 of the Rivers and Harbors Act would be considered as having a federal nexus. Since the U.S. Army Corps of Engineers (Corps) has issued the Pennsylvania State Programmatic General Permit (PASPGP), which may be verified by the PA Department of Environmental Protection or certain Conservation Districts, the need to receive a Corps authorization to perform the work under the PASPGP serves as a federal nexus. As such, if proposing to use the PASPGP, you would answer 'yes' to this question.

   Yes

6. Is the Federal Highway Administration (FHWA), Federal Railroad Administration (FRA), or Federal Transit Administration (FTA) funding or authorizing the proposed action, in whole or in part?

   No

7. Are you an employee of the federal action agency or have you been officially designated in writing by the agency as its designated non-federal representative for the purposes of Endangered Species Act Section 7 informal consultation per 50 CFR § 402.08?

   Note: This key may be used for federal actions and for non-federal actions to facilitate section 7 consultation and to help determine whether an incidental take permit may be needed, respectively. This question is for information purposes only.

   No

8. Is the lead federal action agency the Environmental Protection Agency (EPA) or Federal Communications Commission (FCC)? Is the Environmental Protection Agency (EPA) or Federal Communications Commission (FCC) funding or authorizing the proposed action, in whole or in part?

   No

9. Is the lead federal action agency the Federal Energy Regulatory Commission (FERC)?

   No

10. [Semantic] Is the action area located within 0.5 miles of a known bat hibernaculum or winter roost? Note: The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your state wildlife agency.

    Automatically answered

    No

11. Does the action area contain any winter roosts or caves (or associated sinkholes, fissures, or other karst features), mines, rocky outcroppings, or tunnels that could provide habitat for hibernating bats?

    No

12. Will the action cause effects to a bridge?

    Note: Covered bridges should be considered as bridges in this question.

    No

13. Will the action result in effects to a culvert or tunnel at any time of year?

    No

14. Are trees present within 1000 feet of the action area?

    Note: If there are trees within the action area that are of a sufficient size to be potential roosts for bats answer "Yes". If unsure, additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in Appendix A of the USFWS' Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines at: https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines.

    Yes

15. Does the action include the intentional exclusion of bats from a building or building-like structure? **Note:** Exclusion is conducted to deny bats' entry or reentry into a building. To be effective and to avoid harming bats, it should be done according to established standards. If your action includes bat exclusion and you are unsure whether northern long-eared bats or tricolored bats are present, answer "Yes." Answer "No" if there are no signs of bat use in the building/structure. If unsure, contact your local Ecological Services Field Office to help assess whether northern long-eared bats or tricolored bats may be present. Contact a Nuisance Wildlife Control Operator (NWCO) for help in how to exclude bats from a structure safely without causing harm to the bats (to find a NWCO certified in bat standards, search the Internet using the search term "National Wildlife Control Operators Association bats"). Also see the White-Nose Syndrome Response Team's guide for bat control in structures.

    No

16. Does the action involve removal, modification, or maintenance of a human-made building-like structure (barn, house, or other building) **known or suspected to contain roosting bats?**

    No

17. Will the action cause construction of one or more new roads open to the public?

    For federal actions, answer 'yes' when the construction or operation of these facilities is either (1) part of the federal action or (2) would not occur but for an action taken by a federal agency (federal permit, funding, etc.).

    No

18. Will the action include or cause any construction or other activity that is reasonably certain to increase average night-time traffic permanently or temporarily on one or more existing roads? **Note:** For federal actions, answer 'yes' when the construction or operation of these facilities is either (1) part of the federal action or (2) would not occur but for an action taken by a federal agency (federal permit, funding, etc.). .

    No

19. Will the action include or cause any construction or other activity that is reasonably certain to increase the number of travel lanes on an existing thoroughfare?

    For federal actions, answer 'yes' when the construction or operation of these facilities is either (1) part of the federal action or (2) would not occur but for an action taken by a federal agency (federal permit, funding, etc.).

    No

20. Will the proposed Action involve the creation of a new water-borne contaminant source (e.g., leachate pond, pits containing chemicals that are not NSF/ANSI 60 compliant)?

    Note: For information regarding NSF/ANSI 60 please visit https://www.nsf.org/knowledge-library/nsf-ansi-standard-60-drinking-water-treatment-chemicals-health-effects

    No

21. Will the proposed action involve the creation of a new point source discharge from a facility other than a water treatment plant or storm water system?

    No

22. Will the proposed action involve blasting or drilling?

    No

23. Will the action involve military training (e.g., smoke operations, obscurant operations, exploding munitions, artillery fire, range use, helicopter or fixed wing aircraft use at night)?

    No

24. Will the proposed action involve the use of herbicides or pesticides (e.g., fungicides, insecticides, or rodenticides)?

    No

25. Will the action include or cause activities that are reasonably certain to cause chronic or intense nighttime noise (above current levels of ambient noise in the area) in suitable summer habitat for the northern long-eared bat or tricolored bat during the active season?

    Chronic noise is noise that is continuous or occurs repeatedly again and again for a long time. Sources of chronic or intense noise that could cause adverse effects to bats may include, but are not limited to: road traffic; trains; aircraft; industrial activities; gas compressor stations; loud music; crowds; oil and gas extraction; construction; and mining.

    Note: Additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in Appendix A of the USFWS' Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines at: https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines.

    No

26. Does the action include, or is it reasonably certain to cause, the use of permanent or temporary artificial lighting within 1000 feet of suitable northern long-eared bat or tricolored bat roosting habitat?

    Note: Additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in Appendix A of the USFWS' Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines at: https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines.

    No

27. Will the action include tree cutting or other means of knocking down or bringing down trees, tree topping, or tree trimming?

    Yes

28. Is the project related to the production of coal, including projects that support the mining of coal, as well as the production and/or distribution of energy produced from coal?

    No

29. Will the proposed action occur exclusively in an already established and currently maintained utility right-of-way?

    No

30. Does the action include emergency cutting or trimming of hazard trees in order to remove an imminent threat to human safety or property? See hazard tree note at the bottom of the key for text that will be added to response letters

    Note: A "hazard tree" is a tree that is an immediate threat to lives, public health and safety, or improved property.

    No

31. Does the project intersect with the 0- 9.9% forest density category?

    Automatically answered
    No

32. Does the project intersect with the 10.0- 19.9% forest density category map?

    Automatically answered
    No

33. Does the project intersect with the 20.0- 29.9% forest density category map?

    Automatically answered
    No

34. Does the project intersect with the 30.0- 100% forest density category map?

    Automatically answered
    Yes

35. Will the action cause trees to be cut, knocked down, or otherwise brought down across an area greater than 100 acres in total extent?

    No

36. Will the proposed action result in the use of prescribed fire?

    Note: If the prescribed fire action includes other activities than application of fire (e.g., tree cutting, fire line preparation) please consider impacts from those activities within the previous representative questions in the key. This set of questions only considers impacts from flame and smoke.

    No

37. Does the action area intersect the northern long-eared bat species list area?

    Automatically answered
    Yes

38. [Semantic] Is the action area located within 0.5 miles of radius of an entrance/opening to any known NLEB hibernacula or winter roost? Note: The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your State wildlife agency.

    Automatically answered
    No

39. [Semantic] Is the action area located within 0.25 miles of a culvert that is known to be occupied by northern long-eared or tricolored bats? **Note:** The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your State wildlife agency.

    Automatically answered
    No

40. [Semantic] Is the action area located within 150 feet of a documented northern long-eared bat roost site?

    Note: The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your State wildlife agency.Have you contacted the appropriate agency to determine if your action is within 150 feet of any documented northern long-eared bat roosts?

    Note: A document with links to Natural Heritage Inventory databases and other state-specific sources of information on the locations of northern long-eared bat roosts is available here. Location information for northern long-eared bat roosts is generally kept in state natural heritage inventory databases – the availability of this data varies by state. Many states provide online access to their data, either directly by providing maps or by providing the opportunity to make a data request. In some cases, to protect those resources, access to the information may be limited.

    Automatically answered
    No

41. Is suitable summer habitat for the northern long-eared bat present within 1000 feet of project activities?
    If unsure, answer "Yes."

    Note: Additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in Appendix A of the USFWS' Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines at: https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines.

    Yes

42. Has a presence/probable absence summer bat survey targeting the northern long-eared bat following the Service's Range-wide Indiana Bat and Northern Long-Eared Bat Survey Guidelines been conducted within the project area?

    No

43. Are any of the trees proposed for cutting or other means of knocking down, bringing down, topping, or trimming suitable for northern long-eared bat roosting (i.e., live trees and/or snags ≥3 inches dbh that have exfoliating bark, cracks, crevices, and/or cavities)?

    Note: Additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in Appendix A of the USFWS' Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines at: https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines.

    Yes

44. Will any tree cutting/trimming or other knocking or bringing down of trees occur during the **Summer Occupancy season** for northern long-eared bats in the action area? **Note:** Bat activity periods for your state can be found in Appendix 2 of the Service's Northern long-eared Bat and Tricolored Bat Voluntary Environmental Review Process for Development Projects.

    No

45. Does the action area intersect the tricolored bat species list area?

    Automatically answered
    Yes

46. Is the action area located within 0.5-mile of radius of an entrance/opening to any known tricolored bat hibernacula or winter roost?

    Note: The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your state wildlife agency.

    Automatically answered
    No

47. [Semantic] Is the action area located within 0.25 miles of a culvert that is known to be occupied by northern long-eared or tricolored bats? **Note:** The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your State wildlife agency.

    Automatically answered
    No

48. Has a presence/probable absence bat survey targeting the tricolored bat and following the Service's Range-wide Indiana Bat and Northern Long-Eared Bat Survey Guidelines been conducted within the project area?

    No

49. Is suitable summer habitat for the tricolored bat present within 1000 feet of project activities?
(If unsure, answer ""Yes."")

    Note: If there are trees within the action area that may provide potential roosts for tricolored bats (e.g., clusters of leaves in live and dead deciduous trees, Spanish moss (Tillandsia usneoides), clusters of dead pine needles of large live pines) answer ""Yes."" For a complete definition of suitable summer habitat for the tricolored bat, please see Appendix A in the Service's Range-wide Indiana Bat and Northern long-eared Bat Survey Guidelines.

    Yes

50. Do any of the trees proposed for cutting or other means of knocking down, bringing down, topping, or trimming provide potential roosts for tricolored bats (e.g., clusters of leaves in live and dead deciduous trees, Spanish moss (*Tillandsia usneoides*), clusters of dead pine needles of large live pine trees)?

    Note: Additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in Appendix A of the USFWS' Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines at: https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines.

    Yes

51. Will any tree cutting/trimming or other knocking or bringing down of trees be conducted during the Pup Season for tricolored bat? **Note:** Bat activity periods for your state can be found in Appendix 2 of the Service's Northern Long-eared Bat and Tricolored Bat Voluntary Environmental Review Process for Developmental Projects.

    No

52. Do you have any documents that you want to include with this submission?

    No

PROJECT QUESTIONNAIRE

Enter the extent of the action area (in acres) from which trees will be removed - round up to the nearest tenth of an acre. For this question, include the entire area where tree removal will take place, even if some live or dead trees will be left standing.

3.5

IPAC USER CONTACT INFORMATION

Agency: West Liberty city
Name: Garver LLC
Address: 4300 South J.B Hunt Drive, Suite 240
Address Line 2: Suite 240
City: Rogers
State: AR
Zip: 72758
Email arbiologist@garverusa.com
Phone: 4792874628

LEAD AGENCY CONTACT INFORMATION

Lead Agency: Federal Aviation Administration

You have indicated that your project falls under or receives funding through the following special project authorities:

- BIPARTISAN INFRASTRUCTURE LAW (BIL) (OTHER)

Attachment C



Photo 1 – View of OW1. Downstream is to the right (southwest).

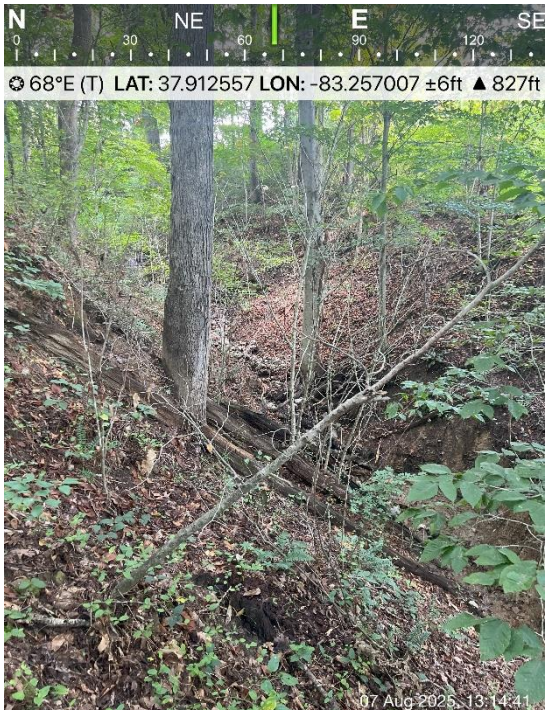


Photo 2 – View of OW1 looking upstream.



Photo 3 – View to the west of the Runway 7 end study area.



Photo 4 – View to the southwest of the Runway 7 end study area forested areas.

Attachment C



Photo 5 – View to the east, northeast of the Runway 25 end study area.



Photo 6 – View to the southeast of the Runway 25 end study area where trees 4, 5, and 6 as shown in the Plan Layout.



Photo 7 – View of the vegetation near trees 4, 5, and 6 within the Runway 25 end study area as shown in the Plan Layout. Dominant vegetation here included Japanese honeysuckle, Johnsongrass, Indianhemp, panicled ticktrefoil, Nepalese browntop, deertounge, and sumac.

Mountain, Ryan C.

From: DeGarmo, Phil <phil_degarmo@fws.gov>
Sent: Friday, May 1, 2026 1:15 PM
To: Mountain, Ryan C.; lopa.naik@faa.gov
Subject: Re: [EXTERNAL] RE: West Liberty Runway Obstruction project

Categories: Filed by Newforma

Thank you. Please retain these dkey responses as your concurrence from our office. No further coordination is required.

Sincerely,
Phil DeGarmo
USFWS Frankfort, KY

From: Mountain, Ryan C. <RCMountain@GarverUSA.com>
Sent: Friday, May 1, 2026 2:11 PM
To: DeGarmo, Phil <phil_degarmo@fws.gov>; lopa.naik@faa.gov <lopa.naik@faa.gov>
Subject: [EXTERNAL] RE: West Liberty Runway Obstruction project

This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.

Phil,
Thanks for your time this afternoon. Please see the attached updated Dkey results. Let me know if you have any questions.

Thanks!

Ryan Mountain, PWS
Garver
479-287-4628

From: DeGarmo, Phil <phil_degarmo@fws.gov>
Sent: Friday, May 1, 2026 12:05 PM
To: lopa.naik@faa.gov
Cc: Mountain, Ryan C. <RCMountain@GarverUSA.com>
Subject: West Liberty Runway Obstruction project

I left a message for Lopa but wanted to follow up with an email. If someone could call me so I can go over the dkeys for Virgina big-eared bat and Indiana bat that would be great. I believe that a couple of those answers could be changed with clarification and then a NLAA would be rendered and coordination would be complete.

Thank you,

Phil DeGarmo
USFWS Frankfort, KY
502-229-8830

APPENDIX C

Cultural Resources And Agency Coordination

ANDY BESHEAR
GOVERNOR

JACQUELINE COLEMAN
LT. GOVERNOR

TOURISM, ARTS AND HERITAGE CABINET
KENTUCKY HERITAGE COUNCIL
THE STATE HISTORIC PRESERVATION OFFICE
410 HIGH STREET
FRANKFORT, KENTUCKY 40601
(502) 564-7005
www.heritage.ky.gov

LINDY CASEBIER
SECRETARY

CRAIG A. POTTS
EXECUTIVE DIRECTOR &
STATE HISTORIC PRESERVATION OFFICER

October 8, 2025

Jerry Mays, Airport Board Chairman
West Liberty-Morgan County Airport Board
450 Prestonburg Street
West Liberty, KY 41472

RE: **Runway 7-25 Obstruction Removal, Focused Environmental Assessment request for information, West Liberty Airport, Morgan County, Kentucky**

Dear Mr. Mays,

Thank you for your digital submission of a letter, plans, and pictures for the above undertaking. We understand that the Federal Aviation Administration is the lead federal agency. Our office recognizes that the proposed project will consist of removing individual trees identified as obstructions at either end of Runway 7-25 to provide safe approaches for landing aircraft and for compliance with Code of Federal Regulation (CFR) Part 77 airspace regulations.

Based on the documentation provided, cultural resource survey is not warranted. In the unlikely event that human remains are found during construction for this project, work should cease immediately, and the county coroner and the Kentucky Heritage Council should be contacted.

