

**U.S. DEPARTMENT OF AGRICULTURE
Farm Service Agency**

DRAFT ENVIRONMENTAL ASSESSMENT



**Prepared By
Adam Kaufman, USDA, Farm Service Agency
State Environmental Coordinator**

10/05/2022

COVER SHEET

Proposed Action:	The Farm Service Agency (FSA) of the United States Department of Agriculture proposes to provide Farm Loan Program assistance to finance the construction of (6) 54' x 600' broiler houses, a generator shed, (3) water wells, load out pad, access road, utilities, and related infrastructure on a 92 acre tract of land. The physical location of this proposal would take place approximately 12 miles Northeast of Warren, AR. The legal description of the proposed location is in Section 23, Township 11 South, Range 9 West, Cleveland County.
Type of Document:	This is a site-specific Environmental Assessment
Lead Agency:	United States Department of Agriculture (USDA) Farm Service Agency (FSA)
Cooperating Agencies:	None
Further Information:	Adam Kaufman, USDA, Farm Service Agency, 419 West Gaines Street, Monticello, AR 71655.
Comments:	This Environmental Assessment (EA) was prepared in accordance with USDA FSA National Environmental Policy Act (NEPA) implementing procedures found in 7 CFR 799, as well as the NEPA of 1969, Public Law 91-140, 42 US Code 4321-4347, as amended. A Notice of Availability (NOA) of the Draft EA will be published on 10/05/2022 and 10/12/2022 in the Cleveland County Herald in Rison, AR with instructions for providing written comments. A copy of the Draft EA and related material will be made available as provided by the NOA at USDA, Farm Service Agency, 419 West Gaines Street, Monticello, AR 71655. The Draft EA document itself will be posted from 10/05/2022 thru 11/04/2022 on the FSA State website at: https://www.fsa.usda.gov/state-offices/Arkansas/index

TABLE OF CONTENTS

1. Introduction	7
1.1 Background	7
1.2 Purpose and Need for the Proposed Action	7
1.3 Decision To Be Made	8
1.4 Regulatory Compliance	8
1.5 Public Involvement and Consultation	8
1.5.1 Internal Scoping	8
1.5.2 External Scoping	9
1.5.3 Public Involvement	9
2. Description of Proposed Action and Alternatives	10
2.1 Alternative A - Proposed Action	10
2.2 Alternative B - No Action Alternative	12
2.3 Alternative C	12
2.4 Alternatives Considered but Eliminated From Analysis.....	12
3. Affected Environment and Impacts	14
3.1 Resources Eliminated from Detailed Analysis	14
3.2 Resources Considered with Detailed Analysis	16
3.2.1 Wildlife and Habitat.....	16
3.2.2 Cultural Resources	17
4. Water Quality	19
5. Air Quality	20
6. Noise	22
7. Cumulative Impacts	24
7.1 Past, Present and Reasonably Foreseeable Actions	25
7.2 Cumulative Analysis	25
7.2.1 Wildlife and Habitat.....	26
7.2.2 Cultural Resources	26
7.2.4 Water Quality	26
7.2.5 Air Quality	27
7.3 IRREVERSIBLE AND IRRETRIEVABLE COMMITMENTS OF RESOURCES.....	28
8. References	30
9. EA Determination and Signatures	32

APPENDIX A PROJECT AREA MAPS

APPENDIX B Site Photos and FSA site Visit Report

APPENDIX C Required Permits and Plans

C-1 Storm water Pollution Prevention Plan (SWPPP)

C-2 Notice of Coverage for NPDES Permit from ADEQ

APPENDIX D Threatened and Endangered Species Documentation

D-1 Official Threatened and Endangered Species List

D-2 USFWS Verification Letter and Protective Measures

APPENDIX E Agency Correspondence Cultural Resources Documentation

E-1 Tribes with an Interest in Jefferson and surrounding counties

E-2 National Register of Historic Places Proximity Map

E-3 Section 106 Responses and Correspondence

APPENDIX F Wilderness Areas Supporting Documentation

F-1 Federal Lands

F-2 Arkansas Wilderness Areas

APPENDIX G Wild and Scenic Rivers/ Nationwide Rivers Inventory (NRI) Supporting Documentation

