# Kentucky Transportation Cabinet
# Expedited Bridge Replacement Study

## PROJECT INFORMATION

**County:** Simpson
**Road Name:** Sulphur Springs Road
**Route Number:** KY 664
**Bridge ID:** 107B00019N
**Bridge MP:** 4.415

**Highway Plan Project Description:**
example: REPLACE BRIDGE ON KY 664 (SULPHUR SPRINGS RD) OVER JOHNSON CREEK, 0.11 MI WEST OF KY 1885; (A42STRUCTURALLY DEFICIENT, SR = 43.7) 107B00019N
Milepoint: 4.415

- [x] Roadway classified as collector or local.
- [x] ADT less than 1,500.
- [x] Bridge replacement at current location or adjacent to existing bridge.
- [x] Temporary Traffic Control maintained on existing structure: part-width construction or adjacent temporary traffic control. **detour 8.00 miles**
- [x] Existing structure's hydraulic performance is adequate.
- [x] Proposed project is not in a FEMA Zone AE regulatory area. Although the project is in a FEMA Zone AE, Central Office Drainage Branch has reviewed the site and approved its inclusion.

## Categorical Exclusion Level 1

**Potential for Effects Resulting from Project** ☐ None ☑ Low ☐ High

(If effects potential is low or high, describe how project meets CE criteria and means to address outstanding issues)

Prior to construction a IBPMOA will be completed for the Indiana Bat using either payment to the IBCF or tree cutting restrictions as Allen County only has Potential for IB Habitat. An assume presence BA will be completed for the Gray Bat to include Best Management Practices to miniumize stream impacts. There is an old barn in the vicnity of the project area but the current plan is to keep off the structure. Rebecca Turner DEA SME states the bridge is not eligible.

- [x] Reevaluation required prior to construction

The project described above has been determined to meet the Categorical Exclusion criteria established in 23 CFR 771.17 and the FHWA/KYTC Categorical Exclusion Agreement.

Approved by: Renee Slaughter — District Environmental Coordinator — Date: 10-15-2013

- [x] Yes, this project meets the conditions for being an Expedited Bridge Replacement Project.

Recommended by: _____ District TEBM for Project Development

Approved by: _____ Director, Division of Planning

*Programming Information*

*Item No:* _____ *Federal Project No.:* _____
*Program No.:* _____ *UPN:* (Function) (County #) (Route) (MP to & from)



*Version 9-20*

# Kentucky Transportation Cabinet
# Expedited Bridge Replacement Study

## I. PROJECT DATA

County: Simpson

Bridge ID: 107B00019N

Road Name: Sulphur Springs Road

Bridge MP: 4.415

Route Number: KY 664

Functional Class.: ☐ Local ☑ Collector ☐ Urban ☑ Rural

Route on ☐ NHS

Truck Class.: A

% Trucks: _____

Terrain: Level

ADT (current): 470 (2010)

MPO Area: Not Applicable

Existing Bike Accommodations: Shared Lane

Ped: ☐ Sidewalk

| Roadway Data: | Existing |
|---|---|
| No. of Lanes | 2 |
| Lane Width | 8 |
| Shoulder Width | 4 |
| Max. Superelevation | |
| Minimum Radius | |
| Maximum Grade | |
| Minimum Sight Dist. | |
| Sidewalk Width(urban) | |
| Clear-zone | |

Bridge Data:

| | |
|---|---|
| Bridge Number | 107B00019N |
| Sufficiency Rating | 43.7 |
| Total Length | 32 |
| Width, curb to curb | 22.5 |
| Span Lengths | 32 |
| Year Built | 1959 |
| Posted Weight Limit | |
| Structurally Deficient? | yes |
| Functionally Obsolete? | yes |

Existing Rdwy. Plans available?

☐ Yes ☑ No

Year of Plans: _____

Existing Geotech data available?

☐ Yes ☐ No

Notes:

## II. PROJECT SUMMARY

### A. Purpose, Need & Project Estimate

In order to maintain connectivity, the purpose of the project is to replace the deficient bridge.

