

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

Scott E. Bennett
Director
Telephone (501) 569-2000
Voice/TTY 711



P.O. Box 2261
Little Rock, Arkansas 72203-2261
Telefax (501) 569-2400
www.arkansashighways.com

July 12, 2017

Mr. Angel Correa
Division Administrator
Federal Highway Administration
700 West Capitol, Room 3130
Little Rock, Arkansas 72201-3298

Re: Job Number 100870
FAP Number NHPP-0028(44)
Bridge Numbers M3818, M3220, &
M3222
Hwy. 34 Strs. & Apprs. (S)
Greene County
Tier 3 Categorical Exclusion

Dear Mr. Correa:

The Environmental Division has reviewed the referenced project and it falls within the definition of the Tier 3 Categorical Exclusion as defined by the AHTD/FHWA Memorandum of Agreement on the processing of Categorical Exclusions. The following information is included for your review and, if acceptable, approval as the environmental documentation for this project.

The purpose of this project is to replace three structurally deficient bridges on Highway 34 near the City of Marmaduke in Greene County. The total length of the project is approximately 0.46 mile. A project location map is enclosed.

The existing roadway consists of two 10-foot wide paved travel lanes with 2-foot wide paved shoulders. The existing right of way width along the route is approximately 80 feet. Information about the existing structures is provided in Table 1.

Proposed roadway improvements will include two 11-foot wide paved travel lanes with 4-foot wide shoulders. New right of way width will average 130 feet. Information about the proposed structures is provided in Table 2. The proposed structures will be built on the existing location and detours used to maintain traffic during construction.

Table 1			
Bridge Number	Stream	Sufficiency Rating	Existing Structure
M3220	Hurricane Ditch	26.7	29' x 132' concrete deck on steel beams supported by timber pile bents
M3818	Big Slough Ditch	39.3	25' x 169' concrete deck on steel beams and main span truss supported by timber pile bents
M3222	Cottonwood Slough	22.4	29' x 58' concrete deck on timber beams supported by timber pile bents

Table 2		
Stream	Proposed Structure	Location of Detour/ Length
Hurricane Ditch	33' x 140' continuous composite integral W-beam on steel shell pile bents	50' downstream/ 952'
Big Slough Ditch	33' x 196' continuous composite integral W-beam on steel shell pile bents	50' upstream/ 1,357'
Cottonwood Slough	Triple 10' x 5' x 72' R.C. box culvert	65' downstream/ 1,000'

Design data for this project is as follows:

Design Year	Average Daily Traffic	Percent Trucks	Design Speed
2018	860	7	55 mph
2038	1,100	7	55 mph

There are no relocatees, wetlands, noise, or environmental justice issues associated with this project. Approximately 2.2 acres of new right of way will be required to construct this project, of which 0.7 acre is prime farmland. Form NRCS-CPA-106 is enclosed. Field inspections found no evidence of existing underground storage tanks or hazardous waste deposits. No impacts to cultural resources are anticipated; concurrence from the State Historic Preservation Officer is enclosed.

There are no wetlands associated with this project. Impacts at each of the crossings should be less than 0.1 acre. Construction in and across Hurricane Ditch, Big Slough Ditch, and

Cottonwood Slough should be allowed under terms of a Nationwide Permit 14 for Linear Transportation Projects as defined in the Federal Register 82 (4): 1860-2008.

The United States Fish and Wildlife Service's (USFWS) Information IPaC database determined that the Indiana bat (*Myotis sodalis*), fat pocketbook mussel (*Potamilus capax*), rabbitsfoot mussel (*Quadrula cylindrica cylindrica*), scaleshell mussel (*Letodea leptodon*), and pondberry (*Lindera melissifolia*) may occur within the project area. Based on limited/suitable habitat and distance to known species locations it is determined that the project will have no effect on rabbitsfoot mussel, scaleshell mussel, and pondberry. Our records (2016 mussel database) indicate that *Potamilus capax* nearest occurrence is approximately 15 miles southeast within the adjacent 8-digit HUC (Little River Ditches) in Mississippi County, AR. The nearest records within the St. Francis HUC are 45 miles downstream near the confluence with the Little River Ditches; therefore, it is determined that the project is not likely to adversely affect the fat pocketbook mussel. A determination is made that the proposed project is not likely to adversely affect the Indiana bat based on limited habitat. The USFWS concurred on May 23, 2017 (enclosed).