G-1 Map of Streams

G-2 Blakey Creek-Saline River HUC12 080402040305

G-3 Nationwide Rivers Inventory and Wild and Scenic River Maps

APPENDIX H National Natural Landmark Supporting Documentation

H-1 Arkansas Natural Landmarks

APPENDIX I Wetlands Supporting Documentation

I-1 FSA 858 "Determining if a Wetland May be Present

APPENDIX J Floodplain Supporting Documentation

J-1 Floodplain map

APPENDIX K National Agricultural Statistics Service (NASS), County Extension, and Census info

ACRONYMS AND ABBREVIATIONS

ADEQ	Arkansas Department of Environmental
ANRC	Arkansas Natural Resource Commission
AR	Arkansas
ATV	All-terrain vehicle
BMP's	Best Management Practices
CAFO	Concentrated Animal Feeding Operation
CEQ	Council on Environmental Quality
CNMP	Comprehensive Nutrient Management Plan
CFR	Code of Federal Regulations
EA	Environmental Assessment
EO	Executive Order
EPA	Environmental Protection Agency
EQIP	Environmental Quality Incentives Program
FEMA	Federal Emergency Management Agency
FONSI	Finding of No Significant Impact
FSA	Farm Service Agency
GHG	Green House Gases
GPM	Gallons per minute
HUC	Hydrologic unit code
IPaC	Information for Planning and Conservation
MA/NLAA	May Affect, Not Likely to Adversely Affect
NEPA	National Environmental Policy Act
NHPA	National Historic Preservation Act
NLEB	Northern Long Eared Bat
NMP	Nutrient Management Plan
NOA	Notice of Availability
NPDES	National Pollutant Discharge Elimination
NRCS	Natural Resources Conservation Service
SHPO	State Historic Preservation Officer
SWPPP	Stormwater Pollution Prevention Plan
THPO	Tribal Historic Preservation Officers
TSP	Technical Service Provider
TMDL	Total Maximum Daily Load
WMA	Wildlife Management Area
U.S.	United States
USACE	U.S. Army Corps of Engineers
USDA	United States Department of Agriculture
USFWS	United States Fish and Wildlife Service

1. INTRODUCTION

1.1 Background

- The United States Department of Agriculture (USDA) Farm Service Agency (FSA) proposes to provide assistance for the applicant to establish an integrated broiler facility with (6) 54' x 600' houses on a 92 acre tract of land the applicants are under contract to purchase. This proposed facility would have the capacity to house approximately 43,200 birds per house and 259,200 broilers per flock, at maximum capacity, which would meet FSA's definition of a large Confined Animal Feeding Operation (CAFO). Flock placement would be dependent on bird variety, needs of the integrator, supply and demand, and several other factors. A flock of broilers is typically kept on the farm for approximately 6-8 weeks. It is anticipated that the farm would receive approximately 4 to 6 flocks annually.
- Cleveland County is not located in the Nutrient Surplus Area. SEE APPENDIX A-9. Appendices A and B contain maps and photos of the proposed project area. A detailed description of the components of the proposed project, the project site and related surrounding area of potential effect is further described in Section 2.1 of this document.

1.2 Purpose and Need for the Proposed Action

The purpose of the proposed project/action is to implement USDA, Farm Service Agency programs, to make available economic opportunity to help rural America thrive, and to promote agriculture production that better nourishes Americans and help feed others throughout the world. FSA is tasked with this mission as provided for by the Food and Security Act of 1985 as amended, the Consolidated Farm and Rural Development Act as amended, and related implementing regulations found in 7 CFR Parts 762 and 764.

The need for the proposed action is to fulfill FSA's responsibility to provide access to credit, and to help improve the stability and strength of the agricultural economy, including to start, improve, expand, transition, market, and strengthen family farming and ranching operations, and to provide viable farming opportunities for family and beginning farmers and meet the needs of small and beginning farmers, women, and minorities. Specifically, in the case of this loan request, FSA's need is to respond to the applicant's request for funding to support the proposed action.