**Project Estimate**

| Phase | Estimate |
|---|---|
| Design | $250,000 |
| R/W | $75,000 |
| Utilites | $75,000 |
| Const | $300,000 |
| **TOTAL** | **$700,000** |

### B. Project Approach

The existing bridge is 24.5’ x 32’ at a 30 degree skew and has a surface area of 784 sf . The proposed bridge is 28’ x 32’ with a 30 degree skew and has a surface area of 896sf. This will allow for two 12’ lanes and a 2’ shoulder on both sides across the bridge. There will be very little approach and earthwork needed because the existing bridge approaches are fairly flat. I estimated that very little R/W will be needed if any at all: Approximately 0.20 acres all agricultural, 4 or less parcels. There is a barn that would impacted if the proposed R/W line is extended. I feel that we can avoid any disturbance of the barn. We may be able to get by with just using temporary easement. The construction estimate came in at $240,000. If a diversion is used to keep traffic open the estimate is $290,000. This would also greatly impact Right of Way costs. As far as Utility impacts, there is a utility pole with several lines located in close proximity to the existing bridge that will be affected. There is a fire hydrant and water line marker in the intersection of KY 1885 that shouldn’t be affected, however underground utilities may exist and be affected along the project.

**III. Photos and/or Maps**

## IV. Categorical Exclusion Level 1
## Summary

**Effects Potential (scale of effects and potential to influence project schedule)**

| | |
|---|---|
| None | Potential to significantly affect Air Quality |
| None | Potential to significantly affect any cultural or archaeological resources |
| Low | Potential to affect historic properties or other Section 4(f) resources |
| | ☑ can be addressed through standard practices (programmatic agreements, deminimis, etc.) |
| Low | Potential to significantly impact any federally listed, threatened or endangered species |
| None | Potential to significantly effect properties with hazardous materials concerns |
| Low | Potential to significantly impact Waters of the U.S. or Commonwealth |
| None | Potential to significantly affect traffic noise |
| None | Potential to require relocations or other significant socioeconomic impacts (travel patterns, land use, or planned growth) |

### A. Air Quality

Project is in: ☑ Attainment area ☐ Nonattainment or Maintenance Area ☐ PM 2.5 County

☑ No potential to significantly affect Air Quality (attach PM 2.5 and MSAT documentation, as appropriate or note below intent to complete prior to construction)

This project is considered an exempt project per 40 CFR 93.126 (Safety - Reconstructing Bridge) and also because it has no meaningful impact on traffic volumes or traffic mix, and therefore, has no potential for meaningful MSAT impacts. The present ADT is 470. Air toxics analysis is an emerging field and current scientific techniques, tools and data are not sufficient to accurately estimate human health impacts that would result from a transportation project in a way that would be useful to decision-makers. Appendix C of FHWA's "Interim Guidance on Air Toxic Analysis in NEPA Documents" should be consulted for further information.

### B. Archaeology

| | Yes | No |
|---|---|---|
| 1) Is all area to be affected by the project previously disturbed or within existing ROW? (If YES, STOP- Bridge is unlikely to adversely affect archaeological resources) | ☐ | ☑ |
| 2) Are known archaeological sites present (project may potentially affect archaeological resources; Discuss with SME and provide comment below) | ☐ | ☑ |

☑ No effect to archaeological resources

☐ Archaeological resources may be present; investigation to be completed during detailed design. Impacts to archaeological resources are not expected and should not impede project development.

☐ Archaeological impacts are of such potential complexity project schedule is likely to be adversely affected.

Verifed by Archaelogist SME James Hixon

### C. Threatened and Endangered Species

| | Yes | No |
|---|---|---|
| 1) Is the bridge over a KY DOW Special Use Water or within designated critical habitat? (If YES, STOP- Not eligible for EBRP; If NO, continue) | ☐ | ☑ |
| 2) Does the county have federally listed fish and mussel species? (If NO, STOP; If YES, continue) | ☑ | ☐ |
| 3) Does the bridge cross a stream with perennial flow? (If NO, STOP - No effect for mussels/fish species; If YES, continue) | ☐ | ☑ |

4) Are any of the mussel/fish species typically found in smaller rivers and streams? (If NO, STOP; if YES, requires SME review to conduct Habitat Assessment) ☐ ☐

Additional Information required for possible effects assessment:

1) Will the bridge be replaced in the same location as existing?

2) Will the new bridge clear-span the stream?