Greene County participates in the National Flood Insurance Program. All of the floodplain encroachments within this highway construction project will be designed to comply with the county's local flood damage prevention ordinance. The project lies within the Zone A, Special Flood Hazard Area. The final project design will be reviewed to confirm that the design is adequate and that the potential risk to life and property are minimized. Adjacent properties should not be impacted nor have a greater flood risk than existed before construction of the project. None of the encroachments will constitute a significant floodplain encroachment or a significant risk to property or life.

If you have any questions, please contact the Environmental Division at 569-2281.

Sincerely,

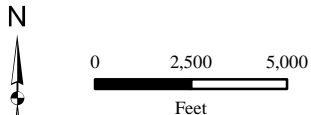
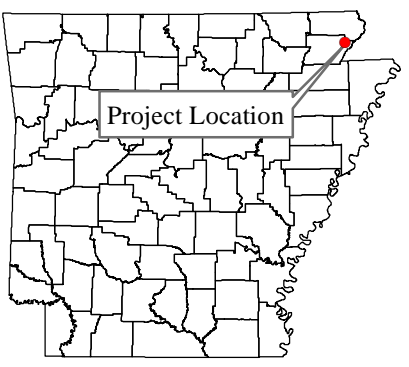
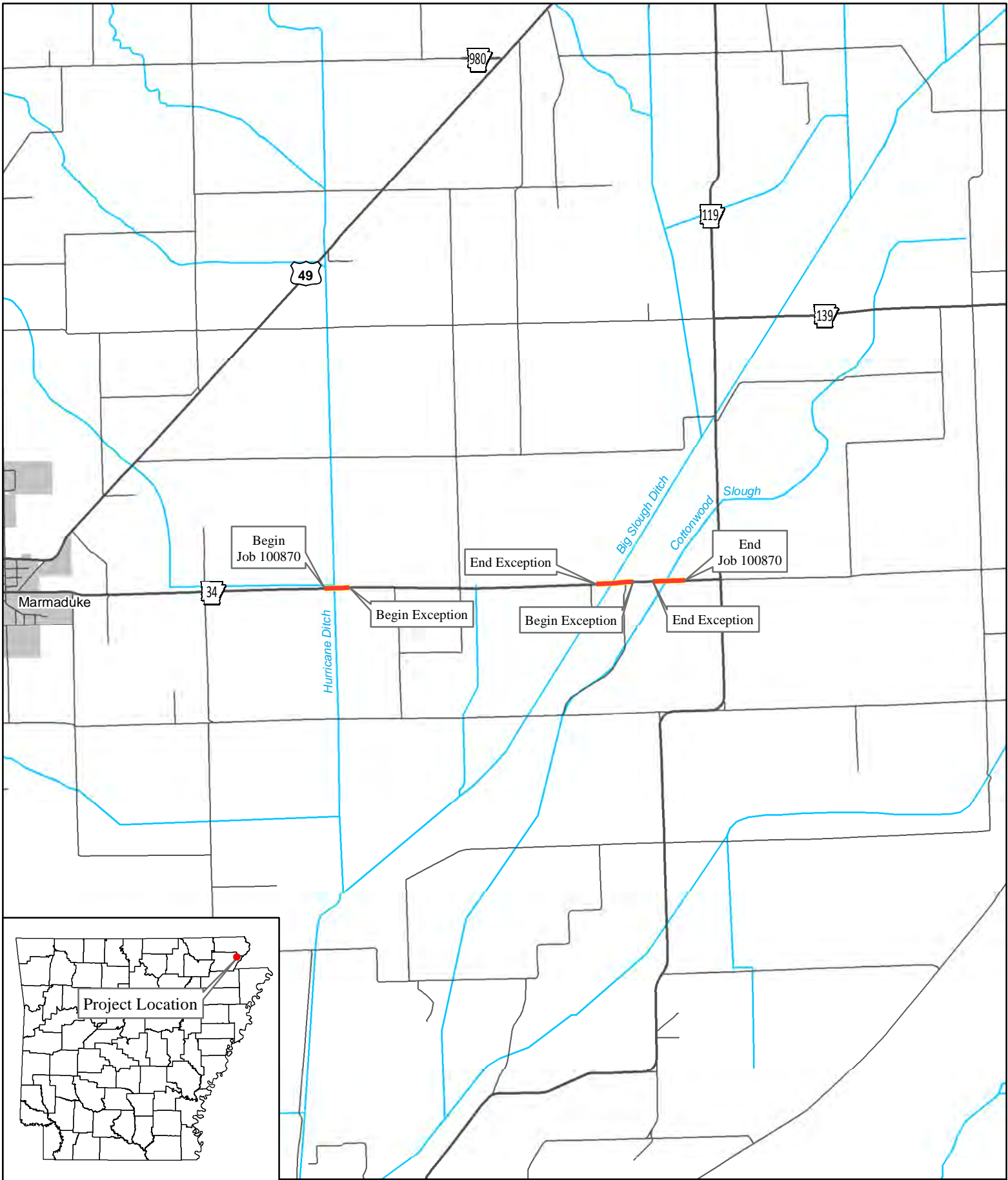
APPROVED