We would concur with a determination of **No Historic Properties Affected** for this undertaking.

Should you have any questions or concerns, please feel free to contact Kimberly Busby or Ellis Codd of my staff at kimberly.busby@ky.gov or ellis.codd@ky.gov.

Sincerely,

Craig Potts
Executive Director and
State Historic Preservation Officer

KHC# 251977
CP: kb, ec
e.cc: Lopa Naik (FAA), Will Adams (Garver)

TEAM KENTUCKY TOURISM, ARTS AND HERITAGE CABINET
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APPENDIX D

Water Resources Review And Agency Coordination

4300 South J.B. Hunt Dr.
Suite 240
Rogers, AR 72758

TEL 479.257.9188

www.GarverUSA.com

September 9, 2025

Project File: 2402386

Re: West Liberty Airport – Obstruction Removal
West Liberty, Morgan County, Kentucky
Preliminary Wetland Delineation Technical Memo

This technical memorandum was prepared to document wetlands and streams within the project study area as noted below. Based on initial coordination with the U.S. Army Corps of Engineers (USACE), Louisville District, a Department of the Army (DA) permit application would be prepared if the project requires impacts to any waters of the U.S., including wetlands. No impacts to wetlands or streams are anticipated as no ground disturbance is proposed.

The West Liberty Airport (9I3) in West Liberty, Kentucky (**Figure 1**) is proposing a Runway 7-25 Obstruction Removal project. The purpose of the Proposed Action is to remove these obstructions that are penetrating the 20:1 Threshold Siting Surface (TSS) and Part 77 Approach Surface (AS) as shown in the attachments. The Airport needs to remove these obstructions to provide safe approaches for landing aircraft and for compliance with Code of Federal Regulation (CFR) Part 77 airspace regulations. Tree cutting will be by hand with chainsaws and stumps will be ground to existing grade.

Garver, LLC has been retained to conduct a wetland delineation and develop National Environmental Policy Act (NEPA) documents under direction of the Federal Aviation Administration (FAA), which is the lead federal agency. This wetland delineation report summarizes our investigation and documents our findings in support of the NEPA document.

Regulatory Basis

Discharges of dredged or fill material into Waters of the United States are regulated under Section 404 of the Clean Water Act. Any such action proposed in wetlands or other Waters of the U.S. are subject to review by the U.S. Army Corps of Engineers (USACE) and other federal and state agencies and require authorization by USACE. For jurisdictional purposes, USACE and the U.S. Environmental Protection Agency (EPA) jointly define wetlands as follows: *Those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas (USACE 1987)*. Other Waters were those delineated watercourses (streams) that exhibited Ordinary High Water Marks (OHWMs).

Methodology

The U.S. Fish and Wildlife Service (USFWS) in cooperation with Cowardin, et al. (1979), have identified a classification system that is widely accepted by the USACE in relation to classifying wetland and stream habitats (i.e., Classification of Wetlands and Deepwater Habitats of the United States). Any wetlands and streams in the study area have been identified utilizing the methodology presented in this classification

system. Observation data points (OBs) were collected at 2 locations to document the wetland and upland characteristics observed on the site. No formal data points for wetland determinations were made; however, observation points documented vegetation and surface hydrology in accordance with the routine approach described in the USACE Wetland Delineation Manual (1987) and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Eastern Mountains and Piedmont (Version 2.0).

Prior to the site visit, Garver performed a desktop review of the approximately 9-acre study area (split between the Runway 7 end and Runway 25 end as shown in the attached figures. The review included the USFWS National Wetlands Inventory (NWI), U.S. Geological Survey (USGS) topographic quadrangle maps, light detection and ranging (LiDAR) GIS data, and the National Hydrography Database (NHD) for the presence of streams and other waterbodies. Federal Emergency Management Agency (FEMA) Floodplain data and Natural Resources Conservation Service (NRCS) soil data were also reviewed. According to the NRCS Web Soil Survey, three soil map units exist within the study area. Marrowbone-Gilpin-Latham complex, 15 to 30 percent slopes, Shelocta-Gilpin complex, 20 to 65 percent slopes, and Udorthents, 0 to 6 percent slopes are described by NRCS as moderately to well drained and non-hydric (**Figure 3**). The NWI Mapper exhibited no wetlands or streams within the study area (**Figure 4**). A very small amount of FEMA floodplains are present in the study area but will not be affected by the project (**Figure 5**).

A site visit was conducted August 7, 2025. According to the nearest weather station (US1KYFY0046) located at Lexington International Airport (LEX), 1.86 inches of rain occurred within the previous week of the site visit; however, a total of 2.31 inches of rain occurred within the previous 2 weeks. Much of both ends of the runway have experienced historic disturbance with the exception of the mature forested areas from which most of the tree clearing will occur. This and other historic development (i.e., roads and residences) may have altered natural hydrology in the area. The topography at both ends of the runway is very steep and not conducive to wetland formation but does include one ephemeral stream. The current conditions on the site appeared to be normal for maintained airport property and residential areas, and undeveloped forested areas on steep slopes.

Results

No wetlands (W) and one ephemeral to intermittent stream reach (other waters, or OW) were identified within the study area (**Figure 6**). OW 1 was ephemeral in nature and exhibited shallow Ordinary High Water Marks (OHWMs) characterized by lack of vegetation and due to flashy flows. OW 1 is not mapped by USGS; however, it showed slight evidence of sediment sorting with lack of bank vegetation at the toe of slope of the channel suggesting it transitions from ephemeral (upstream) to intermittent (downstream) within the Runway 7 end project study area. The stream reach appears to begin adjacent to Dogwood Lane and continues outside the study area before coming back into the study area due to the shape of the study area. The stream substrate consists of a mix of smaller gravel with larger cobble located upstream, and the average OHWMs are 4 feet wide by 4 to 6 inches deep. No pools or flow were observed within the stream reach. Riparian vegetation included white oak (*Quercus alba*), tulip poplar (*Liriodendron tulipifera*), dogwood (*Cornus* species), hornbeam (*Carpinus caroliniana*), sugar maple (*Acer saccharum*), and christmas fern (*Polystichum acrostichoides*). Approximately 250 LF or 0.023 ac of OW 1 occur in the study area.

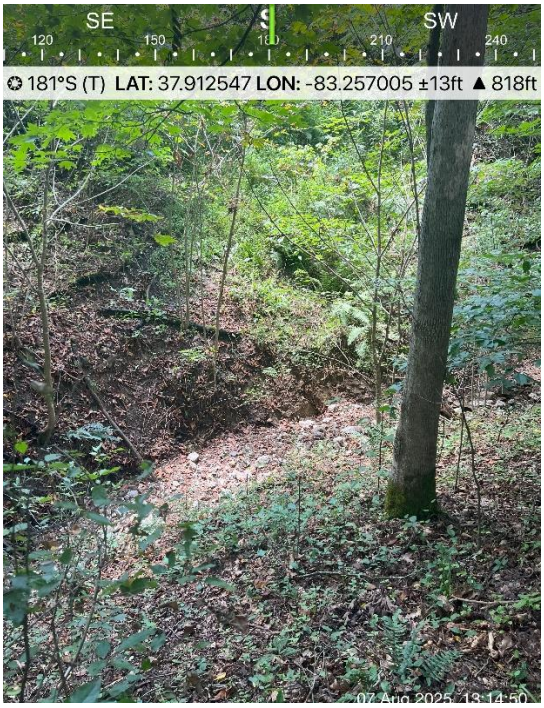


Photo 1 – View of OW1. Downstream is to the right (southwest). Area of OB 1.

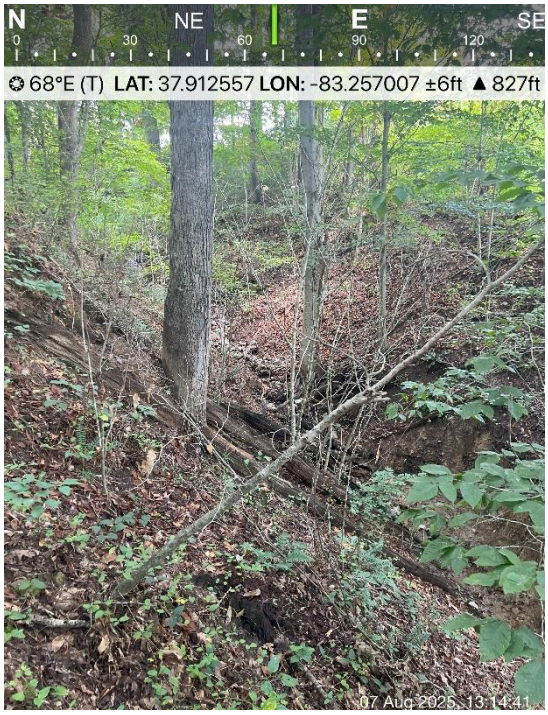


Photo 2 – View of OW1 looking upstream.



Photo 3 – View to the west of the Runway 7 end study area.



Photo 4 – View to the southwest of the Runway 7 end study area forested areas.



Photo 5 – View to the east, northeast of the Runway 25 end study area.



Photo 6 – View to the southeast of the Runway 25 end study area where trees 4, 5, and 6 are located from Figure 2. This is the area of OB 2.



Photo 7 – View to the vegetation near trees 4, 5, and 6 (OB 2) within the Runway 25 end study area. Dominant vegetation here included Japanese honeysuckle, Johnsongrass, Indianhemp, panicled ticktrefoil, napalese browntop, deertounge, and sumac.

Conclusion

As described in this report, a total of 250 LF or 0.023 ac of other waters were identified within the Runway 7 end study area. No wetlands or other waters were observed within the Runway 25 end study area. Based on initial coordination with the USACE (see attached) a DA permit application would be prepared if the project requires impacts to any waters of the U.S., including wetlands. As no ground disturbance is proposed with this undertaking, no Section 404 permit will be required. Trees felled will remain in uplands or removed.

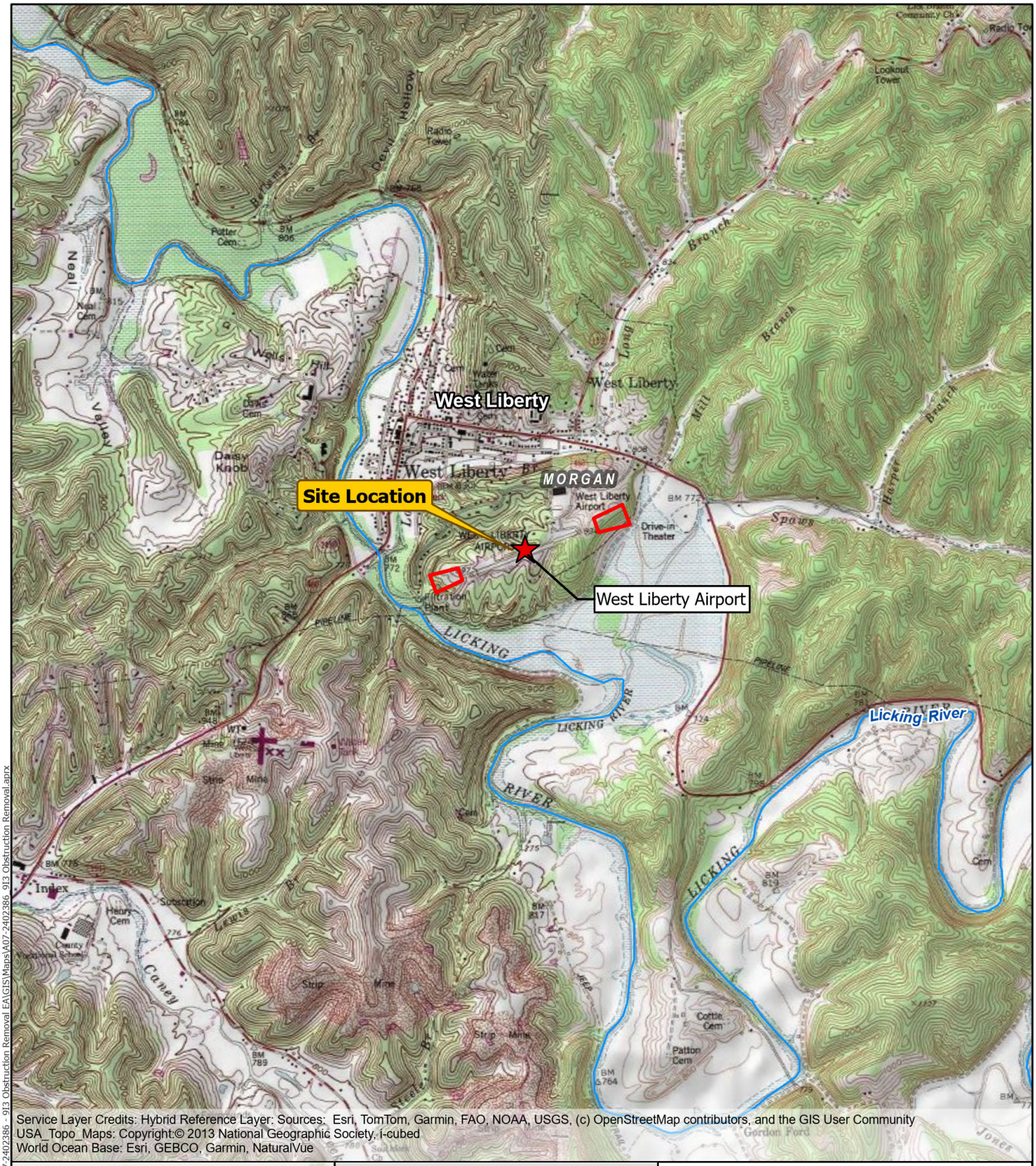
Enclosed with this wetland report are several attachments to document our findings, including site maps, data forms, and weather data.

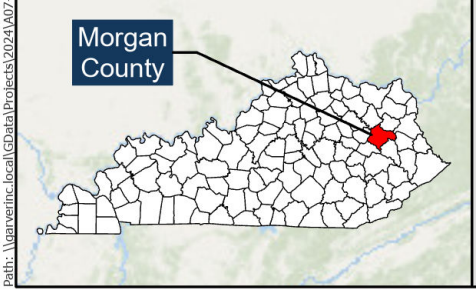
GARVER

Ryan Mountain, PWS
Environmental Project Manager

cc: Will Adams, PE – Garver

Attachments:
Figure 1 – Site Location Map
Figure 2 – Project Layout
Figure 3 – NRCS Soils Information
Figure 4 – USFWS NWI Map
Figure 5 – FEMA Map
Figure 6 – Aquatic Resources Map
Observation Data Forms
Weather Data and ATP Results
USACE Initial Response





Site Location

APE/Direct Study Area

APPENDIX A - SITE LOCATION MAP

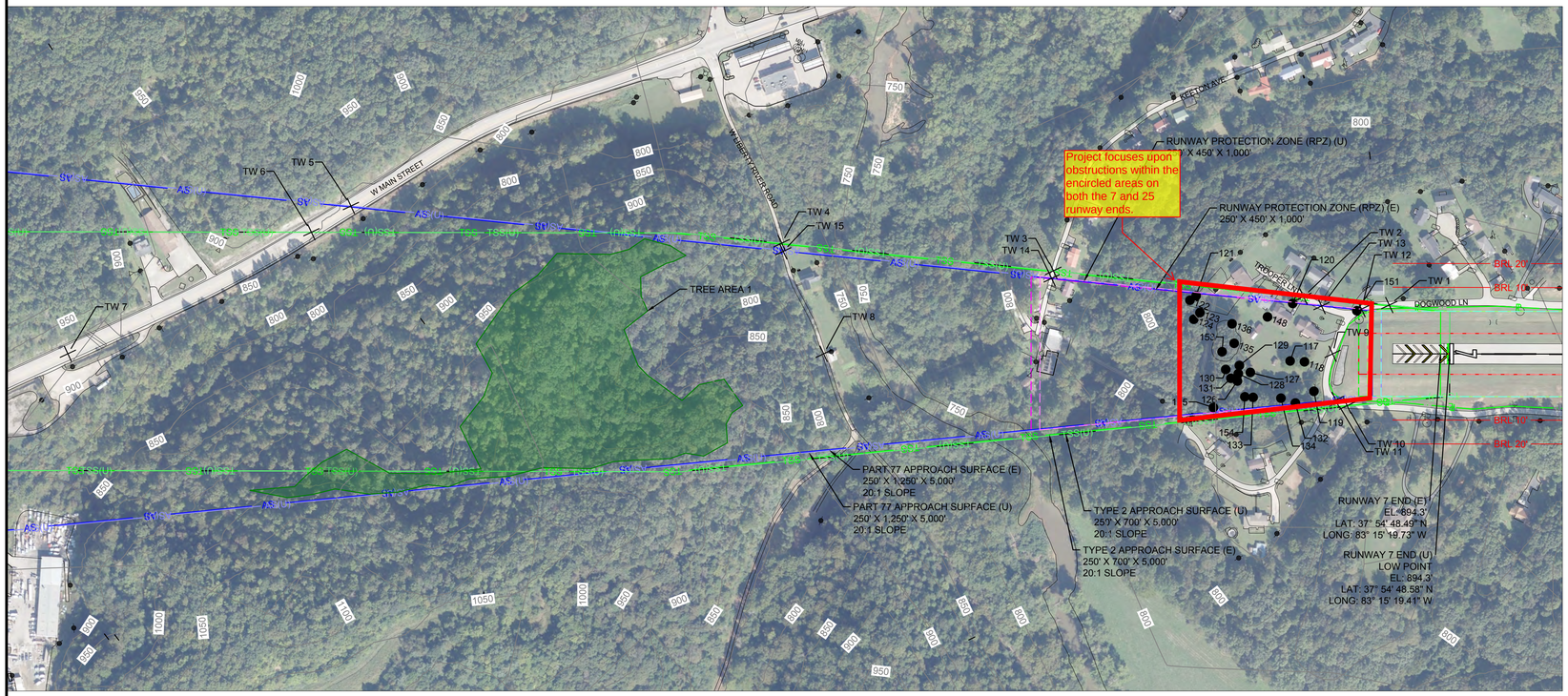
West Liberty Airport (9I3)
Runway 7-25
Obstruction Removal