FSA Farm Loan Program Assistance is not available for commercial operations or facilities that are not family farms, or to those having the ability to qualify for commercial credit without the benefit of FSA assistance. The applicants have been determined to be a family farm as defined by 7 CFR 761.2. The proposed action would allow them the opportunity to establish their family farming operation and provide the economic stability to meet the needs of the family.

In addition, poultry integrators have a demand for new facilities such as these to provide an adequate supply for processing plants and keep them operating at an economically feasible capacity. Specialized livestock facilities such as those proposed, have a limited useful life as they become functionally obsolete as technology advances. Accordingly, a pipeline of new facilities is necessary to insure an adequate and economical supply of low cost protein and food for the nation.

1.3 Decision To Be Made

FSA's decision is whether to:

- Approve the applicant's loan request;
- Approve the request with additional mitigations; or
- Deny the loan request.

1.4 Regulatory Compliance

This Environmental Assessment is prepared to satisfy the requirements of NEPA (Public Law 91-190, 42 United States Code 4321 et seq.); its implementing regulations (40 CFR 1500-1508); and FSA implementing regulations, *Environmental Quality and Related Environmental Concerns – Compliance with the National Environmental Policy Act* (7 CFR 799). The intent of NEPA is to protect, restore, and enhance the human environment through well informed Federal decisions. A variety of laws, regulations, and Executive Orders (EO) apply to actions undertaken by Federal agencies and form the basis of the analysis.

All fifty states have enacted right-to-farm laws that seek to protect qualifying farmers and ranchers from nuisance lawsuits filed by individuals who move into a rural area where normal farming operations exist, and who later use nuisance actions to attempt to stop those ongoing operations. The Right to Farm law for Arkansas (Ark. Code Ann. § 24101) protects farming operations from nuisance claims when farms were established prior to the use of the area surrounding the agricultural operation for nonagricultural activities and those farms employ methods or practices commonly or reasonably associated with agricultural production.

1.5 Public Involvement and Consultation

Scoping is an early and open process to involve agencies, organizations, and the public in determining the issues to be addressed in the environmental document. Among other tasks, scoping determines important issues and eliminates issues determined not to be important; identifies other permits, surveys and consultations required with other agencies; and creates a schedule that allows adequate time to prepare and distribute the environmental document for public review and comment before a final decision is made. Scoping is a process that seeks opinions and consultation from the interested public, affected parties, and any agency with interests or legal jurisdiction.

1.5.1 Internal Scoping

USDA staff of various specialties have been consulted regarding the purpose and need, issues and impact topics appropriate for consideration for the proposed activity. A site visit and pedestrian review was completed by Adam Kaufman, USDA, Farm Service Agency on 08/03/2022 Site visit notes and photographs are included in APPENDIX B.

1.5.2 External Scoping

USDA FSA has completed research and the following tasks and efforts:

- Research of U.S. Fish and Wildlife Service (USFWS) - Information, Planning, and Conservation System (IPaC) about the project's potential to affect federally listed species as required by the Endangered Species Act of 1973. SEE APPENDIX D.
- Consultation with the State Historic Preservation Officer (SHPO) to ensure that compliance with the requirements of Section 106 of the National Historic Preservation Act (NHPA) are met and that significant impacts to historic properties would not result from the project SEE APPENDIX E-3.
- Consultation with Tribal Historic Preservation Officers (THPO's): Darrin Cisco of the Apache Tribe of Oklahoma, Derek Hill of the Caddo Nation, Lindsey Bilyeu of the Choctaw Nation of Oklahoma, Linda Langley of the Coushatta Tribe of Louisiana, Alina Shively of the Jena Band of Choctaw Indians, Chief Phyliss Anders of the Mississippi Band of Choctaw Indians, Everett Bandy of the Quapaw Tribe of Indians, Tonya Tipton of the Shawnee Tribe of Oklahoma, and Acee Watt with the United Keetowah Band of Cherokee Indians to ensure that compliance with the requirements of Section 106 of the NHPA are met and that significant impacts to historic properties would not result from the project. SEE APPENDIX E-3
- FSA staff completed Form FSA-858, "Determining if a Wetland May Be Present" to screen for wetland indicators where ground disturbance associated with project would take place SEE APPENDIX I.