Environmental Specialist
Federal Highway Administration
Date: 7/13/2017



for John Fleming
Division Head
Environmental Division

Enclosures
JF:SL:fc

c: Program Management
Right of Way
Roadway Design
District 10
Master File



Job 100870
 Hwy. 34 Strs. & Apprs.
 Greene County

 Project Location



THE DEPARTMENT OF ARKANSAS
HERITAGE

Asa Hutchinson
Governor

Stacy Hurst
Director

July 6, 2017

Mr. John Fleming
Division Head
Environmental Division
Arkansas State Highway and Transportation Department
PO Box 2261
Little Rock, AR 72203-2261

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JUL 11 2017

ENVIRONMENTAL
DIVISION

Arkansas Arts Council

Arkansas Natural
Heritage Commission

Arkansas State Archives

Delta Cultural Center

Historic Arkansas Museum

Mosaic Templars
Cultural Center

Old State House Museum

RE: Greene County – General
Section 106 Review – FHWA
Request for Technical Assistance
AHTD Job Number 100870
Hwy. 34 Strs. & Apprs. (S)
AHPP Tracking Number 98282.02

Dear Mr. Fleming:

Thank you for submitting additional information on AHTD Bridge M3818. The staff of the Arkansas Historic Preservation Program (AHPP) has reviewed this document and acknowledges that the 80' Parker pony truss bridge was moved from an unknown location in 1974 and that there have been alterations to the end verticals. Therefore, we concur that AHTD Bridge M3818 is not eligible for listing in the National Register of Historic Places (NRHP) and this undertaking will have no effect on historic properties.

However, before the bridge is marketed, moved, or demolished, we are requesting a completed Arkansas Architectural Resource Form and thorough photo-documentation to accompany the known written history of the bridge.

Tribes that have expressed an interest in the area include the Delaware Nation (Mr. Jason Ross), the Osage Nation (Dr. Andrea Hunter), the Quapaw Tribe of Oklahoma (Mr. Everett Bandy), and the Shawnee Tribe of Oklahoma (Ms. Kim Jumper). We recommend that they be consulted in accordance with 36 CFR § 800.2 (c) (2).

Once the undertaking is further along in the planning stages, we look forward to reviewing the proposed project. If you should have any questions or comments, please do not hesitate to contact Theresa Russell of my staff at (501)-324-9357.

Sincerely,


Marian Boyd
Interim Director, AHPP

cc: Mr. Randal Looney, Federal Highway Administration
Dr. Andrea Hunter, Osage Nation
Dr. Ann Early, Arkansas Archeological Survey



ARKANSAS HISTORIC
PRESERVATION PROGRAM



1100 North Street
Little Rock, AR 72201

(501) 324-9880
fax: (501) 324-9184
tdd: 711

e-mail:
info@arkansaspreservation.org
website:
www.arkansaspreservation.com

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United States Department of the Interior



FISH AND WILDLIFE SERVICE
Arkansas Ecological Services Field Office
110 South Amity Suite 300
Conway, AR 72032-8975
Phone: (501) 513-4470 Fax: (501) 513-4480
<http://www.fws.gov/arkansas-es>

In Reply Refer To:

May 25, 2017

Consultation Code: 04ER1000-2017-SLI-0807

Event Code: 04ER1000-2017-E-01099

Project Name: 100870 Highway 34 Strs. & Apprs.