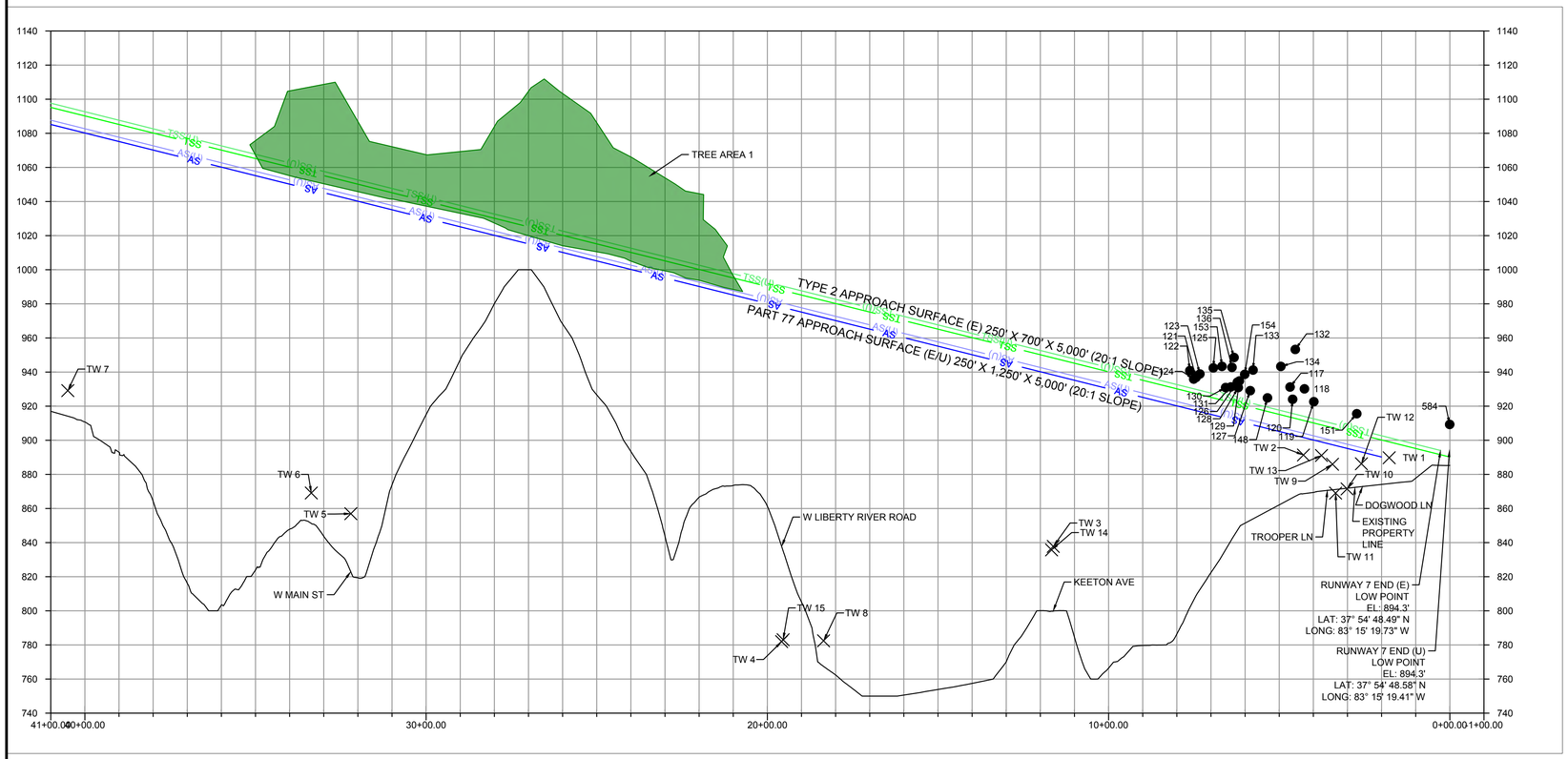
N

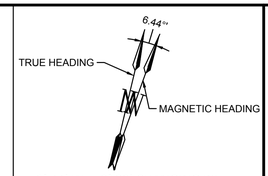
0 0.25 0.5 1

Miles

Path: \\garverinc.local\GData\Projects\2024\A07-2402386 - 913 Obstruction Removal EA\GIS\Maps\A07-2402386_913 Obstruction Removal.aprx







NOTES:

1. VERTICAL EXAGERATION IS 5' IN THE PROFILE.
2. OBSTRUCTION SURVEY WAS COMPLETED IN DECEMBER 2021.
3. FOR ULTIMATE PART 77 SURFACE OBSTRUCTIONS, SEE AIRSPACE DRAWING.
4. ALL TRAVERSE WAY CLEARANCES HAVE BEEN ADJUSTED FOR HEIGHT OF NATURAL OBJECTS, 10' FOR PRIVATE ROADS, 15' FOR PUBLIC ROADS, 17' FOR INTERSTATE HIGHWAYS, 23' FOR RAILROADS.
5. TOPOGRAPHIC CONTOURS ARE AT 50' INTERVALS DUE TO STEEP TOPOGRAPHY AROUND THE AIRPORT.
6. TW STAND FOR TRAVERSE WAY.
7. NO FUTURE DEVELOPMENT SHOWN IN APPROACH AREA.

THE PREPARATION OF THESE DOCUMENTS WAS FINANCED IN PART THROUGH A PLANNING GRANT FROM THE FEDERAL AVIATION ADMINISTRATION AS PROVIDED UNDER SECTION 505 OF THE AIRPORT AND AIRWAY IMPROVEMENT ACT OF 1982, AS AMENDED. THE CONTENTS DO NOT NECESSARILY REFLECT THE OFFICIAL VIEWS OR POLICY OF THE FAA. ACCEPTANCE OF THESE DOCUMENTS BY THE FAA DOES NOT IN ANY WAY CONSTITUTE A COMMITMENT ON THE PART OF THE UNITED STATES TO PARTICIPATE IN ANY DEVELOPMENT DEPICTED HEREIN NOR DOES IT INDICATE THAT THE PROPOSED DEVELOPMENT IS ENVIRONMENTALLY ACCEPTABLE IN ACCORDANCE WITH APPROPRIATE PUBLIC LAWS.

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TITLE, AIRPORT SPONSOR'S REPRESENTATIVE

SIGNATURE DATE

FEDERAL AVIATION ADMINISTRATION APPROVAL BLOCK

LEGEND

ITEM	EXISTING	ULTIMATE
BUILDING RESTRICTION LINE	BRL 35'	BRL 35'
AIRPORT PROPERTY LINE	P	P(U)
FENCE	X	XX
AIRFIELD PAVEMENT		
PAVEMENT REMOVAL		
BEACON		
FUEL STORAGE AND PUMPS		SAME
BUILDINGS		
LIGHTED WIND CONE & SEGMENTED CIRCLE		
AWOS		
GROUND CONTOURS	680	SAME
PRECISION APPROACH PATH INDICATOR (PAPI)		
THRESHOLD LIGHTS		
RUNWAY PROTECTION ZONE (RPZ)		
RUNWAY SAFETY AREA (RSA)		
RUNWAY OBJECT FREE AREA (OFA)		
RUNWAY OBSTACLE FREE ZONE (OFZ)		
TAXIWAY SAFETY AREA (TSA)		SAME
TAXIWAY OBJECT FREE AREA (TOFA)		SAME
PART 77 APPROACH SURFACE	AS	AS (U)
DEPARTURE SURFACE	DEP	DEP (U)
GLIDE SLOPE QUALIFICATION SURFACE	VGS	VGS (U)
THRESHOLD SITING SURFACE	TSS	TSS (U)
HOLDLINES & SIGNS		
AIRPORT REFERENCE POINT (ARP)		
VEGETATION		SAME

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REV	DATE	DESCRIPTION	BY

WEST LIBERTY AIRPORT
WEST LIBERTY, KENTUCKY

WEST LIBERTY AIRPORT
LAYOUT PLAN

Inner Portion of Approach Surface Drawing 7

JOB NO.: 21A14220
DATE: AUGUST 2023
DESIGNED BY: NRP
DRAWN BY: JJL

BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

APPENDIX A - PROJECT LAYOUT EXHIBIT (RW 7 END)

SHEET NUMBER

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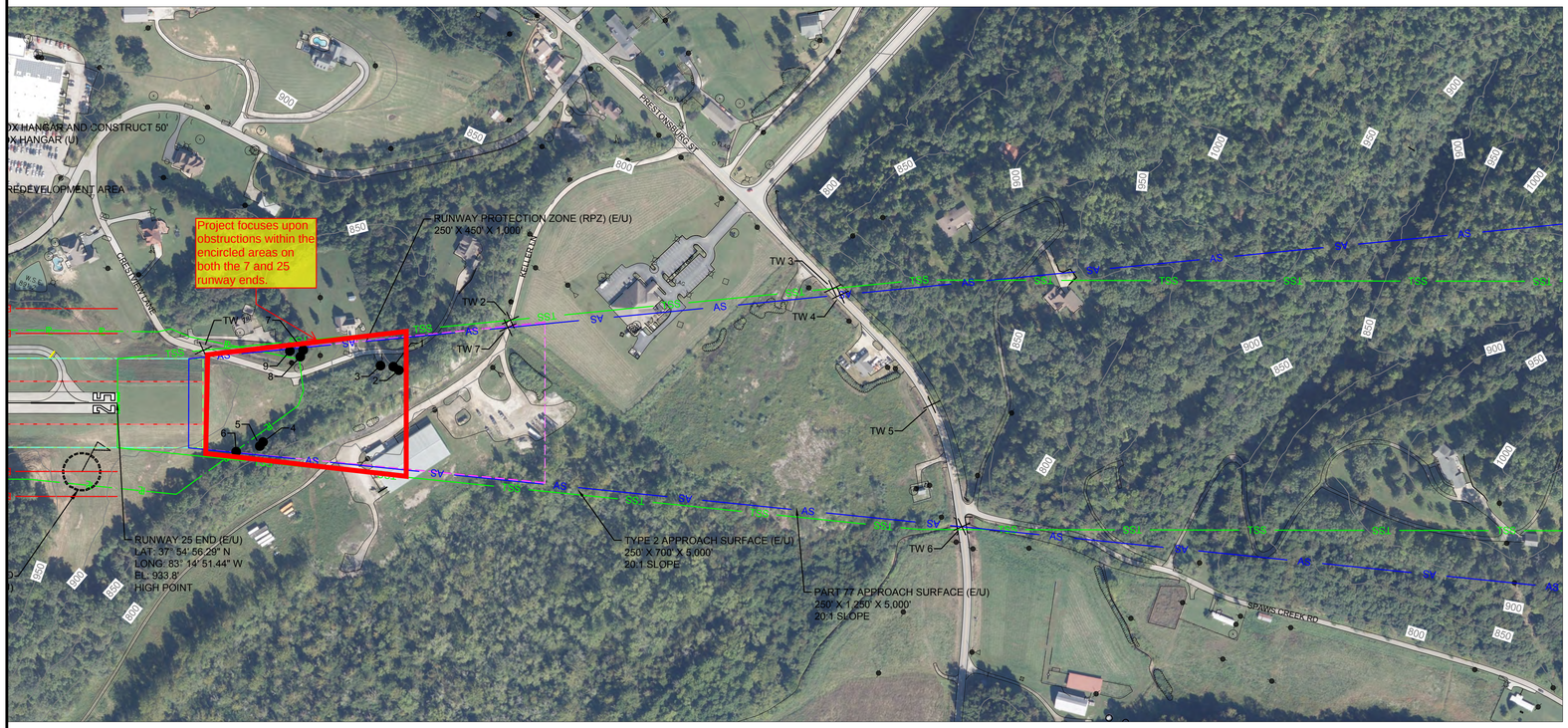
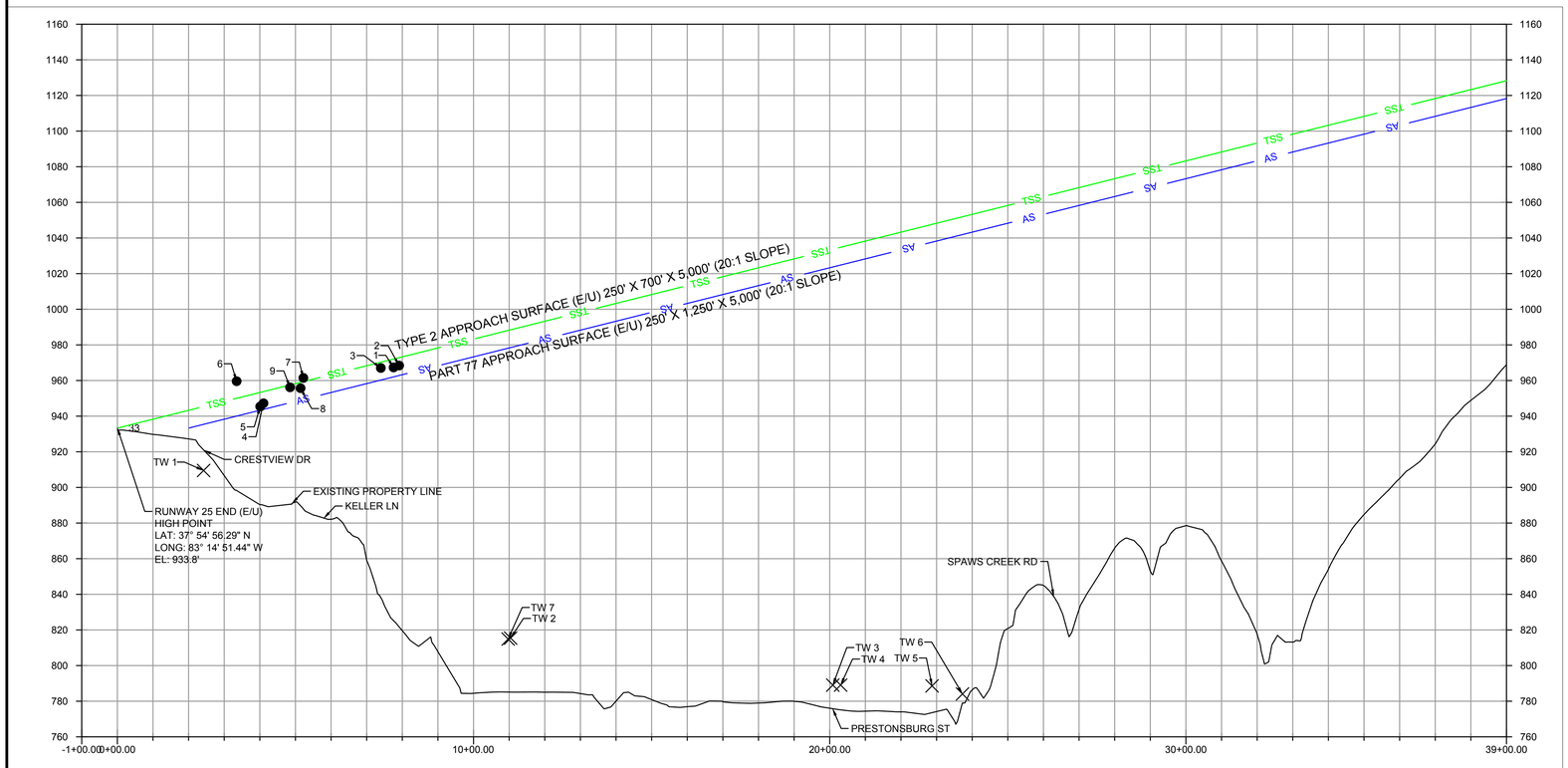
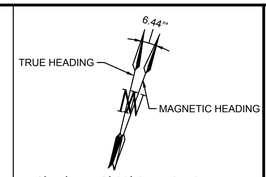
Last plotted by: Lithell, Jacob J. Plot Style: AECtonno.ctb Plot Scale: 1:1 Plot Date: 8/14/2023 3:35 PM Plotter used: AutoCAD PDF (General Documentation).pc3