☐ Biological concerns unlikely to impede project development (For all appropriate species, conduct Habitat Assessment/Biological Assessment prior to construction)

☐ Biological concerns are of such complexity that project schedule is likely to be adversely impacted

Federally listed T & E species for Simpson County: Gray Bat (GM -902), Indiana Bat ( IB-903), Fanshell (FSM-403), slabside earlymussel (SMP-411), ring pink mussel (RPM- 412), littlewing pearlymussel (LWMP-413), Sheepnose (SNM-415) and the fluted kidneyshell (FKM-419). This is not a perennial flow stream, therefore, not suitable habitat for listed mussels. Prior to construction a IBPMOA will be completed for the Indiana Bat using either payment to the IBCF or tree cutting restrictions as Allen County only has Potential for IB Habitat. An assume presence BA will be completed for the Gray Bat to include Best Management Practices to

| **D. Hazardous Materials** | Yes | No |
|---|---|---|
| 1) Are potentially contaminated sites present? | ☐ | ☑ |
| 2) Does bridge require inspection for asbestos containing materials? | ☐ | ☑ |

☑ Hazardous materials concerns are non-existent or routine in nature, will be addressed during detailed design and should not impede project development.

☐ Hazardous materials concerns are of such complexity that the project schedule is likely to be adversely affected.

Mortar on the abutments should be tested for asbestos containing materials

**E. Permitting**

Check all that may apply: ☑ Waters of the US ☐ MS4 area ☐ Floodplain Impacts ☐ Navigable Waters Impacted

Are 401/404 Permits likely to be required? ☑ Yes ☐ No Impacts to: ☐ Wetlands ☑ Stream/Lake/Pond

☑ ACE LON ☐ ACE NW ☐ General WQC ☐ TVA

| | Yes | No |
|---|---|---|
| 1) Will the project affect more than 300 lf of stream? (If YES, STOP- Not eligible for EBRP; If NO, continue) | ☐ | ☑ |
| 2) Will the project effect more than ½ acre of potential wetland? (If YES, STOP- Not eligible for EBRP; If NO, water related impacts not likely to impede project development) | ☐ | ☑ |

☑ Will not significantly impact Waters of the U.S. or Commonwealth. Stream and wetland impacts, if any, are routine in nature and will not require individual permits; Any required permits will be acquired during detailed design. Project development should not be impeded.

☐ Stream and/or wetland impacts exceed nationwide and general WQC thresholds. Project schedule is likely to be adversely impacted (Not eligible for EBRP).

The project is located on Johnson Creek at tributary to Special Use Stream Sulpur Springs Creek. The Special Use water is only several hundred feet away from project area. See Attached Map

| **F. Noise** | Yes | No |
|---|---|---|
| 1) Are existing or planned noise sensitive receptors adjacent to the proposed project? (If NO, STOP- No effect for Noise Impacts; If YES continue) | ☑ | ☐ |
| 2) Is this considered a "Type I Project" according to the KYTC Noise Analysis and Abatement Policy? | ☐ | ☑ |

☑ No noise related impacts predicted for the project

☐ Noise related impacts are unlikely but will be further assessed during detailed design prior to construction. Further assessment should not impede project development.

☐ Noise related impacts are of such complexity that project schedule is likely to be adversely affected.

There are two homes nearby and a church up the hill. Noise impacts are unlikely since we are replacing a bridge in the same location .

| **G. Socioeconomic** | Yes | No |
|---|---|---|
| 1) Are there any relocations required for construction of the project? (If YES, STOP- Does not meet criteria for EBRP; If NO Continue) | ☐ | ☑ |
| 2) Will project require more than approximately one acre of fee simple R/W? (If YES, STOP- Project Does not meet criteria for EBRP; If NO, continue) | ☑ | ☑ |

| | Yes | No |
|---|---|---|
| 3) Is ROW required from any federal agency? | ☐ | ☑ |
| 4) Will project cause disproportionately high and adverse effects on any minority or low-income population in accordance with the provision of E.O. 12898 and FHWA Order 6640.23 | ☐ | ☑ |
| 5) Will project significantly affect land use, travel patterns or planned growth? | ☐ | ☑ |

☑ Will have no significant Socioeconomic impacts

☐ Socioeconomic impacts are unlikely but will be further assessed during detailed design prior to construction. Further assessment should not impede project development.

☐ Socioeconomic impacts are of such complexity that project schedule may be adversely affected.