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

To Whom It May Concern:

The enclosed species list identifies endangered, threatened, 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.). **This letter only provides an official species list and technical assistance; if you determine that listed species and/or designated critical habitat may be affected in any way by the proposed project, even if the effect is wholly beneficial, consultation with the Service will be necessary.**

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. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found on our website.

Please visit our website at <http://www.fws.gov/arkansas-es/IPaC/home.html> for species-specific guidance to avoid and minimize adverse effects to federally endangered, threatened, proposed, and candidate species. Our web site also contains additional information on species life history and habitat requirements that may be useful in project planning.

If your project involves in-stream construction activities, oil and natural gas infrastructure, road construction, transmission lines, or communication towers, please review our project

specific guidance at <http://www.fws.gov/arkansas-es/IPaC/ProjSpec.html>.

The karst region of Arkansas is a unique region that covers the **northern third of Arkansas** and we have specific guidance to conserve sensitive cave-obligate and bat species. **Please visit <http://www.fws.gov/arkansas-es/IPaC/Karst.html> to determine if your project occurs in the karst region and to view karst specific-guidance.** Proper implementation and maintenance of best management practices specified in these guidance documents is necessary to avoid adverse effects to federally protected species and often avoids the more lengthy formal consultation process.

If your species list includes any mussels, Northern Long-eared Bat, Indiana Bat, Yellowcheek Darter, Red-cockaded Woodpecker, or American Burying Beetle, your project may require a presence/absence and/or habitat survey prior to commencing project activities. Please check the appropriate species-specific guidance on our website to determine if your project requires a survey. We strongly recommend that you contact the appropriate staff species lead biologist (see office directory or species page) prior to conducting presence/absence surveys to ensure the appropriate level of effort and methodology.

Under the ESA, it is the responsibility of the Federal action agency or its designated representative to determine if a proposed action "may affect" endangered, threatened, or proposed species, or designated critical habitat, and if so, to consult with the Service further. Similarly, it is the responsibility of the Federal action agency or project proponent, not the Service, to make "no effect" determinations. If you determine that your proposed action will have "no effect" on threatened or endangered species or their respective critical habitat, you do not need to seek concurrence with the Service. Nevertheless, it is a violation of Federal law to harm or harass any federally-listed threatened or endangered fish or wildlife species without the appropriate permit.

Through the consultation process, we will analyze information contained in a biological assessment that you provide. If your proposed action is associated with Federal funding or permitting, consultation will occur with the Federal agency under section 7(a)(2) of the ESA. Otherwise, an incidental take permit pursuant to section 10(a)(1)(B) of the ESA (also known as a habitat conservation plan) is necessary to harm or harass federally listed threatened or endangered fish or wildlife species. In either case, there is no mechanism for authorizing incidental take "after-the-fact." For more information regarding formal consultation and HCPs, please see the Service's Consultation Handbook and Habitat Conservation Plans at www.fws.gov/endangered/esa-library/index.html#consultations.

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 ECOS-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 ECOS-IPaC system by completing the same process used to receive the enclosed list.

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 Tracking Number 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:

Arkansas Ecological Services Field Office

110 South Amity Suite 300

Conway, AR 72032-8975

(501) 513-4470

Project Summary

Consultation Code: 04ER1000-2017-SLI-0807

Event Code: 04ER1000-2017-E-01099

Project Name: 100870 Highway 34 Strs. & Apprs.

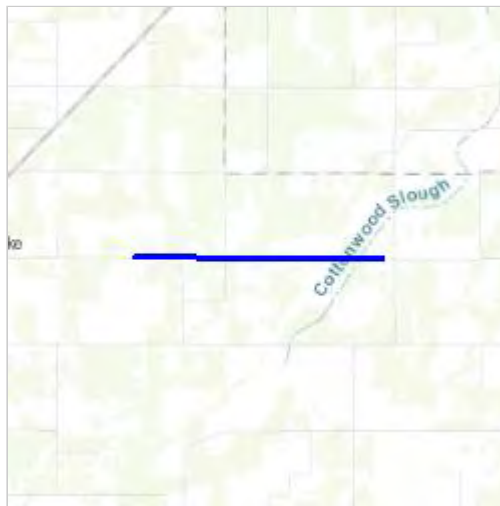
Project Type: BRIDGE CONSTRUCTION / MAINTENANCE

Project Description: Replacement of three structures including Hurricane Ditch, Big Slough Ditch, and Cottonwood Slough.