6° 44' W ± 0° 22' CHANGING BY
0° 3' W PER YEAR (JULY 2023)

0 100' 200' 400' 600'

(IN FEET)

NOTES:

1. VERTICAL EXAGERATION IS 5' IN THE PROFILE.
2. OBSTRUCTION SURVEY WAS COMPLETED ON DECEMBER 2021.
3. ALL TRAVERSE WAY CLEARANCES HAVE BEEN ADJUSTED FOR HEIGHT OF NATURAL OBJECTS, 10' FOR PRIVATE ROADS, 15' FOR PUBLIC ROADS, 17' FOR INTERSTATE HIGHWAYS, 23' FOR RAILROADS.
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FENCE	X	XX
AIRFIELD PAVEMENT		
PAVEMENT REMOVAL		
BEACON		
FUEL STORAGE AND PUMPS		SAME
BUILDINGS		
LIGHTED WIND CONE & SEGMENTED CIRCLE		
AWOS		
GROUND CONTOURS	680	SAME
PRECISION APPROACH PATH INDICATOR (PAPI)		
THRESHOLD LIGHTS		
RUNWAY PROTECTION ZONE (RPZ)		
RUNWAY SAFETY AREA (RSA)		
RUNWAY OBJECT FREE AREA (OFA)		
RUNWAY OBSTACLE FREE ZONE (OFZ)		
TAXIWAY SAFETY AREA (TSA)		SAME
TAXIWAY OBJECT FREE AREA (TOFA)		SAME
PART 77 APPROACH SURFACE	AS	AS (U)
DEPARTURE SURFACE	DEP	DEP (U)
GLIDE SLOPE QUALIFICATION SURFACE	VGS	VGS (U)
THRESHOLD SITING SURFACE	TSS	TSS (U)
HOLDLINES & SIGNS		
AIRPORT REFERENCE POINT (ARP)		
VEGETATION		SAME

REV.	DATE	DESCRIPTION	BY

WEST LIBERTY AIRPORT
WEST LIBERTY, KENTUCKY

WEST LIBERTY AIRPORT
LAYOUT PLAN

Inner Portion of Approach Surface Drawing 25

JOB NO.: 21A14220
DATE: AUGUST 2023
DESIGNED BY: NRP
DRAWN BY: JJL

BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

APPENDIX A - PROJECT LAYOUT EXHIBIT (RW 25 END)

SHEET NUMBER

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Last plotted by: Littrell, Jacob J. Plot Style: AEChrono.ctb Plot Scale: 1:1 Plot Date: 8/14/2023 3:37 PM Plotter used: AutoCAD PDF (General Documentation).pc3

Hydric Rating by Map Unit—Magoffin and Morgan Counties, Kentucky
(9I3 Obstruction Removal)

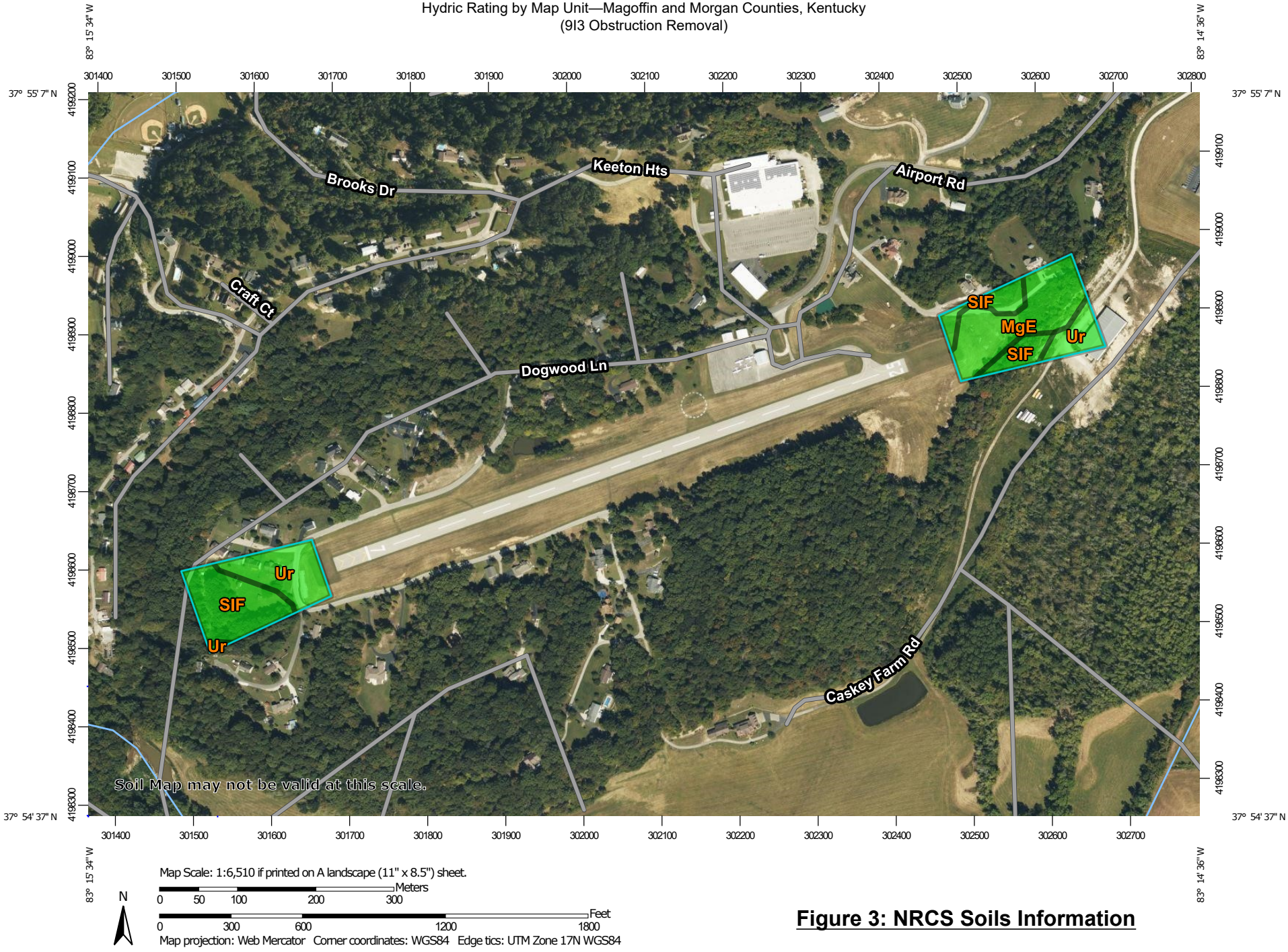


Figure 3: NRCS Soils Information

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

Soil Rating Polygons

- Hydric (100%)
- Hydric (66 to 99%)
- Hydric (33 to 65%)
- Hydric (1 to 32%)
- Not Hydric (0%)
- Not rated or not available

Soil Rating Lines

- Hydric (100%)
- Hydric (66 to 99%)
- Hydric (33 to 65%)
- Hydric (1 to 32%)
- Not Hydric (0%)
- Not rated or not available

Soil Rating Points

- Hydric (100%)
- Hydric (66 to 99%)
- Hydric (33 to 65%)
- Hydric (1 to 32%)
- Not Hydric (0%)
- Not rated or not available

Water Features

- Streams and Canals

Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background

- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Magoffin and Morgan Counties, Kentucky
Survey Area Data: Version 20, Aug 30, 2024

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Aug 29, 2019—Sep 15, 2019

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydric Rating by Map Unit

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
MgE	Marrowbone-Gilpin-Latham complex, 15 to 30 percent slopes	0	2.9	32.7%
SlF	Shelocta-Gilpin complex, 20 to 65 percent slopes, stony	0	3.5	39.0%
Ur	Udorthents, loamy, 0 to 6 percent slopes	0	2.5	28.3%
Totals for Area of Interest			**8.9**	**100.0%**

U.S. Fish and Wildlife Service
National Wetlands Inventory

Figure 4: USFWS NWI Map
(RW 7 End)



May 29, 2025

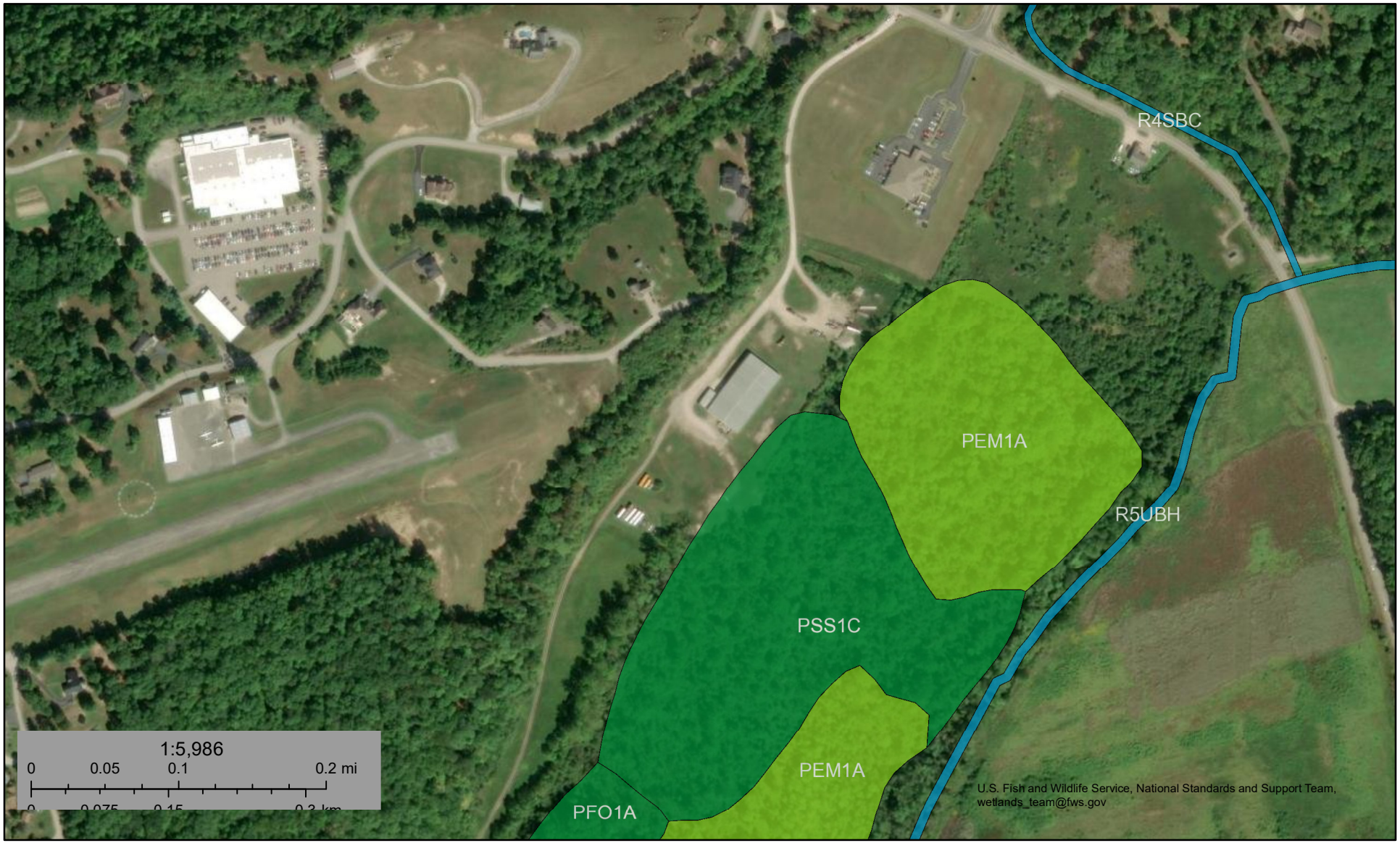
Wetlands

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

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

U.S. Fish and Wildlife Service
National Wetlands Inventory

Figure 4: USFWS NWI Map
(RW 25 End)



May 29, 2025

Wetlands

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

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

National Wetlands Inventory (NWI)
This page was produced by the NWI mapper

National Flood Hazard Layer FIRMette

FEMA

Figure 5: FEMA Map (RW 7 End)

83°15'45"W 37°55'N



0 250 500 1,000 1,500 2,000 Feet

1:6,000

83°15'8"W 37°54'32"N

Basemap Imagery Source: USGS National Map 2023

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 / 17.5 Cross Sections with 1% Annual Chance / Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 5/29/2025 at 5:50 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

National Flood Hazard Layer FIRMette

FEMA

Figure 5: FEMA Map (RW 25 End)

83°15'4"W 37°55'13"N



83°14'27"W 37°54'44"N

0 250 500 1,000 1,500 2,000 Feet

1:6,000

Basemap Imagery Source: USGS National Map 2023

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 Cross Sections with 1% Annual Chance
- 17.5 Water Surface Elevation
- Coastal Transect
- 513 Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 5/29/2025 at 5:51 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.


Keeton Ave
Keeton Heights
Keeton Ave
Crestview Dr
West Liberty Airport
OB 2
25
Runway 7-25
Dogwood Ln
7
Dogwood Ln
OB 1
OW 1
Sugar Maple Ln
Licking River
Service Layer Credits: World Imagery: Maxar
World Ocean Base: Esri, GEBCO, Garmin, NaturalVue
Morgan County
Direct Study Area
Freshwater Emergent Wetland
Freshwater Forested/Shrub Wetland
Freshwater Pond
Riverine
River
Figure 6: Aquatic Resources
9I3 Obstruction Removal
Morgan County, Kentucky
N
0
250
500
1,000
Feet
Path: L:\2024\A07-2402386 - 9I3 Obstruction Removal EA\GIS\Maps\A07-2402386_9I3 Obstruction Removal.aprx

U.S. Army Corps of Engineers
WETLAND DETERMINATION DATA SHEET – Eastern Mountains and Piedmont Region
See ERDC/EL TR-12-9; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 9/30/2027
Requirement Control Symbol EXEMPT:
(Authority: AR 335-15, paragraph 5-2a)

Project/Site: 9I3 Obstruction Removal City/County: West Liberty / Morgan Sampling Date: 8/7/2025
Applicant/Owner: West Liberty Airport State: KY Sampling Point: OB 1
Investigator(s): Ryan Mountain Section, Township, Range:
Landform (hillside, terrace, etc.): Depression Local relief (concave, convex, none): Convex Slope (%): 25
Subregion (LRR or MLRA): LRR N, MLRA 124 Lat: 37.912703° Long: -83.256754° Datum: WGS 1984
Soil Map Unit Name: Shelocta-Gilpin Complex, 20 to 65 percent slopes NWI classification: n/a
Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ No X (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ____	No X	**Is the Sampled Area within a Wetland?** **Yes** ____ **No** X
Hydric Soil Present?	Yes ____	No X	
Wetland Hydrology Present?	Yes ____	No X	

Remarks:
Site does not meet all three wetland criteria. Anticedent precipitation tool indicated wetter than normal conditions.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ____	No X	Depth (inches): ____
Water Table Present?	Yes ____	No ____	Depth (inches): ____
Saturation Present? (includes capillary fringe)	Yes ____	No ____	Depth (inches): ____

Wetland Hydrology Present? **Yes** ____ **No** X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
Site does not meet hydrology criteria.

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: OB 1

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1. *Quercus alba*	50	Yes	FACU
2. *Fagus grandifolia*	20	Yes	FACU
3.			
4.			
5.			
6.			
7.			
	70	=Total Cover	
50% of total cover: 35		20% of total cover:	14

Sapling/Shrub Stratum (Plot size: 15)			
1. *Fagus grandifolia*	50	Yes	FACU
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
	50	=Total Cover	
50% of total cover: 25		20% of total cover:	10

Herb Stratum (Plot size: 5')			
1. *Polystichum acrostichoides*	5	Yes	FACU
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
	5	=Total Cover	
50% of total cover: 3		20% of total cover:	1

Woody Vine Stratum (Plot size: 30)			
1.			
2.			
3.			
4.			
5.			
		=Total Cover	
50% of total cover:		20% of total cover:	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species	x 1 =
FACW species	x 2 =
FAC species	x 3 =
FACU species	x 4 =
UPL species	x 5 =
Column Totals: (A)	(B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Four Vegetation Strata:

Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody Vine – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** ___ **No** X

Remarks: (Include photo numbers here or on a separate sheet.)
Site does not meet hydrophytic vegetation criteria.