1.5.3 Public Involvement

The Draft EA and supporting documentation will be made available for public review and comment from 10/05/2022 to 11/04/2022 at the following USDA Service Center:

Farm Service Agency, 419 W. Gaines street, Monticello, AR 71655. The Draft document itself will also be posted on the Arkansas FSA state website: <https://www.fsa.usda.gov/state-offices/Arkansas/index> from 10/05/2022 to 11/04/2022. A notice of the availability of the draft EA will be published in the Cleveland County Herald on 10/05/2022 and 10/12/2022. Written comments will be taken into consideration prior to making a final decision.

2. DESCRIPTION OF PROPOSED ACTION AND ALTERNATIVES

2.1 Alternative A - Proposed Action

The proposed action involves FSA providing a guaranteed farm ownership loan to a commercial lender that would be used to establish a new (6) house broiler farm on a 92 acre tract of land in Cleveland County. This proposal would take place in the Rye Community on the west side of highway 63. SEE APPENDIX A-3. The legal description of the proposed location is in Section 23, Township 11 South, Range 9 West, Cleveland County. This tract of land is located in the South Central Plains eco region of Arkansas. The applicants are under contract to purchase the 92 acres from a family member. The proposed site is currently established in mixed warm season grasses and used for cattle pasture. Slopes on this proposed site range from 3 to 8 percent. SEE APPENDIX I.

The applicants would enter into a contract with a poultry integrator, who would place flocks of broilers on the farm, where they would be grown to market size. The applicants, as growers, would be responsible for providing the chicken houses and equipment, utilities, and labor required to house and manage the flock including feeding, watering, brooding, waste disposal, maintaining the houses, and providing for animal welfare, sanitation, and biosecurity. The integrator would supply the chicks, feed, labor to deliver and remove the birds from the farm, veterinary services, and technical support to the grower.

There are no buildings on the proposed site. The 92 acre tract does have perimeter fencing, a pond in the southwestern corner, a cattle working pen on the eastern side of the property, and an asphalt road that runs east and west across the majority of the 92 acre tract just north of the proposed broiler houses. The proposed site would be accessible via highway 63, which borders the 92 acre property to the east. SEE APPENDIX A-1. The 92 acre tract is also accessible via Rye Cutoff to the north and McKinney Road to the northwest.

The proposal would take place in a rural setting surrounded by pastureland and timber in all directions. The Rye Volunteer Fire Department is located at the intersection of HWY 63 and Rye Cutoff and neighbors the 92 acre tract to north. The nearest neighboring dwellings are located .2 miles to the northwest, .3 miles to the south, .4 miles to the east, and .5 miles to the west of the proposal. SEE APPENDIX A-8. The nearest neighboring churches would be located .5 miles to the east (Union Methodist Church) and 1.1 miles to the northeast (Enon Missionary Church). SEE APPENDIX A-7. The nearest schools would be located in Warren 11.2 miles to the southwest. SEE APPENDIX A-6. The Broken Spoke Grocery Store is located .5 miles south of this proposal on the opposite side of HWY 63. According to NASS, Cleveland county had 5,200 head of cattle, including calves as of January 2022. The 2017 Census of Agriculture indicates 21% of Cleveland county is established in cropland, 30% is in pasture, and woodland accounts for 39% with 9% other land uses. SEE APPENDIX K.

Proposed improvements would consist of (6) 54' x 600' broiler houses, access roads, load out pad, generator shed, utilities, water wells, a litter stacking shed and mortality disposal. The proposed houses would be positioned in the southeastern corner of the 92 acre tract running east and west, stacked north and south. SEE APPENDIX A-1. These structures would be built on top of earthen pads with dimensions slightly larger than the dimensions of the houses themselves. Each house would have the potential to typically accommodate approximately 43,200 broilers at maximum capacity, which would

equate to 259,200 birds per flock in all (6) houses. The proposed broiler farm would require a load out area that would be built on the east side of the (6) broiler houses. The load out area would be approximately 100' wide east to west and extend north and south continuously the length of the houses. The load out area would allow live haul, feed and service trucks, and other farm traffic to turn safely while entering and exiting this proposed facility and also serve as an area to park and store farm equipment.