Project Location:

Approximate location of the project can be viewed in Google Maps:

<https://www.google.com/maps/place/36.186270692565486N90.31383991634357W>



Counties: Greene, AR

Endangered Species Act Species

There is a total of 5 threatened, endangered, or candidate species on your 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. See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area. Please contact the designated FWS office if you have questions.

Mammals

NAME	STATUS
Indiana Bat (<i>Myotis sodalis</i>) No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/5949	Endangered

Clams

NAME	STATUS
Fat Pocketbook (<i>Potamilus capax</i>) No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/2780	Endangered
Rabbitsfoot (<i>Quadrula cylindrica cylindrica</i>) There is a final critical habitat designated for this species. Your location is outside the designated critical habitat. Species profile: https://ecos.fws.gov/ecp/species/5165	Threatened
Scaleshell Mussel (<i>Leptodea leptodon</i>) No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/5881	Endangered

Flowering Plants

NAME	STATUS
Pondberry (<i>Lindera melissifolia</i>) No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/1279	Endangered

Critical habitats

There are no critical habitats within your project area.

From: [Bailey, William](#)
To: [Seagraves, Josh](#); [Mendoza, Yulissa M.](#)
Subject: FW: 100870 ES Concurrence
Date: Wednesday, May 24, 2017 6:11:02 AM

Please save in the SS Folder

From: Lewis, Lindsey [mailto:lindsey_lewis@fws.gov]
Sent: Tuesday, May 23, 2017 8:53 AM
To: Bailey, William
Subject: Re: 100870 ES Concurrence

Bill,

The Service does not have any information indicating that there are any federally listed species in the affected area of this action due to the habitat type, disturbed environment, and distance to any known species locations. Therefore, the Service concurs with AHTD's assessment and determination.

Thanks,

Lindsey Lewis
Biologist

US Fish & Wildlife Service
Arkansas Field Office
110 South Amity Rd., Suite 300
Conway, Arkansas 72032

(501) 513-4489 - voice
(501) 513-4480 - fax
Lindsey_Lewis@fws.gov
<http://www.fws.gov/arkansas-es/>

NOTE: This email correspondence and any attachments to and from this sender is subject to the Freedom of Information Act (FOIA) and may be disclosed to third parties.

On Tue, May 16, 2017 at 2:59 PM, Bailey, William <William.Bailey@ahtd.ar.gov> wrote:

Lindsey.....please take a look at the google earth kmz file attached and let us know if you concur with our determination. The project proposes to replace 3 bridges on Hwy. 34 in Greene County. The 3 bridges are located east of Marmaduke. The proposed construction will replace the Cottonwood Slough bridge with a box culvert and Hurricane Ditch and Big Slough Ditch with new bridges. The IPaC database determined that Indiana Bat (*Myotis sodalis*), Fat Pocketbook Mussel (*Potamilus capax*), Rabbitsfoot Mussel (*Quadrula cylindrica cylindrica*), Scaleshell Mussel (*Letodea leptodon*), and Pondberry (*Lindera melissifolia*) may occur within the project area. Based on limited/suitable habitat and distance to known species locations we have determined that the project will have no effect on Rabbitsfoot Mussel, Scaleshell Mussel, and Pondberry.

Our records (2016 mussel database) indicate that *Potamilus capax* nearest occurrence is approximately 15 miles southeast within the adjacent 8-digit HUC (Little River Ditches) in Mississippi County, AR. The nearest records within the St. Francis HUC are 45 miles downstream near the confluence with the Little River Ditches. Based on proximity to the nearest known species, we determine the project is not likely to adversely affect the Fat

Pocketbook Mussel. Based on limited habitat (primarily agricultural land) and impacting less than 0.25 acre of trees, we determine that the proposed project is not likely to adversely affect the Indiana Bat.

For some reason it is not allowing me to italicize the scientific names.