SOIL

Sampling Point: OB 1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10) **(LRR N)**
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Iron Monosulfide (A18)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) **(MLRA 147, 148)**
- ___ Thin Dark Surface (S9) **(MLRA 147, 148)**
- ___ Loamy Mucky Mineral (F1) **(MLRA 136)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Iron-Manganese Masses (F12) **(LRR N, MLRA 136)**
- ___ Umbric Surface (F13) **(MLRA 122, 136)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 148)**
- ___ Red Parent Material (F21) **(MLRA 127, 147, 148)**

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) **(MLRA 147)**
- ___ Coast Prairie Redox (A16) **(MLRA 147, 148)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 136, 147)**
- ___ Red Parent Material (F21) **(outside MLRA 127, 147, 148)**
- ___ Very Shallow Dark Surface (F22)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** ___ **No** X

Remarks:

No soil pit dug. The area did not meet surface hydrology or hydrophytic plant criteria.

U.S. Army Corps of Engineers
WETLAND DETERMINATION DATA SHEET – Eastern Mountains and Piedmont Region
See ERDC/EL TR-12-9; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 9/30/2027
Requirement Control Symbol EXEMPT:
(Authority: AR 335-15, paragraph 5-2a)

Project/Site: 9I3 Obstruction Removal City/County: West Liberty / Morgan Sampling Date: 8/7/2025
Applicant/Owner: West Liberty Airport State: KY Sampling Point: OB 2
Investigator(s): Ryan Mountain Section, Township, Range:
Landform (hillside, terrace, etc.): Depression Local relief (concave, convex, none): Convex Slope (%): 25
Subregion (LRR or MLRA): LRR N, MLRA 124 Lat: 37.915837 Long: -83.246202 Datum: WGS 1984
Soil Map Unit Name: Marrowbone-Gilpin-Latham Complex, 15 to 30 percent slopes NWI classification: n/a
Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ No X (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ____	No X	**Is the Sampled Area within a Wetland?** **Yes** ____ **No** X
Hydric Soil Present?	Yes ____	No ____	
Wetland Hydrology Present?	Yes ____	No X	

Remarks:
Site does not meet all three wetland criteria. Anticedent precipitation tool indicated wetter than normal conditions.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ____	No X	Depth (inches): ____
Water Table Present?	Yes ____	No ____	Depth (inches): ____
Saturation Present? (includes capillary fringe)	Yes ____	No ____	Depth (inches): ____

Wetland Hydrology Present? **Yes** ____ **No** X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
Site does not meet hydrology criteria.

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: OB 2

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1. *Liriodendron tulipifera*	20	Yes	FACU
2. *Cercis canadensis*	15	Yes	FACU
3.			
4.			
5.			
6.			
7.			
	35	=Total Cover	
50% of total cover: 18		20% of total cover:	7
Sapling/Shrub Stratum (Plot size: 15)			
1. *Rhus glabra*	25	Yes	UPL
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
	25	=Total Cover	
50% of total cover: 13		20% of total cover:	5
Herb Stratum (Plot size: 5')			
1. *Sorghum halapense*	20	No	FACU
2. *Apocynum cannabinum*	10	No	FACU
3. *Microstegium vimineum*	30	Yes	FAC
4. *Dichanthelium clandestinum*	30	Yes	FAC
5. *Desmodium paniculatum*	20	No	FACU
6.			
7.			
8.			
9.			
10.			
11.			
	110	=Total Cover	
50% of total cover: 55		20% of total cover:	22
Woody Vine Stratum (Plot size: 30)			
1. *Lonicera japonica*	20	Yes	FACU
2. *Vitis cinerea*	10	Yes	FACW
3.			
4.			
5.			
	30	=Total Cover	
50% of total cover: 15		20% of total cover:	6

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 7 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 42.9% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species	x 1 =
FACW species	x 2 =
FAC species	x 3 =
FACU species	x 4 =
UPL species	x 5 =
Column Totals: (A)	(B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Four Vegetation Strata:

Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody Vine – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** ___ **No** X

Remarks: (Include photo numbers here or on a separate sheet.)
Site does not meet hydrophytic vegetation criteria.

SOIL

Sampling Point: OB 2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10) **(LRR N)**
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Iron Monosulfide (A18)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) **(MLRA 147, 148)**
- ___ Thin Dark Surface (S9) **(MLRA 147, 148)**
- ___ Loamy Mucky Mineral (F1) **(MLRA 136)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Iron-Manganese Masses (F12) **(LRR N, MLRA 136)**
- ___ Umbric Surface (F13) **(MLRA 122, 136)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 148)**
- ___ Red Parent Material (F21) **(MLRA 127, 147, 148)**

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) **(MLRA 147)**
- ___ Coast Prairie Redox (A16) **(MLRA 147, 148)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 136, 147)**
- ___ Red Parent Material (F21) **(outside MLRA 127, 147, 148)**
- ___ Very Shallow Dark Surface (F22)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** ___ **No** X

Remarks:

No soil pit dug. The area did not meet surface hydrology or hydrophytic plant criteria.

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service

Record of Climatological Observations

These data are quality controlled and may not be identical to the original observations.

Generated on 09/01/2025

National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Current Location: Elev: 1013 ft. Lat: 38.0055° N Lon: 84.4206° W

Station: **LEXINGTON 5.1 ESE, KY US US1KYFY0046**

Observation Time Temperature: Unknown Observation Time Precipitation: Unknown

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		"Soil Temperature (F)"					
			"24 Hrs. Ending at Observation Time"			24 Hour Amounts Ending at Observation Time				At Obs. Time			4 in. Depth			8 in. Depth		
			Max.	Min.	At Obs.	Rain, Melted Snow, Etc. (in)	Flag	Snow, Ice Pellets, Hail (in)	Flag	Snow, Ice Pellets, Hail, Ice on Ground (in)	24 Hour Wind Movement (mi)	Amount of Evap. (in)	Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2025	07	01				0.01												
2025	07	02				0.36												
2025	07	03				0.00		0.0										
2025	07	04				0.00		0.0										
2025	07	05				0.00		0.0										
2025	07	06				0.00		0.0										
2025	07	07				0.00		0.0										
2025	07	08				0.01												
2025	07	09				0.22												
2025	07	10				0.00		0.0										
2025	07	11				0.01												
2025	07	12				0.03												
2025	07	13				0.15												
2025	07	14				0.20												
2025	07	15				0.01												
2025	07	16				0.00		0.0										
2025	07	17				0.16												
2025	07	18				0.02												
2025	07	19				0.02												
2025	07	20				0.01												
2025	07	21				0.36												
2025	07	22				0.00		0.0										
2025	07	23				0.00		0.0										
2025	07	24				0.00		0.0										
2025	07	25				0.00		0.0										
2025	07	26				0.00		0.0										
2025	07	27				0.32												
2025	07	28				0.00		0.0										
2025	07	29				0.13												
2025	07	30				0.00		0.0										
2025	07	31				0.00		0.0										
		Summary	0	0		2.02												

Empty, or blank, cells indicate that a data observation was not reported.

*Ground Cover: 1=Grass; 2=Fallow; 3=Bare Ground; 4=Brome grass; 5=Sod; 6=Straw mulch; 7=Grass muck; 8=Bare muck; 0=Unknown

"s" This data value failed one of NCEI's quality control tests. "At Obs." = Temperature at time of observation

"T" values in the Precipitation or Snow category above indicate a "trace" value was recorded.

"A" values in the Precipitation Flag or the Snow Flag column indicate a multiday total, accumulated since last measurement, is being used.

Data value inconsistency may be present due to rounding calculations during the conversion process from SI metric units to standard imperial units.

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service

Record of Climatological Observations

These data are quality controlled and may not be identical to the original observations.

Generated on 09/01/2025

National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Current Location: Elev: 1013 ft. Lat: 38.0055° N Lon: 84.4206° W

Station: **LEXINGTON 5.1 ESE, KY US US1KYFY0046**

Observation Time Temperature: Unknown Observation Time Precipitation: Unknown

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		"Soil Temperature (F)"					
			"24 Hrs. Ending at Observation Time"			24 Hour Amounts Ending at Observation Time				At Obs. Time			4 in. Depth			8 in. Depth		
			Max.	Min.	At Obs.	Rain, Melted Snow, Etc. (in)	Flag	Snow, Ice Pellets, Hail (in)	Flag	Snow, Ice Pellets, Hail, Ice on Ground (in)	24 Hour Wind Movement (mi)	Amount of Evap. (in)	Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2025	08	01				0.91												
2025	08	02				0.00		0.0										
2025	08	03				0.00		0.0										
2025	08	04				0.00		0.0										
2025	08	05				0.04												
2025	08	06				0.70												
2025	08	07				0.21												
2025	08	08				0.00		0.0										
2025	08	09				0.00		0.0										
2025	08	10				0.00		0.0										
2025	08	11				0.00		0.0										
2025	08	12				0.00		0.0										
2025	08	13				0.00		0.0										
2025	08	14				0.04												
2025	08	15				0.00		0.0										
2025	08	16				0.35												
2025	08	17				0.00		0.0										
2025	08	18				0.00		0.0										
2025	08	19				0.00		0.0										
2025	08	20				0.00		0.0										
2025	08	21				0.00		0.0										
2025	08	22				0.00		0.0										
2025	08	23				0.00		0.0										
2025	08	24																
2025	08	25																
2025	08	26																
2025	08	27																
2025	08	28																
2025	08	29																
2025	08	30																
2025	08	31																
		Summary	0	0		2.25												

Empty, or blank, cells indicate that a data observation was not reported.

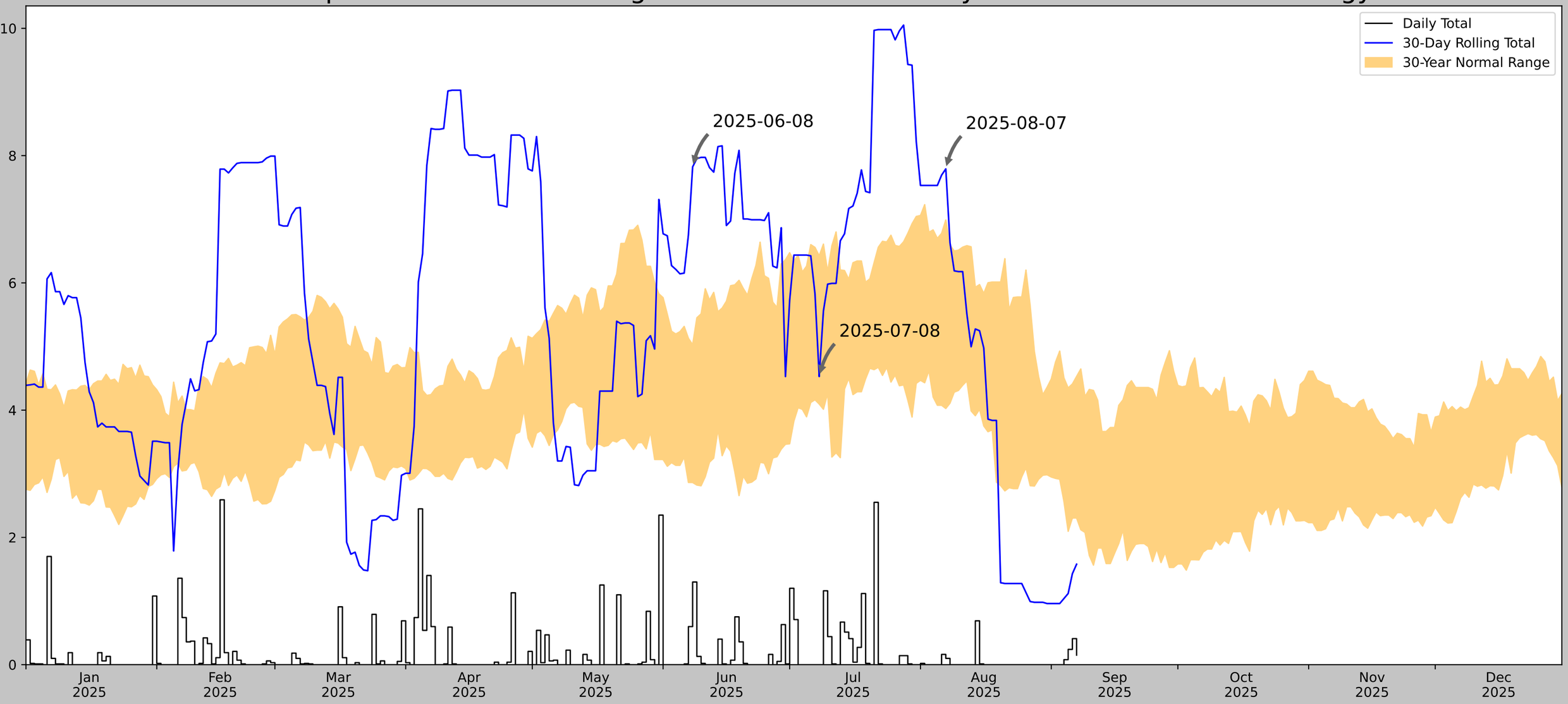
*Ground Cover: 1=Grass; 2=Fallow; 3=Bare Ground; 4=Brome grass; 5=Sod; 6=Straw mulch; 7=Grass muck; 8=Bare muck; 0=Unknown

"s" This data value failed one of NCEI's quality control tests. "At Obs." = Temperature at time of observation

"T" values in the Precipitation or Snow category above indicate a "trace" value was recorded.

"A" values in the Precipitation Flag or the Snow Flag column indicate a multiday total, accumulated since last measurement, is being used.

Data value inconsistency may be present due to rounding calculations during the conversion process from SI metric units to standard imperial units.



Coordinates	37.91584, -83.2462
Observation Date	2025-08-07
Elevation (ft)	869.976
Drought Index (PDSI)	Mild wetness
WebWIMP H_2O Balance	Dry Season

30 Days Ending	30th %ile (in)	70th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2025-08-07	4.025591	6.98937	7.791339	Wet	3	3	9
2025-07-08	4.095276	6.425591	4.527559	Normal	2	2	4
2025-06-08	2.862599	5.029134	7.822835	Wet	3	1	3
Result							Wetter than Normal - 16

Figures and tables made by the
Antecedent Precipitation Tool
Version 3.0

US Army Corps of Engineers.
ERDC

Developed by:
U.S. Army Corps of Engineers and
U.S. Army Engineer Research and
Development Center

Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
CAVE RUN LAKE	38.1228, -83.5328	839.895	21.162	30.081	10.16	11290	90
MOREHEAD 5.1 WSW	38.1754, -83.5346	892.06	3.636	52.165	1.826	1	0
MOREHEAD STATE POLICE	38.1864, -83.4669	759.843	5.668	80.052	3.004	45	0
MOREHEAD 6.4 NE	38.2429, -83.3449	859.908	13.153	20.013	6.182	16	0
OLIVE HILL 9.0 SSE	38.1933, -83.0817	875.984	24.987	36.089	12.146	1	0

Mountain, Ryan C.

From: CELRL.Door.To.The.Corps <CELRL.Door.To.The.Corps@usace.army.mil>
Sent: Thursday, August 7, 2025 10:17 AM
To: Mountain, Ryan C.
Subject: RE: West Liberty (9I3) - Obstruction Removal Project

Follow Up Flag: Follow up
Flag Status: Flagged

Dear Mr. Mountain,

This email responds to your early coordination letter (or environmental review request) received on August 5, 2025, seeking comments on the West Liberty Airport Obstruction Removal Project in Morgan Co., KY.

The U.S. Army Corps of Engineers (USACE) exercises regulatory authority under Section 10 of the Rivers and Harbors Act of 1899 (33 USC 403) and Section 404 of the Clean Water Act, 1972 (33 USC 1344) for certain activities in "waters of the United States (U.S.)." These waters include all waters that are currently used, were used in the past, or may be susceptible to use in interstate or foreign commerce.

We do not have any comments on the possible environmental effects of the proposed project(s). Our lack of comments on specific potential environmental impacts should not be construed as concurrence that no significant environmental damage would result from the project.

If the project would necessitate the discharge of dredged or fill material into any "waters of the U.S." including wetlands, then you should submit a Department of the Army (DA) permit application for review by this office. We will need a completed DA permit application along with additional details regarding the project's design, scope, construction methods, purpose, and a delineation of all "waters of the U.S.," including the coordinates and locations of each "water" within the proposed project area and all impacts to waters (linear feet, width and acreage).