The proposed operation would utilize (2) incinerators as a means of mortality disposal which is an ANRC approved method. The incinerators would be placed on the western end of the broiler houses. The incinerators would be fueled by diesel, have an 850 lb capacity, be equipped with an afterburner which would assist with emission reduction, and have the capacity to dispose normal mortality on this proposed farm. Diesel would be stored in a 75 gallon above ground storage tank. The farm would also have a 54' x 50' compost shed with (6) stalls, which could also be used for mortality disposal. The proposed operation would utilize (2) 150 kw generators for a backup power supply in the event of an outage. The generators would be placed under a 12' x 16' generator shed, one in between the (2) northern most houses and one in between the (2) southern most houses. The generator sheds would have a wood frame, metal roofs and sides, sit on top of a concrete slab. The generators would serve as a backup power supply for this proposed broiler facility in the event of a power outage and utilize low sulfur diesel as a fuel source, stored in a 300 gallon above ground tanks. Underground wiring in conduit would be ran from the generators and be plumbed into each poultry house.

The proposed facility would be accessible via (2) proposed driveways running east and west from highway 63 as shown on the proposed site layout on APPENDIX A-1. Related infrastructure would include access roads in between the (6) broiler houses themselves, utility lines for water and electricity, and above ground storage tanks for propane to heat these facilities. Electricity to proposed poultry house facilities would be ran over head from the existing service connection along highway 63.

Water to the proposed broiler operation would be supplied by (3) water wells, which would be drilled to an approximate depth of 600' based on the bids that have been submitted. The water wells would be placed in between the two northernmost houses, in the center of the proposed operation, and in between the (2) southernmost houses. Underground plumbing would run from the wells to the proposed broiler facilities. The proposed houses would utilize propane as a heat source, stored in 1000 gal above ground storage tanks placed in between each house.

According to the stormwater pollution prevention plan (SWPPP), this proposal would involve 12.8 acres of ground disturbance. The proposed site is currently established predominantly in pasture ground with mixed warm season grasses, and other native vegetation. It would be necessary to remove approximately 5 pine trees along the eastern border of the project, where the load out pad would go. It would also be necessary to trim the limbs of some oak trees for the access roads.

The proposed area is relatively flat with 3-8% slopes. SEE APPENDIX I. The proposed load out area and all access roads and roads in between the houses would be covered with gravel. Trenches for the proposed water and underground electric lines would be dug to an approximate depth of 3.5' deep and 1' wide.

There are no connected actions associated with this proposal at this time, however it would be possible to expand this operation in the future if the applicants were presented the opportunity to do so on this

farm. Any future expansion financed with FSA funds would require a subsequent environmental review that meets the requirements of 1-EQ (revision 3).

2.2 Alternative B - No Action Alternative

The No Action Alternative means the loan would not be made and the farm described in Section 2.1 above (Proposed Action) would not be built. The applicants would not purchase the 92 acres and it would be continue to be utilized as cattle pasture with no impacts as the proposed action would not go forward.

2.3 Alternative C

An alternative location would not be feasible, as the proposed project would take place on property the applicants are under contract to purchase. The proposed site is in a rural setting with access to utilities, roads, and highways that would be large enough to accommodate the proposed broiler operation. The applicants live near this location. Integrators typically require a farm manager to live on or in close proximity to the farm.

The proposed project was designed to require the least amount of ground disturbance possible while taking the surrounding environment into consideration and maximizing the remaining amount of grasslands available to graze cattle. The proposal as planned would take place on the eastern side of the 92 acre tract. The poultry houses would need to lie 150' west of the eastern property boundary to comply with integrator setbacks requirements. If the proposed site were to be moved father west, it would be less visible to traffic traveling on highway 63, but would require a longer access road, which would result in more ground disturbance than that the proposed action. According to USFWS, a riverine wetland exists near the middle of the 92 acre tract. SEE APPENDIX I-1. Electing to move the proposal farther west would move the proposal closer to the wetland, which may violate federal law. The proposed (6) houses would not fit on the western side of the riverine wetland.