**FARMLAND CONVERSION IMPACT RATING
FOR CORRIDOR TYPE PROJECTS**

PART I (To be completed by Federal Agency) Job 100870		3. Date of Land Evaluation Request 5/4/17	4. Sheet 1 of _____
1. Name of Project Hwy 34 Strs. Apprs.		5. Federal Agency Involved FHWA	
2. Type of Project Bridge replacement		6. County and State Greene AR.	
PART II (To be completed by NRCS)		1. Date Request Received by NRCS	2. Person Completing Form
3. Does the corridor contain prime, unique statewide or local important farmland? (If no, the FPPA does not apply - Do not complete additional parts of this form). YES NO		4. Acres Irrigated Average Farm Size	
5. Major Crop(s)	6. Farmable Land in Government Jurisdiction Acres: %	7. Amount of Farmland As Defined in FPPA Acres: %	
8. Name Of Land Evaluation System Used	9. Name of Local Site Assessment System	10. Date Land Evaluation Returned by NRCS	

PART III (To be completed by Federal Agency)	Alternative Corridor For Segment			
	Corridor A	Corridor B	Corridor C	Corridor D
A. Total Acres To Be Converted Directly				
B. Total Acres To Be Converted Indirectly, Or To Receive Services				
C. Total Acres In Corridor				

PART IV (To be completed by NRCS) Land Evaluation Information				
A. Total Acres Prime And Unique Farmland	0.7			
B. Total Acres Statewide And Local Important Farmland				
C. Percentage Of Farmland in County Or Local Govt. Unit To Be Converted				
D. Percentage Of Farmland in Govt. Jurisdiction With Same Or Higher Relative Value				

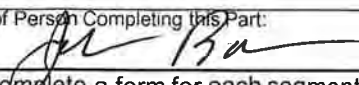
PART V (To be completed by NRCS) Land Evaluation Information Criterion Relative value of Farmland to Be Serviced or Converted (Scale of 0 - 100 Points)

PART VI (To be completed by Federal Agency) Corridor Assessment Criteria (These criteria are explained in 7 CFR 658.5(c))	Maximum Points			
1. Area in Nonurban Use	15	15		
2. Perimeter in Nonurban Use	10	10		
3. Percent Of Corridor Being Farmed	20	20		
4. Protection Provided By State And Local Government	20	0		
5. Size of Present Farm Unit Compared To Average	10	0		
6. Creation Of Nonfarmable Farmland	25	0		
7. Availability Of Farm Support Services	5	5		
8. On-Farm Investments	20	0		
9. Effects Of Conversion On Farm Support Services	25	0		
10. Compatibility With Existing Agricultural Use	10	0		
TOTAL CORRIDOR ASSESSMENT POINTS	160	50		

PART VII (To be completed by Federal Agency)				
Relative Value Of Farmland (From Part V)	100	100		
Total Corridor Assessment (From Part VI above or a local site assessment)	160	50		
TOTAL POINTS (Total of above 2 lines)	260	150		

1. Corridor Selected: <input checked="" type="checkbox"/> New <input type="checkbox"/> Existing Location Adjacent to existing	2. Total Acres of Farmlands to be Converted by Project: .0.7 acres of Prime Farmland	3. Date Of Selection:	4. Was A Local Site Assessment Used? YES <input type="checkbox"/> NO <input type="checkbox"/>
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5. Reason For Selection:

Signature of Person Completing this Part:  DATE 5/31/17

NOTE: Complete a form for each segment with more than one Alternate Corridor

AHTD ENVIRONMENTAL IMPACTS ASSESSMENT FORM

AHTD Job Number 100870 FAP Number NHPP-0028 (44)
 Job Title Hwy. 34 Strs. & Apprs. (S)

Environmental Impacts	None	Minor	Significant	Comments
Air Quality	X			
Construction Impacts		X		Temporary
Cultural Resources	X			
Economic	X			
Endangered Species	X			
Energy Resources	X			
Environmental Justice/Title VI	X			
Fish and Wildlife	X			
Floodplains		X		100-year floodplain
Forest Service Property	X			
Hazardous Materials/Landfills	X			
Land Use Impacts	X			
Migratory Birds		X		Bird SP needed
Navigation/Coast Guard	X			
Noise Levels	X			
Prime Farmland		X		0.7 acre of prime farmland
Protected Waters	X			
Public Recreation Lands	X			
Public Water Supply/WHPA	X			
Relocatees	X			
Section 4(f)/6(f)	X			
Social	X			
Underground Storage Tanks	X			
Visual Impacts	X			
Stream Impacts		X		During construction
Water Quality		X		During construction
Wetlands	X			
Wildlife Refuges	X			