## H. Section 106, 4(f) or 6(f) Resources

| The following are present on the project: | Yes | No |
|---|---|---|
| 1) Does the project affect a park, wildlife refuge or recreation area (If YES, STOP- Not eligible for EBRP; If NO continue) | ☐ | ☑ |
| 2) Is the bridge a truss (If YES, STOP- Not eligible for EBRP; if NO continue) | ☐ | ☑ |
| 3) Is the bridge or do any of the surrounding properties appear to be greater than 50 years old? (If YES continue; If NO, STOP: No Effect to Historic Properties ) | ☑ | ☐ |
| 4) Was the bridge constructed after 1945? (If YES continue; If No, STOP- project will require SME review; If YES, continue) | ☑ | ☐ |
| 5) Is the bridge of a common type covered by the FHWA Program Comment? (If YES continue; If NO, STOP-project will require SME review) | ☐ | ☑ |
| 6) Are there any buildings or potentially important features (wells, barns, cemeteries, etc.) of the surrounding property that are more than 50 years old that will be impacted by the project (If YES, STOP - project will require SME review; If NO, STOP: No Effect/No Adverse Effect to historic properties) | ☑ | ☐ |

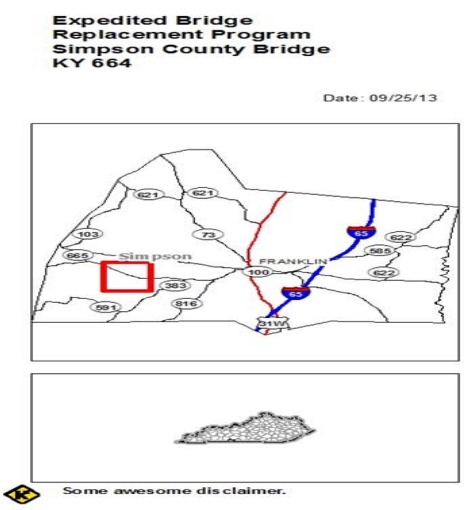
☐ No potential to affect cultural historic resources, Section 4(f) or Section 6(f) resources

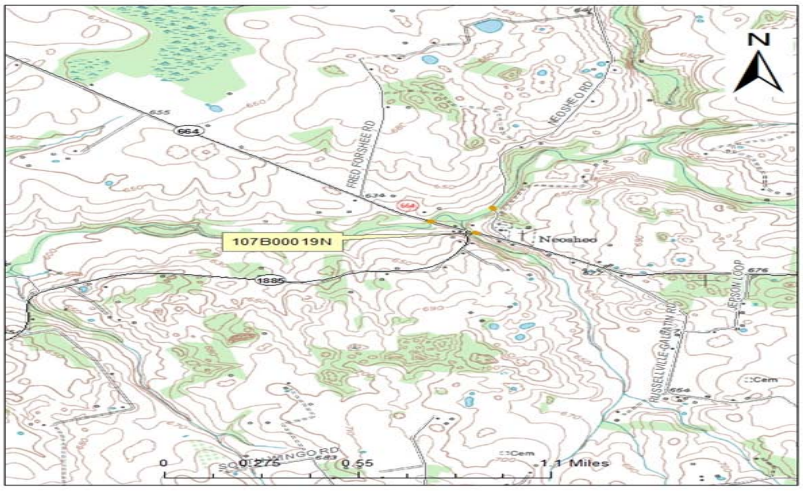
☑ No Potential to affect Section 4(f) or Section 6(f) resources other than cultural historic resources, which can be addressed through standard practices (Programmatic 4(f), deminimis, etc.) and should not impede project development

☐ Affects to cultural historic resources are of such complexity that the project schedule may be adversely affected

**There is an old barn in the vicnity of the project area but the current plan is to keep off the structure. Rebecca Turner DEA SME states the bridge is not eligible.**

## V. Additional Photos and/or Maps



# Kentucky Transportation Cabinet
# Federal Highway Administration

## NO EFFECT FINDING

U.S. Department of Transportation
Federal Highway Administration

| | | | |
|---|---|---|---|
| **KYTC Bridge No:** | 107B00019N | **Route:** | KY 664 |
| **Quadrangle(s):** | Prices Mill | **County(ies):** | Simpson |

**Project Description:** (Type of improvement, areas to be impacted, crossroad improvements, easements, etc.)

Replace bridge on KY 664 (Sulphur Springs RD) over Johnson Creek, 0.11 MI West of KY 1885; (A42Structurally Deficient, Safety Rating = 43.7) Bridge Number 107B00019N

**Listed Species:** (Attach copy of USFWS county list, KSNPC web site and KDFWR web site)
Indiana bat (*Myotis sodalis)* - USFWS,
Gray bat *(Myotis grisescens)* USFWS, KDFWR, KSPC
Fanshell Mussel (*Cyprogenia stegaria*) - USFWS
Slabside Pearlymussel *(Lexingtonia dolabelloides*) USFWS
Little Wing Pearlymussel *(Pegias fibula)* USFWS
Ring Pink *(Obovaria retusa)* USFWS
Sheepnose Mussel (*Plethobasus cyphyus*) - USFWS
Fluted Kidneyshell (*Ptychobranchus subtentum*) USFWS
**This No Effect document covers the listed freshwater mussels.**

**Methodologies:** (Methods of assessment, who, what, when, resources, etc.)

Arc Map (Aerial photos, topographic maps and proposed project plans) Site visit by DEC Renée Slaughter on September 30, 2013.