The proposed site configuration was designed to create the least amount of ground disturbance and vegetation removal, resulting in minimal impact on the environment and its surroundings during the construction phase of the proposal while maximizing the amount of productive grazing land that would remain on the 92 acres. Alternative configurations were not considered due to the possibility of having a greater impact on the affected environment. Integrated poultry producers must comply with very specific logistical and design requirements provided by the integrators.

2.4 Alternatives Considered but Eliminated From Analysis

Other locations for the farm or other uses for the land in question are not considered here because such options do not meet the purpose and need for the proposed action. The applicant has applied for FSA-direct-participation and guaranteed loans to fund the construction of a new large CAFO. FSA's decision to be made is to approve the loan for the proposed farm as designed, to deny the loan, or to approve the loan with additional mitigations, practices or methods that would be needed to minimize or eliminate impacts to protected resources.

Similarly, alternative designs of farm components are not considered as the producer's agreement with a poultry integrator requires adherence to the integrator's construction and equipment specifications,

which are in place to ensure consistency, maximize production, and reduce loss. Design alternatives that would involve modification of features and infrastructure put in place by an integrator would jeopardize the availability of bird placement, be grounds for a potential loss of the contract with the integrator, and therefore the viability of the farm. Accordingly, this alternative would not warrant further consideration.

3. AFFECTED ENVIRONMENT AND IMPACTS

The impacts to a number of protected resources, as defined in FSA Handbook 1-EQ (Revision 3) Environmental Quality Programs for State and County Offices, are considered in this EA. Some resources are eliminated from detailed analysis following CEQ regulations (40 CFR 1501.7), which state that the lead agency shall identify and eliminate from detailed study the issues that are not significant or that have been covered by prior environmental review, narrowing the discussion of these issues in the document to a brief presentation of why they would not have a significant effect on the human or natural environment. Resources that are not eliminated are carried forward for detailed analysis. The table below shows the resources that are eliminated from detailed analysis and those carried forward. Section 3.1 contains discussions of those resources eliminated from detailed analysis. Section 3.2 describes the existing conditions for resources carried forward for detailed analysis and the anticipated impacts to those resources resulting from the Proposed Action.

Resource	Eliminated	Carried Forward
Wildlife and Habitat		x
Cultural Resources		x
Coastal Barriers	x	
Coastal Zones	x	
Wilderness Areas	x	
Wild and Scenic Rivers, NRI		x
National Natural Landmarks	x	
Sole Source Aquifers	x	
Floodplains	x	
Wetlands	x	
Soils	x	
Water Quality		x
Air Quality		x
Noise		x
Important Land Resources	x	
Socioeconomics and Environmental Justice	x	

3.1 Resources Eliminated from Detailed Analysis

Coastal Barrier Resources System

Coastal barriers are eliminated from detailed analysis as there are no designated Coastal Barriers in Arkansas.

Coastal Zone Management Areas

Coastal Zone Management Areas are eliminated from detailed analysis because there are no Coastal Zone Management Areas in Arkansas.

Wild and Scenic Rivers/NRI

Wild and Scenic Rivers/NRI were eliminated from detailed analysis in this EA. The nearest wild and scenic river in relation to the proposed project is the Little Missouri River, located 115 miles northwest of the proposed broiler farm. The Saline River has a Nationwide Rivers Inventory (NRI) designation and is located 3.5 miles to the west of the proposal. SEE APPENDIX G-3. The National Parks Service was consulted on 8/18/2022, no response was received. SEE APPENDIX G-4.

National Natural Landmarks

There are five National Natural Landmarks in Arkansas. SEE APPENDIX H-1. The site of the Proposed Action is not located in close proximity to any of these nor would the proposal threaten to alter or impair them. The closest NNL in proximity to this proposal would be the White River Sugarberry Natural Area located 58 miles northeast of the proposed site, therefore National Natural Landmarks are eliminated from detailed analysis.

Sole Source Aquifers

Sole source aquifers are eliminated from detailed analysis because there are no sole source aquifers in Arkansas.