To submit your DA Permit application electronically, you can visit the following website https://rrs.usace.army.mil/rrs As an alternative you can save documents as a PDF and email to CELRL.Door.To.The.Corps@usace.army.mil

Further information on the Regulatory Program, including the DA Permit application, can be obtained from our website at https://www.lrd.usace.army.mil/Wetlands-Permits/ . Please allow sufficient time in your preconstruction schedule for the processing of a DA permit application.

Sincerely,

Cody Thayer
Chief, South Branch
Regulatory Division

Louisville District
U.S. Army Corps of Engineers
(502) 315-6690
Cody.A.Thayer@usace.army.mil

Visit our website: www.lrd.usace.army.mil

Please comment on our service. Our National Customer Service Survey is located at:
https://regulatory.ops.usace.army.mil/customer-service-survey/

From: Mountain, Ryan C. <RCMountain@GarverUSA.com>
Sent: Tuesday, August 5, 2025 12:09 PM
To: CELRL.Door.To.The.Corps <CELRL.Door.To.The.Corps@usace.army.mil>
Cc: Adams, William C. <WCAdams@GarverUSA.com>
Subject: [Non-DoD Source] West Liberty (9I3) - Obstruction Removal Project

Mr. Baldridge,

We are working with the West Liberty Airport on an obstruction removal project and would like to see if the USACE has any concerns or permitting requirements for this project. Please refer to the attached information. Let me know if you have any questions or need additional information.

Sincerely,
Ryan

Ryan Mountain, PWS
Planning and Environmental Team Leader
Transportation Team
479-287-4628
479-903-2041

APPENDIX E

Public Involvement, Comments, and Responses

4701 Northshore Drive
North Little Rock, AR 72118

TEL 501.376.3633
FAX 501.372.8042

www.GarverUSA.com

Monday, June 1, 2026

The Licking Valley Courier
P.O. Box 187
West Liberty, KY 41472
Attn: Rick Adkins
Email: courier@mrtc.com
Phone: 606.743.3551

Re: West Liberty Airport – Runway 7-25 Obstruction Removal

Greetings:

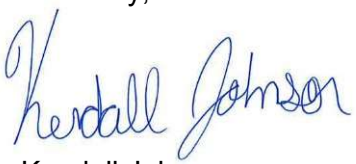
Please publish the enclosed "Notice of Availability" Legal Ad in the legal advertisements section on the following date:

Thursday, June 4, 2026

Send one copy of the proof of publication with invoice for payment to:

Garver
Attn: Kendall Johnson – Job No. 2402386
4701 Northshore Drive
North Little Rock, AR 72118
Email: KAJohnson@GarverUSA.com

Sincerely,



Kendall Johnson
Garver
Communications Specialist

Enclosure

NOTICE OF AVAILABILITY

DRAFT ENVIRONMENTAL ASSESSMENT FOR

RUNWAY 7-25 OBSTRUCTION REMOVAL

AT

WEST LIBERTY AIRPORT, WEST LIBERTY, KENTUCKY

The West Liberty - Morgan County Airport Board (Owner), in coordination with the Federal Aviation Administration (FAA), announces the availability of the Draft Environmental Assessment (EA) for Runway 7-25 Obstruction Removal at West Liberty Airport (9I3), in West Liberty, Morgan County, Kentucky. Pursuant to Title 49, United States Code, § 47106(c)(1)(A) the Draft EA is being circulated for review and comment from the public and federal, state, and local agencies.

Comments from the federal, state, and local agencies and the public will be considered part of the Final EA. The Final EA will be submitted to the FAA for the agency's environmental determination.

Proposed Development Project: The purpose of the Proposed Action is to remove individual trees identified as obstructions to the approach surfaces to Runway 7-25 that are penetrating the 20:1 Threshold Siting Surface (TSS) and Part 77 Approach Surface (AS). The Airport needs to remove these obstructions to provide safe approaches for landing aircraft and for compliance with Code of Federal Regulation (CFR) Part 77 airspace regulations. Obstructions identified as structures (i.e., power poles) need to be lighted for compliance with FAA regulations.

Summary of Impacts: A Draft EA has been prepared to disclose the potential economic, social, and environmental impacts of the Proposed Project. The EA discusses the Proposed Project, alternatives, and potential environmental effects in areas including Air Quality, Biological Resources, Greenhouse Gas Emissions, Coastal Resources, Section 4(f) of the Department of Transportation (DOT) Act and Section 6(f) of the Land and Water Conservation Fund Act, Farmlands, Hazardous Materials, Solid Waste, and Pollution Prevention, Historical, Architectural, Archeological, and Cultural Resources, Land Use, Natural Resources and Energy Supply, Noise and Noise-Compatible Land Use, Socioeconomics and Children's Health and Safety Risks, Visual Effects, and Water Resources. The research and analysis provided in the EA concluded that none of the impacts were significant.

Draft EA Availability: The Draft EA is available for public review on the below website 9i3ObstructionRemoval.AirportPlans.com and at the following location:

West Liberty City Hall
565 Main Street
West Liberty, KY 41472

How to Comment: Comments on the Draft EA should focus on the Proposed Project's economic, social, and environmental effects. Electronic comments may be sent to William Adams (WCAdams@GarverUSA.com). Written comments can be mailed to either of the recipients below:

Garver
Attn: William Adams
2525 Harrodsburg Road, Suite 405
Lexington, KY 40504

West Liberty Airport
Attn: Mr. Jeremiah Meyer, Board Chairman
450 Prestonburg Street
West Liberty, KY 41472

The public comment period is 30 days and will begin on **Thursday, June 4, 2026,** and will close on **Saturday, July 4, 2026**. Electronic and hand-delivered comments must be received before 5:00 pm Central Standard Time on **Saturday, July 4, 2026**. To ensure mailed comments are considered, they must be postmarked no later than **Saturday, July 4, 2026**.

Be advised that all comments can only be accepted with the full name and address of the individual commenting. All comments received, including personal identifying information, may be made publicly available at any time. While you can ask us in your comment to withhold your personal identifying information from public review, we cannot guarantee that we will be able to do so.

Court ...

(Continued From Page One)

meeting.

The proposed budget will take effect on July 1 upon the court's approval.

The complete budget can be obtained by contacting Treasurer Easterling or Judge Executive Jim Gazay at 743-3897, or by visiting their offices in Morgan County Wellness Center on Route 7.

Rumpke Contract Discussion

In other news, Frances Richie, a representative Rumpke Consolidated Companies, Inc., presented a five-year contract to the court for the firm's continued hauling of trash from the county's garbage transfer station to the landfill in Mt. Sterling.

Richie noted that Rumpke's current hauling rate is $413 per haul plus $29.70 per ton with a $10-ton minimum.

As per the agreement presented by Richie, the rates would increase as follows over a five-year period:

- ***June 1, 2026 to May 31, 2026 –*** $425 per haul plus $33 per ton with a 10-ton minimum.
- ***June 1, 2027 to May 31, 2028 –*** $440 per haul plus $35.50 per ton with a 10-ton minimum.
- ***June 1, 2028 to May 31, 2029 –*** $460 per haul plus $38 per ton with a 10-ton minimum.
- ***June 1, 2029 to May 31, 2030 –*** $480 per haul plus $40.50 per ton with a 10-ton minimum.
- ***June 1, 2030 to May 31, 2031 –*** $500 per haul plus $43 per ton with a 10-ton minimum.

Richie stated that the above rates would be locked in regardless of fuel inflation and other pricing fluctuations, but would also remain the same if costs decreased during this time period.

A lengthy discussion ensued as Magistrate Eric Pelfrey questioned the duration and other issues regarding the contract.

Richie told Magistrate Pelfrey that Rumpke could offer an agreement for a shorter period of time – such as three years rather than five – as Judge Executive Jim Gazay, Magistrate Tommy Fannin and Magistrate Brandon Evans all opined that a multi-year agreement would be a "gamble."

Magistrate Leroy Phipps stated that his preference would be a one-year agreement, to be revisited annually.

Richie told the court that she would need permission from Rumpke to offer a one-year contract, but noted that she had texted a superior at the company about the matter during as she spoke from the guest podium.

Within minutes, Richie informed the court that she had received a response to her inquiry, and Rumpke would approve a one-year contract at a rate of $425 per haul plus $33 per ton with a 10-ton minimum.

On a motion made by Magistrate Evans and seconded by Magistrate Phipps, the court voted unanimously to enter into the above-described one-year contract with Rumpke.

Following the vote, Judge Gazay told the court that the Kentucky Department for Environmental Protection's Division of Waste Management has reviewed the county's 2025 Solid Waste Management Area annual report.

Judge Gazay referenced a May 21 letter from the division, which states that the county is in compliance with annual reporting requirements per KRS 224.43-310, and the implementation requirements per 410 KAR 49:011.

Meeting Minutes

The following is a complete unofficial listing of all items approved during the May 28 meeting:

PRESENT MEMBERS – Magistrates Brandon Evans, Tommy Fannin, Eric Pelfrey and Leroy Phipps, and Judge Executive Jim Gazay.

ABSENT MEMBERS – Magistrate Tyler Keeton. (Judge Gazay informed the audience that Magistrate Keeton was on vacation.

- ***Motion Passed –*** Approval of Larryn Robbins and clerk of the Morgan County Fiscal Court. Passed with a motion by Tommy Fannin and a second by Brandon Evans.

Vote – Unanimous yes.

- ***Motion Passed –*** Approval of the minutes of the last meeting of the Morgan County Fiscal Court. Passed with a motion by Brandon Evans and a second by Tommy Fannin.

Vote – Unanimous yes.

- ***Motion Passed –*** Approval of the financial statement ending April 30, 2026, as presented. Passed with a motion by Brandon Evans and a second by Tommy Fannin.

Vote – Unanimous yes.

- ***Informational Item –*** The first reading of Budget Amendment #5 was held. (NOTE: This amendment includes a total of $720,225.64 for FEMA projects DR-4860 and DR-4864.)
- ***Motion Passed –*** Approval of budget transfers as presented. Passed with a motion by Tommy Fannin and a second by Eric Pelfrey. (NOTE: Budget Transfer #12 totals $32,259.20).

Vote – Unanimous yes.

- ***Motion Passed –*** Approval of interfund cash transfer as presented. Passed with a motion by Eric Pelfrey and a second by Brandon Evans. (NOTE: This is to transfer $50,000 from the general fund to the jail fund.)

Vote – Unanimous yes.

- ***Motion Passed –*** Approval to enter into a one-year contract with Rumpke. Passed with a motion by Brandon Evans and a second by Leroy Phipps. (NOTE: The terms of the contract were documented earlier in this report.)

Vote – Unanimous yes.

- ***Motion Passed –*** Approval to hire new personnel as presented. Passed with a motion by Brandon Evans and a second by Tommy Fannin. (NOTE: Personnel includes Kiera Riley, full time temporary Animal Shelter, $10 per hour; Daniel Bailey, Wellness Center attendant part-time, $10 per hour; Penny Kinder, Wellness Center attendant part-time, $10 per hour).

Vote –Unanimous yes.

- Motion Passed – Approval of Library Board appointments. Passed with a motion by Brandon Evans and a second by Eric Pelfrey. (NOTE: Robin Dickerson and John Blevins will fill vacancies left by Mike Griffitts and Sandy Pelfrey.)

Vote – Unanimous yes.

- ***Motion Passed –*** Approval of the Fiscal Year 2027 Rowan County inmate housing agreement as presented. Passed with a motion by Brandon Evans and a second by Eric Pelfrey. (NOTE: The agreement remains the same as last year's at $42 per day per inmate.)

Vote – Unanimous yes.

- ***Motion Passed –*** Approval to give County Judge Executive Jim Gazay authority to negotiate and finalize the and agreement presented by Perfection Group and terminate current contract with HMC. Passed with a motion by Eric Pelfrey and a second by Brandon Evans. (NOTE this refers to a maintenance agreement for the public library, judicial center, county government and wellness center buildings.)

Vote – Unanimous yes.

- ***Informational Item –*** A Fiscal Year 2027 Proposed Use Hearing for Local Government Economic Assistance (LGEA) and County Road Aid (CRA) was held. There were no comments from the public.
- ***Motion Passed –*** Approval of the first reading of the Fiscal Year 2026-2026 budget as presented. Passed with a motion by Tommy Fannin and a second by Brandon Evans.

Vote – Unanimous yes.

- ***Motion Passed –*** Ratification of prior period expenditures for WEX and Elan Financial Services. Passed with a motion by Brandon Evans and a second by Tommy Fannin.

Vote – Unanimous yes.

- ***Motion Passed –*** Ratification of paid vendor claims. Passed with a motion by Eric Pelfrey and a second by Brandon Evans.

Vote – Unanimous yes.

- ***Motion Passed –*** Approval of Unpaid Vendor Claims A. Passed with a motion by Brandon Evans and a second by Tommy Fannin.

Vote – Unanimous yes.

- ***Motion Passed –*** Approval of Unpaid Vendor Claims B. Passed with a motion by Tommy Fannin and a second by Brandon Evans.

Vote – Yes: Brandon Evans, Tommy Fannin and Leroy Phipps. Abstain: Eric Pelfrey.

- ***Motion Passed –*** Adjournment of the meeting. Passed with a motion by Eric Pelfrey and a second by Brandon Evans.

Vote – Unanimous yes.

Additional Information

For additional information regarding Morgan County Fiscal Court activities, contact Judge Executive Jim Gazay at 743-3897 or visit his office in the Morgan County Wellness Center on Route 7.

Council ...

(Continued From Page One)

offset some of the increases we are facing from our suppliers. As for general operations, no major changes are expected."

•••

Following the budget presentation, Councilman Rusty Lindon made a motion that was seconded by Councilman Grant Sorrell to approve the budget ordinance on first reading.

The motion carried unanimously.

Council members are expected to hold the second reading of the budget ordinance at their next regular meeting on Monday, June 22.

In other news, the council held the first reading of a updated planning and zoning ordinance following a discussion of whether tiny homes are addressed in the new code.

City Attorney Daniel Frederick told the council that he would research the matter prior to a discussion regarding subdivision regulations.

City Clerk Amy Williams told the Courier during a June 1 interview that subdivision regulations must be addressed in a separate ordinance, however.

Other items unanimously approved during the meeting included the following, as per meeting minutes:

- ***Budget Amendments, First Reading –*** The council approved budget amendments for unanticipated revenues totaling $197,977.02 for Alcohol and Beverage Control funds: Capital Outlay (Admin), $89,891.68; Capital Outlay (Police), $21,766.66; Capital Outlay (Dispatch), $21,766.66; Telephone (Admin), $1,000; Animal Control Expenses, $3,000; Operation Savings, $50,552.02.
- ***Municipal Road Aid Agreement & Resolution –*** This agreement and resolution are to accept $61,635.09 in road aid from the state.

Before adjournment, the council discussed possible

See COUNCIL, Page 7

YARD SALE

Fri, June 5th
Sat., June 6

We have a wide variety of items available, including:
- Plus-size women's clothing (XL through 3X): jeans, shorts, dresses, and tops.
- Women's shoes: sizes 8 and 11.
- Little boys' clothing: sizes 18 months through 2T.
- Farmhouse decorations and kitchenware.

There are lots of great items to choose from! We hope to see you there.

June Holbrook & Jess Malone
Beside Freezer Fresh

BIG YARD SALE

Thurs., June 4
Fri., June 5

At The Home Of
JOYCE JONES
3104 Liberty Rd

Clothes, antique Singer sewing machine, glassware, antique irons, quilts, prints, toys, toddler bed, car seat, and LOTS more.

8:00 AM- 5:00 PM

YARD SALE

Saturday, June 7
7 am to 7 pm

Three large pull-behind trailers of new or like new items! Cleaning out small appliances, glassware, furniture, scrubs, nursing shoes (top brand), cookware, quilt frame, sewing machine, bicycles, toys, Vintage items. You name it, we probably have it! Fantastic prides! Everything must go!

GIVEN BY MULTIPLE SISTERS
8411 HWY. 172, West Liberty

AMISH BUILDERS
We specialize in Pole Barns

24" x 32" x 10" with 12" Over Hang
$12,675.00
Erected Includes 1 Over Head Door and 1 Service Door

30" x 40" x 10" with 12" Over Hang
$16,500.00
Erected Includes 1 Over Head Door and 1 Service Door

32" x 48" x 12" with 12" Over Hang
$19,900.00
Erected Includes 1 Over Head Door and 1 Service Door

40" x 64" x 12" with 12" Over Hang
$31,400.00
Erected Includes 2 - 10" x 10" Over Head Doors and 1 Service Door

WE ALSO BUILD NEW HOMES, ROOFS, DECKS & REMODEL
Call 606-210-0256
C-5-21-26

Multi-Family
YARD SALE

THURS., JUNE 4TH
FRI., JUNE 5TH
SAT., JUNE 6TH

Huge variety of items including men's, women's, and children's clothing, shoes, purses, accessories, toys, baby items, household items, home décor, outdoor items, tools, furniture, and much more!