Section 401 Water Quality Certification Required? N

Short-term Activity Authorization Required? Y

Section 404 Permit Required? Y

Type NWP 14

Remarks: _____

Signature of Evaluator *Sherry LeBlanc* Date 5-31-2017

ROADWAY DESIGN REQUESTJob Number 100870 FAP No. NHPP-0028(44) County GreeneJob Name Hwy. 34 Strs. & Apprs. (S)Design Engineer Primary Environmental Staff _____Brief Project Description Replace 3 existing bridge structures with 2 bridges at Hurricane
Ditch and Big Slough and a Tri. 10' x 5' R.C. Box Culvert at
Cottonwood Slough

A. Existing Conditions:

Roadway Width: 20' Shoulder Type/Width: 2' PavedNumber of Lanes and Width: 2-10' Existing Right-of-Way: 80'Sidewalks? N/A Location: _____ Width: _____Bike Lanes? N/A Location: _____ Width: _____

B. Proposed Conditions:

Roadway Width: 22' Shoulder Type/Width: 4' (2' Paved)Number of Lanes and Width: 2-11' Proposed Right-of-Way: 130' Avg.Sidewalks? N/A Location: _____ Width: _____Bike Lanes? N/A Location: _____ Width: _____

C. Construction Information:

If detour: Where: Hurricane Ditch Rt. of existing bridge Length: 952'
Big Slough Lt. of existing bridge 1357'
Cottonwood Ditch Rt. of existing bridge 1000'

D. Design Traffic Data:

2018 ADT: 860 2038 ADT: 1100 % Trucks: 7
Design Speed: 55 m.p.h.E. Approximate total length of project: 0.46 mile(s)F. Justification for proposed improvements: Bridges are structurally deficientG. Total Relocates: 0 Residences: _____ Businesses: _____H. Have you coordinated with any outside agencies (e.g., FHWA, City, County, etc.)? N/A

Agency/Official	Person Contacted	Date

BRIDGE INFORMATION - PRELIMINARY

Job Number: 100870 FAP Number: NHPP-0028 (44) County: Greene
 Job Name: Hwy. 34 Strs. & Apprs. (S)
 Design Engineer: Kyle Yeary Environmental Staff: Nate Goddard

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APR 10 2017

ENVIRONMENTAL
DIVISION

A. Description of Existing Bridge:

1. Bridge Number: M3220 over Hurricane Ditch
2. Location: Rte.: 34 Section: 4 Log Mile: 9.99
3. Length: 132.00 ft Br. Rdwy. Width: 27.90 ft Deck Width (Out-to-Out): 29.80 ft
4. Type Construction: Three spans consisting of a concrete deck on steel beams supported by timber pile bents with timber caps.
5. Deficiencies: Inadequate load capacity.
6. HBRRP Eligibility: Qualif. Code: SD Sufficiency Rating: 26.7
7. Are any Condition Component Ratings at 3 or less? No

B. Proposed Improvements:

1. Length: 140.00 ft Br. Rdwy. Width: 30.00 ft Deck Width (Out-to-Out): 33.17 ft
2. Travel Lanes: 2 - 11' Lanes
3. Shoulder Width: 4.00 ft
4. Sidewalks? No Location: N/A Width: N/A ft

C. Construction Information:

1. Location in relation to existing bridge: Same Location
2. Superstructure Type: Continuous Composite Integral W-Beam Unit
3. Span Lengths: (48' - 48' - 44')
4. Substructure Type: Steel Shell Pile Bents w/ Encasement at Intermediate Bents.
5. Ordinary High Water Elev. (OHW): 246 No. of Bents inside OHW Contours: 1
6. Concrete Volume below OHW: 0 yd³ Vol. Bent Excavation: 0 yd³ Vol. Backfill: 0 yd³
7. Is Channel Excavation below OHW Required? No Surface Area: N/A ft² Volume: N/A yd³
8. Is Fill below OHW Req'd.? No Surface Area: N/A ft² Volume: N/A yd³
9. Is Riprap below OHW required? No Volume: N/A yd³

D. Work Road Information:

1. Is Work Road(s) required? TBD Location: TBD Top Width: TBD ft
2. Is Fill below OHW required? TBD Surface Area: TBD ft² Volume: TBD yd³
3. Are Pipes required to meet Backwater Criteria? TBD Waterway Opening: TBD ft²

E. Detour Information:

1. Is a detour bridge required? Yes Location in relation to Existing Br.: 50' Downstream
2. Length: TBD ft Br. Rdwy. Width: TBD ft Deck Elevation: TBD
3. Volume of Fill below OHW: TBD yd³ Surface Area: TBD ft²