**Results:** (Compare habitat used by listed species with available habitat)

Mussels: The stream over which the project bridge crosses was dry during the site visit. The stream is classified as an intermediate stream. It's a very small stream. This listed mussel species require medium to large perennial streams. Therefore, there will be NO EFFECT to the listed mussel species.

**Determinations:**

The project has been assessed in accordance with the provisions of Section 7 of the Endangered Species Act. As a designated representative of the FHWA, the KYTC has determined that the project will have No Effect on any listed freshwater mussel species and or their critical habitat, and further Section 7(a)(2) consultation with the Service is not required.

Gina Renée Slaughter
KYTC Signature

October 11, 2013
Date

Renée Slaughter
Print Name

EATS updated

N/A
Name

October 11, 2013
Date

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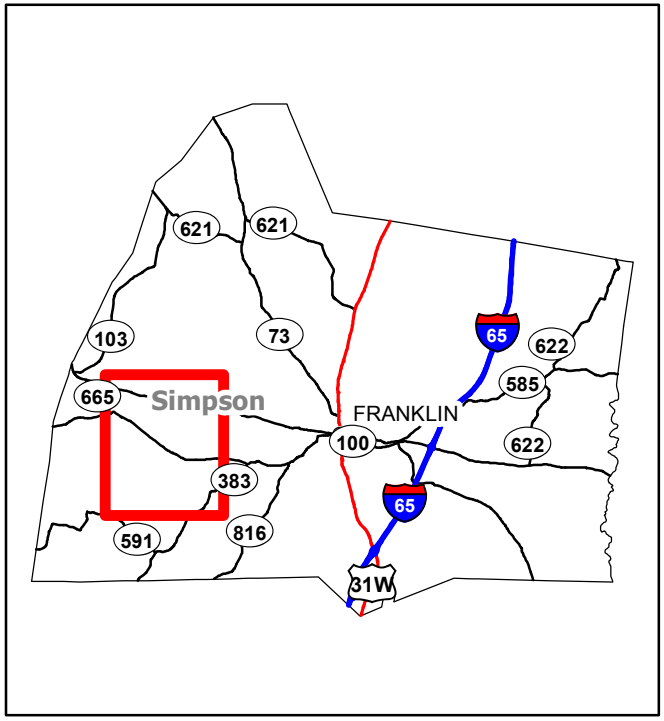
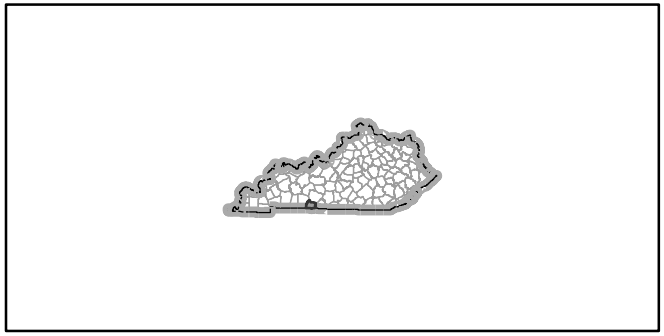
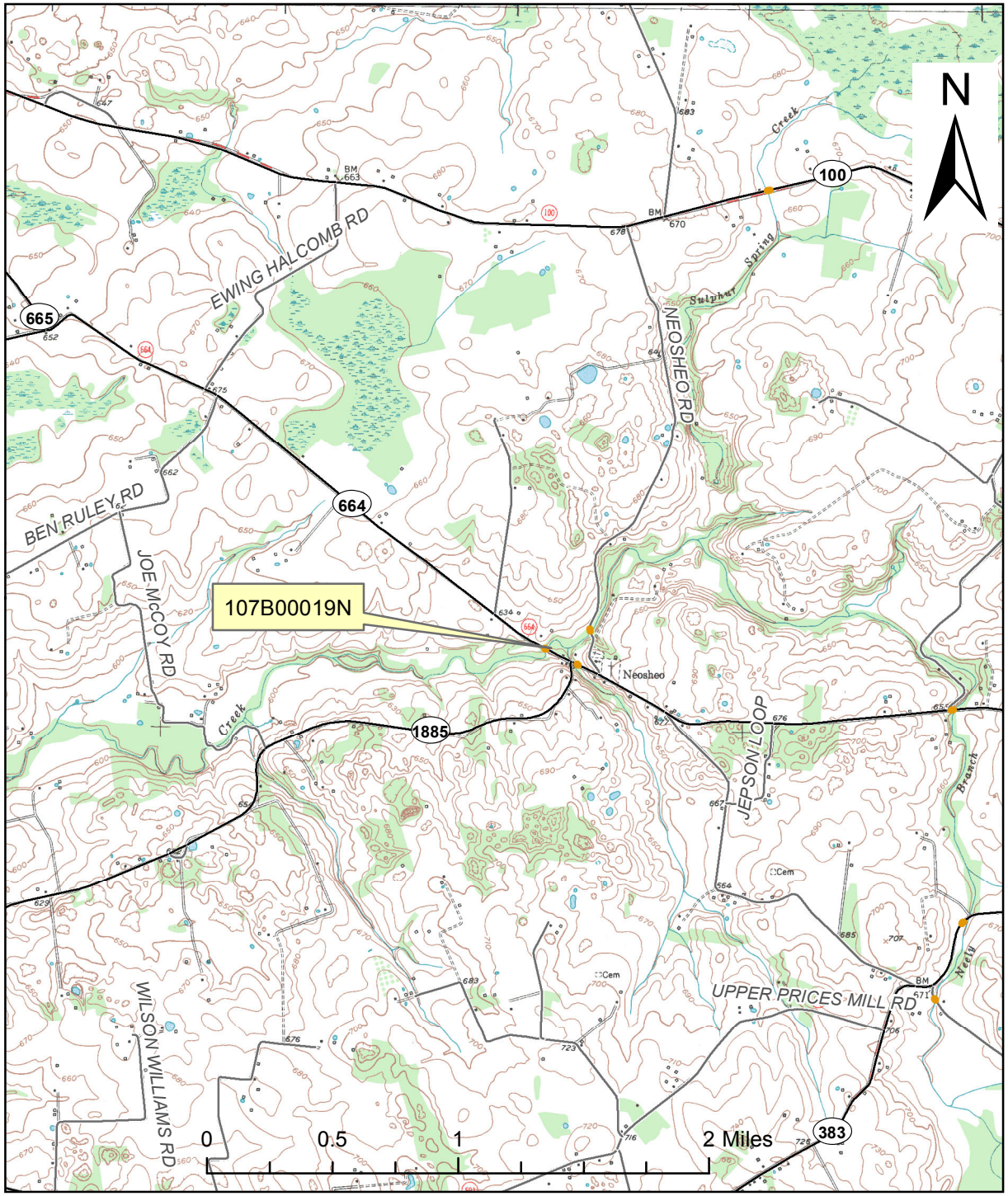
TONS