2207 LIBERTY RD
West Liberty, Ky 41472

NOTICE OF AVAILABILITY

DRAFT ENVIRONMENTAL ASSESSMENT FOR

RUNWAY 7-25 OBSTRUCTION REMOVAL

AT

WEST LIBERTY AIRPORT, WEST LIBERTY, KENTUCKY

The West Liberty - Morgan County Airport Board (Owner), in coordination with the Federal Aviation Administration (FAA), announces the availability of the Draft Environmental Assessment (EA) for Runway 7-25 Obstruction Removal at West Liberty Airport (9I3), in West Liberty, Morgan County, Kentucky. Pursuant to Title 49, United States Code, § 47106(c)(1)(A) the Draft EA is being circulated for review and comment from the public and federal, state, and local agencies.

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565 Main Street
West Liberty, KY 41472

How to Comment: Comments on the Draft EA should focus on the Proposed Project's economic, social, and environmental effects. Electronic comments may be sent to William Adams (WCAdams@GarverUSA.com). Written comments can be mailed to either of the recipients below:

Garver
Attn: William Adams
2525 Harrodsburg Road, Suite 405
Lexington, KY 40504

West Liberty Airport
Attn: Mr. Jeremiah Meyer, Board Chairman
450 Prestonburg Street
West Liberty, KY 41472

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Runway 7-25 Obstruction Removal

West Liberty Airport, West Liberty, Kentucky

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Draft EA Availability: The Draft EA is available for public review on the project website and at the following locations:
West Liberty City Hall
565 Main Street
West Liberty, KY 41472

The symbol 🔗 means the graphic or text serves as a hyperlink.

Draft Environmental Assessment (EA)



🔗

How to Comment: Comments on the Draft EA should focus on the Proposed Project's economic, social, and environmental effects. Electronic comments may be sent to William Adams (WCAdams@GarverUSA.com). Written comments can be mailed to either of the recipients below:

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Accommodations: Anyone needing project information or special accommodations under the Americans with Disabilities Act (ADA) is encouraged to contact Caitlin Hetzel, at (501) 823-0730, mail at Garver, Attn: Caitlin Hetzel, 4701 Northshore Drive, North Little Rock, AR 72118, or email at PublicInvolvement@GarverUSA.com 🔗. Hearing or speech impaired, please contact the Kentucky Relay System at (Voice/TTY 711). Requests should be made at least four days prior to the end of the comment period. Free language assistance for Limited English Proficient individuals is available upon request.

Andy Beshear
Governor

OFFICE OF THE GOVERNOR
DEPARTMENT FOR LOCAL GOVERNMENT
100 AIRPORT ROAD, THIRD FLOOR
FRANKFORT, KENTUCKY 40601
PHONE (502) 573-2382, F 227-8691
dlg.ky.gov

Matt Sawyers
Commissioner

June 17, 2025

Mr. Jeremiah Meyer
West Liberty-Morgan Airport Board
50 Airport Way
West Liberty, KY 41472

RE: Obstruction Removal project
SAI# KY202506020424
CFDA# 20.106

Dear Mr. Meyer:

The Kentucky State e-Clearinghouse is the official designated Single Point of Contact (SPOC) for the Commonwealth pursuant to Presidential Executive Order 12372 and supported by Kentucky Statutes KRS 45.031. The primary function of the SPOC is to streamline the review process for the applicant and the funding agency. This process helps in vocalizing the statutory and regulatory requirements. Information in the form of comments, if any, will be attached to this correspondence.

This proposal has been reviewed by the appropriate state agencies in the e-Clearinghouse for conflicts with state or local plans, goals, and objectives. After receiving this letter, you should make it available to the funding agency and continue with the application process for that agency. This e-Clearinghouse SPOC letter signifies only that the project has followed the state reviewing requirements and is neither a commitment of funds from this agency, nor any other state or federal agency. Please remember if any federal reviews are required, the applicant must follow through with those federal agencies.

The results of this review are valid for **one year** from the date of this letter. If the project is not submitted to the funding agency or not approved within one year after the completion of this review, the applicant can request an extension through the **information request function**. If the project changes in any way after the review, the applicant must reapply through the e-Clearinghouse for a new review. There are no exceptions.

If you have any questions regarding this letter or the review process, please contact the e-Clearinghouse office at (502) 573-2382.

Respectfully,

Cindy Seip,
Program Coordinator (SPOC)
Kentucky State e-Clearinghouse

Attachment

TEAM KENTUCKY

An Equal Opportunity Employer M/F/D

Department of Housing Buildings and Construction
Don Newberry

The Department of Housing Buildings and Construction, Division of Building Code Enforcement, has no comments concerning this proposed project.

Environment and Energy Cabinet - Department for Environmental Protection
Derek Bozzell

This review was based upon the information that was provided by the applicant through the Clearinghouse for this project. An endorsement of this project does not satisfy, or imply, the acceptance or issuance of any permits, certifications, or approvals that may be required from this agency under Kentucky Revised Statutes or Kentucky Administrative Regulations. Such endorsement means this agency has found no major concerns from the review of the proposed project as presented other than those stated as conditions or comments.

401 KAR 63:010, Fugitive Emissions, states that no person shall cause, suffer, or allow any material to be handled, processed, transported, or stored without taking reasonable precaution to prevent particulate matter from becoming airborne. Additional requirements include the covering of open bodied trucks, operating outside the work area transporting materials likely to become airborne, and that no one shall allow earth or other material being transported by truck or earth-moving equipment to be deposited onto a paved street or roadway. Please note the Fugitive Emissions Fact Sheet located at:
https://eec.ky.gov/Environmental-Protection/Air/Documents/Fugitive%20Dust%20Fact%20Sheet.pdf.

401 KAR 63:005 states that open burning shall be prohibited except as specifically provided. Open Burning is defined as the burning of any matter in such a manner that the products of combustion resulting from the burning are emitted directly into the outdoor atmosphere without passing through a stack or chimney. However, open burning may be utilized for the expressed purposes listed on the Open Burning Brochure located at:
http://eec.ky.gov/Environmental-Protection/Air/Pages/Open-Burning.aspx

The Division suggests an investigation into compliance with applicable local government regulations.

All solid waste generated by this project must be disposed at a permitted facility. If underground storage tanks are encountered they must be properly addressed. If asbestos, lead paint, and/or other contaminants are encountered during this project, they must be properly addressed.

The Division of Water recommends that in the construction of the project Best Management Practices (BMPs) be utilized to prevent nonpoint-sources of water pollution and, thereby, control stormwater runoff and sediment damage to water quality and aquatic habitat. For technical assistance on the kinds of BMPs most appropriate for this type of construction, please contact the local Soil and Water Conservation District or the Division of Conservation of the Energy and Environment Cabinet. The Division of Water, also, has available BMP construction manuals.

If the project is in a karst area, BMPs during construction and operation of the facility should be followed to mitigate any potential impacts to groundwater, especially from excess sediment. The appropriate Groundwater Protection Plan should also be followed and should include spill protection for any on-site fuel storage. Appropriate measures need to be followed to ensure that any wells or springs are not impacted, especially those that may be used for domestic water supplies.

If the proposed project site is in a designated flood hazard area, application must be made to the Division of Water for a floodplain construction permit. Permission, or exemption, depends upon design and the exact site.

If the construction area disturbed is equal to or greater than 1 acre, the applicant will need to apply for a Kentucky Pollutant Discharge Elimination System (KPDES) stormwater discharge permit from Division of Water.

Utility line projects that cross a stream will require a Section 404 permit from the US Army Corps of Engineers and a 401 Water Quality Certification from DOW.

A groundwater survey of the site and vicinity should be conducted prior to construction, and any wells or springs located should be inspected and mapped and records filed with the Watershed Management Branch, Division of Water. If any water wells on-site need to be abandoned, state regulations require that they be properly plugged by a Kentucky certified water well driller.

Transportation Cabinet Kentucky Airport Zoning Commission
The Kentucky Airport Zoning Commission has jurisdiction for issuing permit on and around all public use airports. Information on airport zoning laws and regulations may be found at:
https://transportation.ky.gov/Aviation/Pages/airportzoning.aspx

Your project might have the potential of impacting federally or state listed species and natural communities. Go to the Kentucky Biological Assessment Tool (kynaturepreserves.org) to obtain a Standard Occurrence Report for information regarding listed species known within your project area. The report will also provide information on public and private conservation lands, areas of biodiversity significance, and other natural resources in your project area for which the Office of Kentucky Nature Preserves maintains data.

Gateway Area Development District
Benjamin Hamm

The Gateway Area Development District has reviewed the proposed project and finds it consistent with the goals, strategies, and regional priorities identified in the Gateway Regional Comprehensive Economic Development Strategy (CEDS) for Bath, Menifee, Montgomery, Morgan, and Rowan Counties.

Kentucky Department of Fish & Wildlife
Emily Lawson

Due to the location and nature of the project, Kentucky Department of Fish & Wildlife Resources (KDFWR) does not have specific concerns regarding federal or state-listed threatened / endangered species, designated critical habitat, wildlife management areas, or other properties managed by KDFWR. The following recommendations are provided as general guidance for development of private and grant-funded projects submitted to KDFWR for review. In general, impacts to fish and wildlife resources might be avoided and minimized by following the guidance provided below:

• USFWS Coordination for compliance with the Endangered Species Act: Please coordinate with the US Fish and Wildlife Service for compliance with the Endangered Species Act and for specific recommendations to minimize adverse effects to listed species. The USFWS may have seasonal requirements for removing trees, especially those greater than 3" in diameter-at-breast height. Limiting the removal of these trees to the period between October 15th through March 31st will minimize impacts to many species of bats, several of which are listed as threatened or endangered on the federal Endangered Species Act.

• Erosion control to minimize impacts to the aquatic environment: KDFWR recommends that erosion control measures be developed and implemented prior to construction to reduce siltation into waterways located within/near the project area. Such erosion control measures may include, but are not limited to silt fences, staked straw bales, brush barriers, sediment basins, and diversion ditches. Erosion control measures will need to be inspected regularly and repaired as needed. If blanket-style matting is used for erosion control, please avoid using the nylon monofilament netting as it can entangle and kill wildlife. An alternative blanket style control is organic coir matting, which degrades naturally and provides excellent soil protection and moisture retention for seed germination—as well as controlling erosion runoff without unnecessarily impacting wildlife.

Thank you for coordinating with KDFWR. Please contact Emily Lawson at 502-892-4472 or emilym.lawson@ky.gov if you have further questions or require additional information.

Kentucky Transportation Cabinet
Darren Back

Based on the information provided, the Kentucky Transportation Cabinet District 10 has no comments regarding the proposed project. If any work is planned within the Commonwealth of Kentucky's Right of Way, please submit a permit application to the KYTC District 10 Permits Section and obtain approval prior to beginning work. For further questions or additional information, please contact Darren Back at 606-666-8841 or darren.back@ky.gov.

KY Heritage Council
Yvonne Sherrick

To receive a review from the KY Heritage Council/State Historical Preservation Office (SHPO) you must follow the instructions located on their website at https://heritage.ky.gov/compliance/Pages/overview.aspx. There you will find the required documents for the Section 106 Review and Compliance for 36 CFR Part 800. This Section 106 submission process to SHPO will assist applicants and agencies in providing the appropriate level of information to receive comments from SHPO. If you have any questions please contact Yvonne Sherrick, via email at yvonne.sherrick@ky.gov.

Please note: If your project is funded through Transportation Alternative (TAP), Transportation Enhancements (TE), Congestion, Mitigation, Air Quality (CMAQ), or Safe Routes to School (SRTS) you will need to send this information to Michael Jones, Historic Preservation Program Administrator with the Kentucky Transportation Cabinet via email to MichaelR.Jones2@ky.gov or hard copy to Michael Jones, Office of Local Programs, KY Transportation Cabinet, 200 Mero Street Frankfort, KY 40622. Do not send materials directly to SHPO if your project involves funding from these four sources as it will cause delays in the review process. Michael Jones will consult directly with the SHPO on projects with these funding sources to complete the Section 106 review.

2525 Harrodsburg Rd
Suite 405
Lexington, KY 40504

TEL 859.219.0659
FAX 859.410.2600

www.GarverUSA.com

July 11, 2025

Morgan County Fiscal Court
450 Prestonsburg Street, West Liberty, KY 41472

Re: Request for Property Access
9I3 Runway 7-25 Obstruction Removal, Focused Environmental Assessment
West Liberty Airport, West Liberty, Kentucky

To Whom It May Concern:

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Field studies will be conducted at various times between July 28 and August 15, 2025. **Please contact me if you want to grant or deny access to your property** or if you have any special instructions for access. My contact information is 479-287-4628, or RCMountain@GarverUSA.com.

Sincerely,

Ryan Mountain

Ryan Mountain, PWS
Environmental Project Manager

Enclosures

2525 Harrodsburg Rd
Suite 405
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July 11, 2025

Robin Elizabeth Dalton
58 Sugar Maple Lane, West Liberty, KY 41472

Re: Request for Property Access
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West Liberty Airport, West Liberty, Kentucky

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July 11, 2025

Alan & Joyce Lewis
650 Dehart Road, West Liberty, KY 41472

Re: Request for Property Access
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West Liberty Airport, West Liberty, Kentucky

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July 11, 2025

Constance Foster
113 Sugar Maple Lane, West Liberty, KY 41472

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July 11, 2025

Marie Lacy Rowe C/O Tommy Standafer
1028 Patrick Road, West Liberty, KY 41472

Re: Request for Property Access
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West Liberty Airport, West Liberty, Kentucky

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July 11, 2025

N/A
N/A

Re: Request for Property Access
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July 11, 2025

Ralf & Sherry Day
27 Trooper Lane, West Liberty, KY 41472

Re: Request for Property Access
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West Liberty Airport, West Liberty, Kentucky

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July 11, 2025

Kendra Bell
41 Trooper Lane, West Liberty, KY 41472

Re: Request for Property Access
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July 11, 2025

Dwayne Nickell
22 Trooper Lane, West Liberty, KY 41472

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West Liberty Airport, West Liberty, Kentucky

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July 11, 2025

Madison Price
111 Crestview Drive, West Liberty, KY 41472

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July 11, 2025

Paula Cantrill & Ernestine Vanhoose
243 Crestview Drive, West Liberty, KY 41472

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July 11, 2025

Tim Keller
6374 Hwy 460 W, West Liberty, KY 41472

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July 11, 2025

Total Collision Parts Inc
6374 Hwy 460 W, West Liberty, KY 41472

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January 2, 2026

Kendra Bell
41 Trooper Lane West Liberty, KY 41472

Re: 9I3 Runway 7-25 Obstruction Removal Project – Environmental Coordination
West Liberty Airport, West Liberty, Kentucky

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January 2, 2026

Michael Bradley & Jennifer Wright
55 Trooper Lane West Liberty, KY 41472

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West Liberty Airport, West Liberty, Kentucky

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January 2, 2026

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550 Dogwood Lane West Liberty, KY 41472

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David Ralph & Sherry Day Holbrook
27 Trooper Lane West Liberty, KY 41472

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West Liberty Airport, West Liberty, Kentucky

To Whom It May Concern:

The West Liberty-Morgan County Airport Board has an upcoming proposed obstruction removal project for Runway 7-25 at the West Liberty Airport. The future project would consist of removing some isolated trees within the areas shown on the attached map. The first step of this proposed project is the preparation of a National Environmental Policy Act (NEPA) Environmental Assessment (EA). The EA requires us, the Engineer of Record for the airport board, to perform environmental reviews.

We are providing advance notice of the project prior to the Draft EA being completed so you can see how your property may be affected. Please let us know if you have any questions or comments. An opportunity to review the Draft EA will also be provided when complete.

My contact information is 479-287-4628, or RCMountain@GarverUSA.com.

Sincerely,

Ryan Mountain

Ryan Mountain, PWS
Environmental Project Manager

Enclosures

2525 Harrodsburg Rd
Suite 405
Lexington, KY 40504

TEL 859.219.0659
FAX 859.410.2600

www.GarverUSA.com

January 2, 2026

Tim Keller
6374 Hwy 460 W West Liberty, KY 41472

Re: 9I3 Runway 7-25 Obstruction Removal Project – Environmental Coordination
West Liberty Airport, West Liberty, Kentucky

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January 2, 2026

Madison Price
111 Crestview Dr West Liberty, KY 41472

Re: 9I3 Runway 7-25 Obstruction Removal Project – Environmental Coordination
West Liberty Airport, West Liberty, Kentucky

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January 2, 2026

Lacy Marie Rowe C/O Tommy Standafer
1028 Patrick Road West Liberty, KY 41472

Re: 9I3 Runway 7-25 Obstruction Removal Project – Environmental Coordination
West Liberty Airport, West Liberty, Kentucky

To Whom It May Concern:

The West Liberty-Morgan County Airport Board has an upcoming proposed obstruction removal project for Runway 7-25 at the West Liberty Airport. The future project would consist of removing some isolated trees within the areas shown on the attached map. The first step of this proposed project is the preparation of a National Environmental Policy Act (NEPA) Environmental Assessment (EA). The EA requires us, the Engineer of Record for the airport board, to perform environmental reviews.