F. Coordination with Outside Agencies (e.g., FHWA, City, County, C of E, USCG):

Has Bridge Division coordinated with any outside agencies? No

Agency	Person Contacted	Date

BRIDGE INFORMATION - PRELIMINARY

**RECEIVED
AHTD**

APR 10 2017

**ENVIRONMENTAL
DIVISION**

Job Number: 100870 FAP Number: NHPP-0028(44) County: Greene
 Job Name: Hwy. 34 Strs. & Apprs. (S)
 Design Engineer: Kyle Yeary Environmental Staff: Nate Goddard

A. Description of Existing Bridge:

1. Bridge Number: M3818 over Big Slough Ditch
2. Location: Rte.: 34 Section: 4 Log Mile: 12.09
3. Length: 169.00 ft Br. Rdwy. Width: 24.00 ft Deck Width (Out-to-Out): 25.30 ft
4. Type Construction: Four spans consisting of a concrete deck on steel beams and main span truss supported by timber pile bents with concrete caps under truss supports and timber caps elsewhere.
5. Deficiencies: Inadequate load capacity.
6. HBRRP Eligibility: Qualif. Code: SD Sufficiency Rating: 39.3
7. Are any Condition Component Ratings at 3 or less? No

B. Proposed Improvements:

1. Length: 196.10 ft Br. Rdwy. Width: 30.00 ft Deck Width (Out-to-Out): 33.17 ft
2. Travel Lanes: 2 - 11' lanes
3. Shoulder Width: 4.0 ft
4. Sidewalks? No Location: N/A Width: N/A ft

C. Construction Information:

1. Location in relation to existing bridge: Same Location
2. Superstructure Type: Continuous Composite Integral W-Beam Unit
3. Span Lengths: (60' - 75' - 60')
4. Substructure Type: Concrete filled steel shell pile bents w/ encasement at intermediate bents.
5. Ordinary High Water Elev. (OHW): 248 No. of Bents inside OHW Contours: 2
6. Concrete Volume below OHW: 0 yd³ Vol. Bent Excavation: 0 yd³ Vol. Backfill: 0 yd³
7. Is Channel Excavation below OHW Required? No Surface Area: N/A ft² Volume: N/A yd³
8. Is Fill below OHW Req'd.? No Surface Area: N/A ft² Volume: N/A yd³
9. Is Riprap below OHW required? No Volume: N/A yd³

D. Work Road Information:

1. Is Work Road(s) required? TBD Location: TBD Top Width: TBD ft
2. Is Fill below OHW required? TBD Surface Area: TBD ft² Volume: TBD yd³
3. Are Pipes required to meet Backwater Criteria? TBD Waterway Opening: TBD ft²

E. Detour Information:

1. Is a detour bridge required? Yes Location in relation to Existing Br.: 50' Upstream
2. Length: TBD ft Br. Rdwy. Width: TBD ft Deck Elevation: TBD
3. Volume of Fill below OHW: TBD yd³ Surface Area: TBD ft²

F. Coordination with Outside Agencies (e.g., FHWA, City, County, C of E, USCG):
 Has Bridge Division coordinated with any outside agencies? No

Agency	Person Contacted	Date

Date Submitted to Environmental Division: 4/10/17

BRIDGE INFORMATION - FINAL

RECEIVED
AHTD

APR 10 2017

Job Number: 100870 FAP Number: NHPP-0028(44) County: Greene

Job Name: Hwy. 34 Strs. & Apprs. (S)

Design Engineer: Tammy Jernigan (Roadway) Environmental Staff: Nate Goddard

ENVIRONMENTAL
DIVISION

A. Description of Existing Bridge:

1. Bridge Number: M3222 over Cottonwood Slough
2. Location: Rte.: 34 Section: 4 Log Mile: 12.52
3. Length: 58.00 ft Br. Rdwy. Width: 28.20 ft Deck Width (Out-to-Out): 29.50 ft
4. Type Construction: Three spans consisting of a concrete deck on timber beams supported by timber pile bents with timber caps.
5. Deficiencies: Inadequate load capacity.
6. HBRRP Eligibility: Qualif. Code: SD Sufficiency Rating: 22.4
7. Are any Condition Component Ratings at 3 or less? No.

B. Proposed Improvements:

To be replaced with box culvert, contact Roadway Division for more information.