# Expedited Bridge Replacement Program
# Simpson County Bridge
# KY 664

Date: 09/25/13






Some awesome disclaimer.

U.S. Fish & Wildlife Service
Kentucky Ecological Services Field Office

U.S. Fish & Wildlife Service
330 West Broadway, Rm 265
Frankfort, KY 40601
Phone: 502-695-0468
Fax: 502-695-1024

**Endangered, Threatened, & Candidate Species in _____SIMPSON_____ County, KY**

| Group | Species | Common name | Legal* Status | Known** Potential | Special Comments |
|---|---|---|---|---|---|
| | | | | | |
| Mammals | *Myotis grisescens* | gray bat | E | K | |
| | *Myotis sodalis* | Indiana bat | E | P | |
| | | | | | |
| Mussels | *Cyprogenia stegaria* | fanshell | E | P | |
| | *Lexingtonia dolabelloides* | slabside pearlymussel | C | P | |
| | *Obovaria retusa* | ring pink | E | P | |
| | *Pegias fabula* | littlewing pearlymussel | E | P | |
| | *Plethobasus cyphyus* | sheepnose | C | P | |
| | *Ptychobranchus subtentum* | fluted kidneyshell | C | P | |
| | | | | | |
| | | | | | |
| | | | | | |

**NOTES:**

* Key to notations: E = Endangered, T = Threatened, C = Candidate, CH = Critical Habitat

**Key to notations: K = Known occurrence record within the county, P = Potential for the species to occur within the county based upon historic range, proximity to known occurrence records, biological, and physiographic characteristics.