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Sincerely,

Ryan Mountain

Ryan Mountain, PWS
Environmental Project Manager

Enclosures

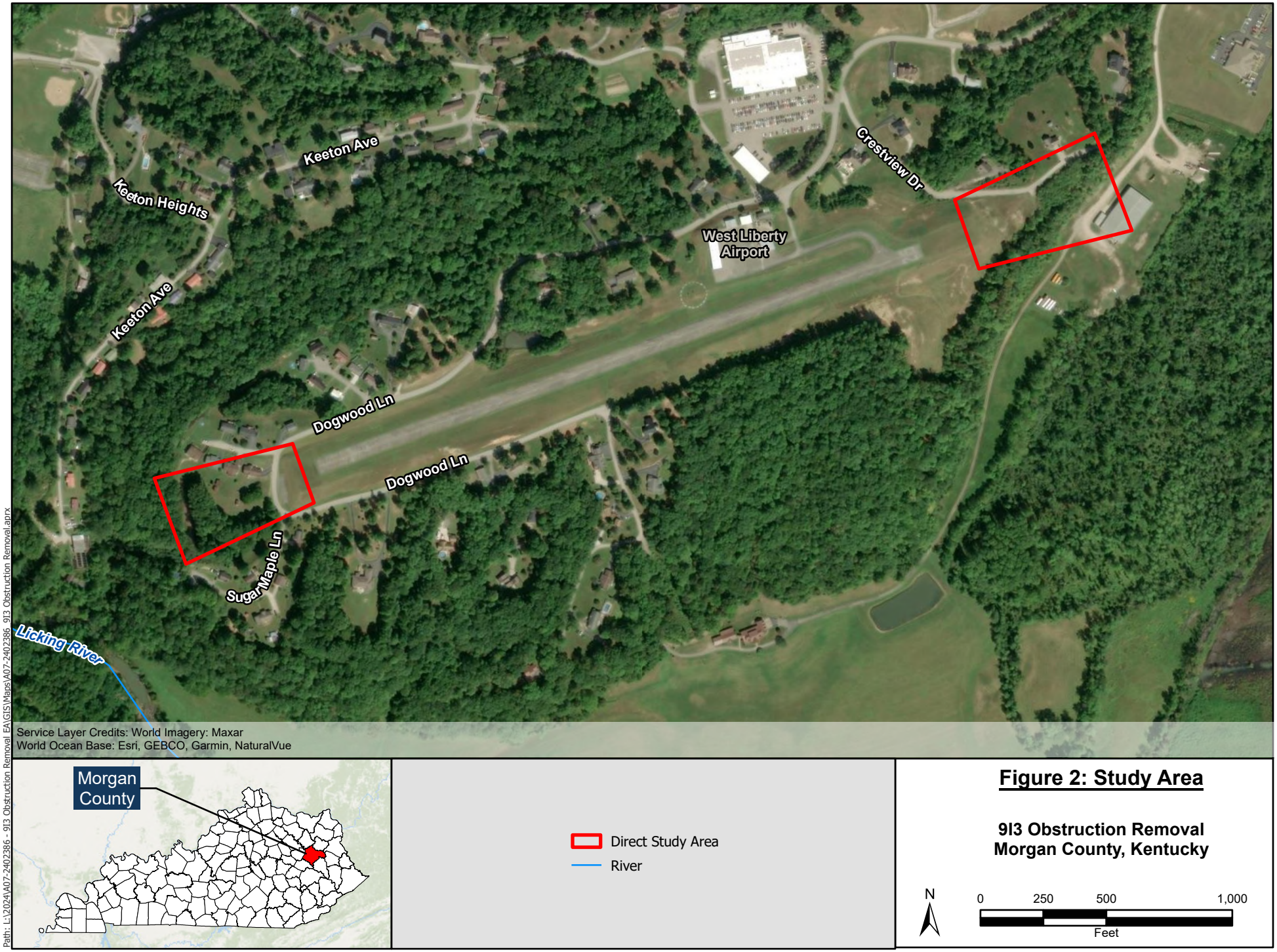

Figure 2: Study Area

9I3 Obstruction Removal
Morgan County, Kentucky

Path: L:\2024\A07-2402386 - 9I3 Obstruction Removal EA\GIS\Maps\A07-2402386_9I3 Obstruction Removal.aprx

APPENDIX F

Preparer Resumes



Will Adams, PE

Kentucky Aviation Leader | **Lexington, KY**

7 Years of Experience

Will Adams serves as Garver's Aviation Team Leader for Kentucky, managing design and construction services for airports across the state. He engages directly with aviation clients, coordinates staffing and subconsultants, and oversees quality control for projects statewide. He has worked on a wide variety of airport projects, including runway extensions, apron and taxiway reconstruction, hangar construction, and drainage improvements at general aviation and commercial services airports across the Commonwealth. Will has a strong understanding of Kentucky Transportation Cabinet's bidding and finance processes, helping him successfully navigate administrative requirements and keep projects on track.

Education

Bachelor of Science, Civil Engineering

Certification

Professional Engineer, KY, 38791

Affiliations

American Association of Airport Executives

Kentucky Aviation Association

Kentuckians for Better Transportation

Relevant Experience

Obstruction Removal Environmental Assessment | *West Liberty Airport*
Project Manager responsible for leading coordination among the environmental project team, the client, and regulatory agencies as part of EA development for an upcoming obstruction removal project. Responsibilities included supporting scoping and client/stakeholder coordination as well as grant-related coordination.

Box Hangar Construction | *West Liberty Airport*
Project Manager responsible for management of construction phase of a three-unit box hangar project including submittal review, invoice processing, and client and contractor coordination.

Markings and Drainage Improvements | *West Liberty Airport*
Project Manager responsible for leading design, bidding, and construction phase services for a runway marking and drainage improvement project. Also responsible for coordination with internal environmental services team, FAA and KDA stakeholders, and contractor, and as well as grant-related support.

Airport Layout Plan Update | *West Liberty Airport*
Project Manager responsible for leading coordination among the airport planning team, the client, and regulatory agencies as part of developing an ALP update with narrative report focused on runway safety enhancement and obstruction mitigation. Runway development alternatives included providing the longest and safest runway possible in a geographic setting where terrain is challenging.

Terminal Development, Phase 1 | *Capital City Airport*
Project manager responsible for leading project administration, design, bidding, and construction phase services for first phase of preparing the site for future terminal development and related infrastructure improvements.

T-Hangar Development | *Cynthiana-Harrison County Airport*
Project manager for the construction of new T-hangars and apron pavements. Elements included survey, geotechnical, design, and bidding, as well as airspacing and modification of stormwater drainage patterns. Removal of tree obstructions prior to bidding was also required in order to satisfy FAA requirements.



Colby Marshall

Environmental Scientist | **Fayetteville, AR**

16 Years of Experience

Colby Marshall is an environmental specialist at Garver responsible for performing wetland delineations, jurisdictional water evaluations, industrial and construction stormwater permitting, habitat assessments, and wildlife surveys. He has completed the USACE Stream Investigation, Stabilization, and Design Workshop, Tennessee's Hydrologic Determination Training Course, and has an EPA Watershed Management Training Certificate. His experience includes Trimble GPS and ArcGIS.

Education

Bachelor of Science, Biology

Relevant Experience

Environmental Assessment | *Muhlenberg County Airport*
Environmental Specialist responsible for providing technical support for development of an EA prior to a corporate apron expansion. Specific duties included conducting plant identification and aquatic resource reviews, compiling and analyzing data, and performing mitigation research to inform impact evaluations. Also coordinated with USACE for permitting and Section 404 requirements.

Runway 25 Extension Environmental Assessment | *Fort Smith Regional Airport*
Environmental Specialist responsible for the development and coordination of a USACE individual permit for wetland mitigation. The proposed 1,300-ft runway extension included the disturbance of approximately five acres of existing wetlands. Coordinated with the USACE and the owner to execute an Individual Permit, which included mitigation credits to offset the wetland disturbance. Also assisted in the development of an Environmental Assessment for the project.

Environmental Assessment for MTSU Development | *Shelbyville Municipal Airport*
Environmental Specialist for completion of an Environmental Assessment for the Middle Tennessee State University (MTSU) Aviation Facility project. Responsibilities included TDEC, USFWS, and other agency coordination, tribal coordination, wetland report development, habitat assessment development, and Section 404 permiting as well as drafting the final Environmental Assessment.

Environmental Assessment | *Garnett Municipal Airport*
Environmental Specialist responsible for delineating wetlands along proposed airport improvements as part of EA development to evaluate impacts from the preferred development of the ALP update. Responsibilities included assessing federally threatened and endangered species habitat and drafting a wetland report and Section 404 permit package.

Environmental Assessment for Midfield Apron Expansion | *Music City Executive Airport*
Environmental Specialist responsible for drafting a wetland report and hydrologic determination and acquiring a Section 404 permit. Garver provided environmental clearance services for the site in prepartion for an apron expansion nearer the airport's center in an effort to meet the ever-growing demand for hangar construction.



Education

Master of Science, Geographic Information Science

Bachelor of Arts, Anthropology

Bachelor of Arts, History

Michelle Cook, MS

Environmental Planner | **Frisco, TX**

7 Years of Experience

Michelle Cook is a project administrator in the Frisco office. Her responsibilities include transportation administration support including material and shop drawing submittal coordination, compiling documents submittal to the client, document formatting and printing, assisting with property owner verification, preparing and mailing public meeting letters, and preparing meeting documents. She is also responsible for assisting with travel coordination and professional license renewals.

Relevant Experience

FM 1173, TxDOT Dallas District | *Krum, TX*
Project administrator responsible for providing support including material and shop drawing submittal coordination, compiling documents for submittal to the Client, document formatting and printing, facilitating meetings, and gathering information regarding project route. Responsibilities included scheduling meetings, preparing agendas and meeting minutes, researching property locations, verifying and updating owner information, obtaining photographs of project route, preparing public meeting notification letters, and preparing public meeting documents and presentation boards. Additionally, responsible for reviewing subconsultant invoices and maintaining certificates of insurance from subconsultants for records.

Irving Boulevard from Sowers Road to Strickland Drive | *Irving, TX*
Project administrator responsible for providing support including document formatting, document printing, and gathering information regarding project route. Responsibilities included researching property locations, verifying and updating owner information, preparing public meeting notification letters, preparing public meeting documents and presentation boards, and providing administrative support during public meetings. Additionally, responsible for maintaining certificates of insurance from subconsultants for records.

North Texas Toll Authority SE | *Prosper, TX*
Project administrator responsible for providing support including document formatting and printing, facilitating meetings, and gathering information regarding project route. Responsibilities included scheduling meetings, preparing agendas and meeting minutes, researching property locations, and verifying and updating owner information. Additionally, responsible for reviewing subconsultant invoices and maintaining certificates of insurance from subconsultants for records.

FM 1387, TxDOT Dallas District | *Midlothian, TX*
Project administrator responsible for providing support including document formatting and printing, assisting with contracts, and gathering property information regarding project route. Responsibilities included researching property locations and verifying and updating owner information. Additionally, responsible for maintaining certificates of insurance from subconsultants for records.

I-20 PSE, TxDOT Dallas District | *Dallas, TX*
Project administrator responsible for facilitating meetings. Responsibilities included scheduling meetings and preparing agendas and meeting minutes. Additionally, responsible for reviewing subconsultant invoices, maintaining certificates of insurance from subconsultants for records.



Education

Bachelor of Science, Communications

Kendall Johnson

Communications Specialist | **Round Rock, TX**

5 Years of Experience

Kendall Johnson is a communications specialist with a focus on public outreach and public involvement coordination for transportation projects. She develops and manages virtual public involvement websites, prepares news releases, and creates a wide range of outreach materials including email blasts, mailed letters, postcards, and comment forms. Kendall also leads the development of summary reports, organizes and executes in-person public meetings, documents and tracks all project comments, engages directly with the public, and maintains active project websites to ensure information remains accurate and up to date.

Relevant Experience

Obstruction Removal Environmental Assessment | *West Liberty Airport*
Communications specialist responsible for sending multiple rounds of notification letters to property owners about upcoming project work. Garver is providing services for an environmental assessment prior to the design and construction of an obstruction removal project.

Sustainability Master Plan | *El Paso International Airport*
Communications specialist responsible for developing and maintaining the project website to inform the public about the sustainability master plan efforts and provide a platform for gathering community feedback. Also monitored and reported on website analytics to track engagement. The master plan provides an inventory of existing sustainability-related activities/infrastructure, visioning and goal setting, and an action plan to improve sustainability.

Airport Master Plan | *Dallas Executive Airport*
Communications specialist responsible for developing and maintaining the project website to inform the public about the Airport Layout Plan. Garver is developing an ALP with Narrative Report focused on establishing a detailed aeronautical facility development plan that includes drainage planning and improvements.

I-70 Blue Springs to Odessa | *Missouri Department of Transportation*
Communications specialist responsible for developing ballots, handouts, and brochures for property owners to communicate key project details. Also prepared comprehensive meeting materials for the in-person public meeting to further explain the project. Garver is delivering accelerated final design for the western 5-mile I-70 widening from Blue Springs past the Sni-A-Bar Creek bridges.

MS 161 Clarksdale | *Mississippi Department of Transportation*
Communications specialist responsible for preparing email blasts and mailing letters and postcards to inform the public about the project. Coordinated an in-person public meeting to provide additional project information and gather community feedback. Garver is providing Phase A design, plans, and submittals for SR 161 from New Africa Road to 6th Street.



Ryan Mountain, PWS

Planning and Environmental Team Leader | **Rogers, AR**

26 Years of Experience

Ryan Mountain is a planning and environmental team leader with 26 years of experience who is responsible for providing environmental services to our aviation, transportation, industrial, federal, and water business lines. His primary aviation responsibilities include authoring and managing the completion of NEPA documents; providing quality control reviews; identifying hazardous wildlife attractants; erosion control planting recommendations; Section 404 permitting; local, state, and federal agency coordination; designing and drafting wetland and stream mitigation plans and specifications; conducting wetland and stream delineations; biological evaluations; habitat assessments; functional value assessments; preparation of spill prevention control and countermeasure plans; and preparing stormwater pollution prevention plans. He has completed numerous Phase I Environmental Site Assessments as required with the purchase of commercial properties, including RSAs. Ryan has completed the Federal Highway Administration's Section 4(f) overview course and TNM 2.5 noise modeling course, covering the important statute that protects parklands, recreation areas, wildlife and waterfowl refuges, historic sites, and noise impacts.

Education

Bachelor of Science, Fisheries and Wildlife Management

Certification

Professional Wetland Scientist, 2745

Affiliations

Society of Wetland Scientists

Relevant Experience

Environmental Assessment for MTSU Development | *Shelbyville Municipal Airport*
Senior Environmental Scientist for completion of an EA for the Middle Tennessee State University (MTSU) Aviation Facility. Responsibilities included leading EA development, coordinating field work and wetland and stream delineation, conducting noise study, coordinating with agencies, and managing team of environmental scientists.

Environmental Assessment | *Muhlenberg County Airport*
Senior Environmental Scientist responsible for co-authoring a short-form EA for a corporate hangar and fixed wing flight school facility project. Responsibilities included coordination with airport director and local, state, and federal agencies. Served as primary field biologist for completion of wetland delineation. Project includes alternatives analysis and completion of an EA with FAA as the lead federal agency.

Environmental Assessment | *Madisonville Regional Airport*
Senior Environmental Scientist responsible for co-authoring an EA for the hangar improvements to accommodate a flight training program. Responsibilities included overall environmental project management, EA development, oversight of agency coordination and field studies, noise study, quality control reviews, coordination with FAA, and public advertisement of the environmental documents.

Environmental Assessment | *Cynthiana-Harrison County Airport*
Senior Environmental Scientist responsible for co-authoring an EA for a runway obstruction removal. Responsibilities included coordination with airport director and local, state, and federal agencies, including USFWS as well as consultant coordination for threatened and endangered species bat surveys, cultural historic properties and archaeological surveys. Served as the primary field biologist for wetland delineation.

Environmental Assessment | *Music City Executive Airport*
Senior Environmental Scientist responsible for completion of a focused EA for land acquisition. Responsibilities included project management, EA development, oversight of agency coordination and field studies, quality control reviews, coordination with TDOT Aeronautics Division, and public advertisement of the environmental documents.