# Species Information

**Federal Threatened, Endangered, and Candidate Species observations for selected counties**

Linked life history provided courtesy of NatureServe Explorer.
**Records may include both recent and historical observations.**
US Status Definitions  Kentucky Status Definitions

**List Federal Threatened, Endangered, and Candidate Species observations in 1 selected county.**
**Selected county is: Simpson.**

| Scientific Name and Life History | Common Name and Pictures | Class | County | US Status | KY Status | WAP | Reference |
|---|---|---|---|---|---|---|---|
| *Myotis grisescens* | Gray Myotis | Mammalia | Simpson | LE | T | Yes | Reference |

**1 species are listed**

# Report of
# Endangered, Threatened, and Special Concern
# Plants, Animals, and Natural Communities
# for Simpson County, Kentucky

**Kentucky State Nature Preserves**
**Commission**
**801 Schenkel Lane**
**Frankfort, KY 40601**
**(502) 573-2886 (phone)**
**(502) 573-2355 (fax)**

**www.naturepreserves.ky.gov**

# Kentucky State Nature Preserves Commission
# Key for County List Report

Within a county, elements are arranged first by taxonomic complexity (plants first, natural communities last), and second by scientific name. A key to status, ranks, and count data fields follows.

**STATUS**

KSNPC: Kentucky State Nature Preserves Commission status:

N or blank = none  E = endangered  T = threatened  S = special concern  H = historic  X = extirpated

USESA: U.S. Fish and Wildlife Service status:

blank = none  C = candidate  LT = listed as threatened  LE = listed as endangered
SOMC = Species of Management Concern

**RANKS**

GRANK: Estimate of element abundance on a global scale:

G1 = Critically imperiled
G2 = Imperiled
G3 = Vulnerable
G4 = Apparently secure
G5 = Secure
GH = Historic, possibly extinct
GX = Presumed extinct

GU = Unrankable
G#? = Inexact rank (e.g. G2?)
G#Q = Questionable taxonomy
G#T# = Infraspecific taxa (Subspecies and variety abundances are coded with a 'T' suffix; the 'G' portion of the rank then refers to the entire species)
GNR = Unranked
GNA = Not applicable

SRANK: Estimate of element abundance in Kentucky:

S1 = Critically imperiled
S2 = Imperiled
S3 = Vulnerable
S4 = Apparently secure
S5 = Secure
SH = Historic, possibly extirpated
SX = Presumed extirpated

SU = Unrankable
S#? = Inexact rank (e.g. G2?)
S#Q = Questionable taxonomy
S#T# = Infraspecific taxa
SNR = Unranked
SNA = Not applicable

Migratory species may have separate ranks for different population segments (e.g. S1B, S2N, S4M):
S#B = Rank of breeding population
S#N = Rank of non-breeding population
S#M = Rank of transient population

**COUNT DATA FIELDS**

# OF OCCURRENCES: Number of occurrences of a particular element from a county. Column headings are as follows:

E - currently reported from the county
H - reported from the county but not seen for at least 20 years
F - reported from county & cannot be relocated but for which further inventory is needed
X - known to have extirpated from the county
U - reported from a county but cannot be mapped to a quadrangle or exact location.

The data from which the county report is generated is continually updated. The date on which the report was created is in the report footer. Contact KSNPC for a current copy of the report.

Please note that the quantity and quality of data collected by the Kentucky Natural Heritage Program 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 species of plants and animals are still being discovered. For these reasons, the Kentucky Natural Heritage Program cannot provide a definitive statement on the presence, absence, or condition of biological elements in any part of Kentucky. Heritage reports summarize the existing information known to the Kentucky Natural Heritage Program at the time of the request regarding the biological elements or locations in question. They should never be regarded as final statements on the elements or areas being considered, nor should they be substituted for on-site surveys required for environmental assessments.

KSNPC appreciates the submission of any endangered species data for Kentucky from field observations. For information on data reporting or other data services provided by KSNPC, please contact the Data Manager at:

Kentucky State Nature Preserves Commission
801 Schenkel Lane
Frankfort, KY 40601
(502) 573-2886 (phone)
(502) 573-2355 (fax)
email: naturepreserves@ky.gov
internet: www.naturepreserves.ky.gov

| County | Taxonomic Group | Scientific name | Common name | Statuses | Ranks | # of Occurrences E | H | F | X | U |
|---|---|---|---|---|---|---|---|---|---|---|
| Simpson | Vascular Plants | *Draba cuneifolia* | Wedge-leaf Whitlow-grass | E / | G5 / S1 | 1 | 0 | 0 | 0 | 0 |
| Simpson | Vascular Plants | *Forestiera ligustrina* | Upland Privet | T / | G4G5 / S2S3 | 2 | 0 | 0 | 0 | 0 |
| Simpson | Vascular Plants | *Isoetes butleri* | Butler's Quillwort | E / | G4 / S1 | 1 | 0 | 0 | 0 | 0 |
| Simpson | Vascular Plants | *Leavenworthia torulosa* | Necklace Gladecress | T / | G4 / S2 | 2 | 1 | 0 | 0 | 0 |
| Simpson | Vascular Plants | *Malvastrum hispidum* | Hispid Falsemallow | T / | G3G5 / S2? | 1 | 1 | 0 | 0 | 0 |
| Simpson | Vascular Plants | *Oenothera triloba* | Stemless Evening-primrose | T / | G4 / S1S2 | 1 | 0 | 0 | 0 | 0 |
| Simpson | Vascular Plants | *Perideridia americana* | Eastern Yampah | T / | G4 / S2 | 1 | 0 | 0 | 0 | 0 |
| Simpson | Vascular Plants | *Silphium pinnatifidum* | Tansy Rosinweed | S / | G3Q / S3 | 1 | 0 | 0 | 0 | 0 |
| Simpson | Vascular Plants | *Sporobolus clandestinus* | Rough Dropseed | T / | G5 / S2S3 | 1 | 0 | 0 | 0 | 0 |
| Simpson | Vascular Plants | *Talinum calcaricum* | Limestone Fameflower | E / | G3 / S1 | 1 | 0 | 0 | 0 | 0 |
| Simpson | Aquatic Snails | *Leptoxis praerosa* | Onyx Rocksnail | S / SOMC | G5 / S3S4 | 1 | 0 | 0 | 0 | 0 |
| Simpson | Terrestrial Snails | *Rabdotus dealbatus* | Whitewashed Rabdotus | T / | G5 / S1S2 | 1 | 0 | 0 | 0 | 0 |
| Simpson | Freshwater Mussels | *Villosa ortmanni* | Kentucky Creekshell | T / SOMC | G2 / S2 | 4 | 0 | 1 | 0 | 0 |
| Simpson | Freshwater Mussels | *Villosa vanuxemensis vanuxemensis* | Mountain creekshell | T / | G4T4 / S2 | 1 | 0 | 0 | 0 | 0 |
| Simpson | Crustaceans | *Barbicambarus cornutus* | Bottlebrush Crayfish | S / | G4 / S2 | 2 | 0 | 0 | 0 | 0 |
| Simpson | Crustaceans | *Orconectes pellucidus* | Mammoth Cave Crayfish | S / SOMC | G4 / S3 | 0 | 0 | 1 | 0 | 0 |
| Simpson | Insects | *Batriasymmodes quisnamus* | A Cave Obligate Beetle | T / | G3G4 / S2S3 | 0 | 2 | 0 | 0 | 0 |
| Simpson | Fishes | *Etheostoma maculatum* | Spotted Darter | T / SOMC | G2 / S2 | 0 | 2 | 0 | 0 | 0 |
| Simpson | Fishes | *Noturus exilis* | Slender Madtom | E / | G5 / S1 | 1 | 0 | 0 | 0 | 0 |
| Simpson | Fishes | *Typhlichthys subterraneus* | Southern Cavefish | S / SOMC | G3G4 / S2S3 | 1 | 1 | 0 | 0 | 0 |
| Simpson | Amphibians | *Cryptobranchus alleganiensis alleganiensis* | Eastern Hellbender | S / SOMC | G3G4T3T4 / S3 | 1 | 0 | 0 | 0 | 0 |
| Simpson | Breeding Birds | *Anas discors* | Blue-winged Teal | T / | G5 / S1S2B | 1 | 0 | 0 | 0 | 0 |
| Simpson | Breeding Birds | *Thryomanes bewickii* | Bewick's Wren | S / SOMC | G5 / S3B | 1 | 0 | 0 | 0 | 0 |
| Simpson | Breeding Birds | *Tyto alba* | Barn Owl | S / | G5 / S3 | 1 | 0 | 0 | 0 | 0 |
| Simpson | Mammals | *Myotis grisescens* | Gray Myotis | T / LE | G3 / S2 | 3 | 0 | 0 | 0 | 0 |
| Simpson | Communities | *Limestone flat rock glade* | | / | GNR / S1 | 1 | 0 | 0 | 0 | 0 |
| **Simpson County Total:** | | | | | | **31** | **7** | **2** | **0** | **0** |