Floodplains

Floodplains were eliminated from further detailed analysis. According to Fema's Flood map panel number 05025C0450C, the proposed site is not located within the 100 year floodplain. According to Google Earth Pro, the eastern side of the proposed site has an elevation of 170' while the western side of the proposed site has an elevation of 150'. The nearest stream referenced above has an elevation of 143' therefore it's unlikely the proposed structures would be located in a floodplain. No ground disturbing activities would take place in a floodplain. SEE APPENDIX J-1.

Wetlands

Wetlands have been eliminated from further detailed analysis. According to FSA Form-858 "Determining if a Wetland May Be Present," wetland indicators were not present on the 12.8 acre proposed site where the broiler houses would be located, therefore no additional screening is necessary. SEE APPENDIX I-1. Based on the plans that have been submitted and USFWS Wetlands Mapper, no ground disturbing activities would take place within 150' of the riverine wetland. SEE APPENDIX

Soils

Soils are eliminated from detailed analysis because no land on this farm would not be cropped and is therefore not subject to the Highly Erodible Land provisions of the Food Security Act. Furthermore, there would be no annual tillage of the soil associated with this proposed project. The applicants have both signed AD-1026 "Highly Erodible Land Conservation and Wetland Conservation Certification." SEE APPENDIX I.

Wilderness Areas

There are 12 designated Wilderness areas in Arkansas. The closest Wilderness Area would be Flatside Wilderness Area, which is located 94 miles northwest of this proposed project. SEE APPENDIX F-2. The

nearest federal land in relation to this proposal would be Felsenthal National Wildlife Refuge, located 41 miles to the southwest. SEE APPENDIX F-1. This proposal should have no impacts on wilderness areas or federal lands.

Important Land Resources

Prime and unique farmland, forestland and rangeland resources are eliminated from detailed analysis because the proposed action would not result in prime and/or important farmland being converted to a nonagricultural use.

Socioeconomics and Environmental Justice

No impact to population, housing, income, or employment in the region are anticipated to result from the Proposed Action, nor are disproportionate adverse impacts to minority or low income populations anticipated. Therefore, socioeconomics and environmental justice are not carried forward for detailed analysis. SEE APPENDIX K for demographic information in Cleveland County.

3.2 Resources Considered with Detailed Analysis

This section describes the environment that would be affected by implementation of the alternatives described in Chapter 2. Aspects of the affected environment described in this section focus on the relevant major resources or issues. Under the no action alternative, the proposed action would not be implemented. The no action alternative would result in the continuation of the current land and resource uses in the project area. This alternative will not be evaluated further in this EA.

3.2.1 Wildlife and Habitat

Existing Conditions

The majority of the proposed 12.8 acre project site is established in grasslands used for pasture. It would be necessary to remove (5) twenty year old pine trees and to trim some limbs on a few larger oak trees along highway 63 where the access roads would go. Wildlife typical of such areas include whitetail deer, squirrels, raccoons, and various other mammals and birds. A site visit was conducted by FSA on 08/03/2022. SEE APPENDIX B-1 for site visit notes and photographs.

An official list of threatened and endangered species and designated critical habitat for this area of Cleveland County was obtained from the US Fish and Wildlife Service (USFWS) Information for Planning and Conservation (IPaC) system. SEE APPENDIX D-1. The following threatened and endangered species are known to occur in this area of Cleveland County:

Eastern Black Rail *Laterallus jamaicensis* ssp. *Jamaicensis* (threatened), Piping Plover *Charadrius melodus* (threatened), Red Knot *Calidris canutus rufa* (threatened), Pink Mucket (pearlymussel) *Lampsilis abrupta* (endangered), Rabbitsfoot *Quadrula cylindrica cylindrica* (threatened), Winged Mapleleaf *Quadrula fragosa* (endangered), Red-cockaded Woodpecker *Picoides borealis* (endangered), and the Monarch Butterfly *Danaus plexippus* (candidate).

According to IPAC there are no critical habitats within the proposed project area under USFWS jurisdiction. SEE APPENDIX D-1.

The proposed 12.8 acre site lacks suitable wetland and marshy habitats preferred by the Eastern Black Rail, Piping Plover, and the Red Knot, therefore the proposal would have no effect on these bird species. SEE APPENDIX D-2. No proposed ground disturbing activities would take place in or near a stream. There would be a 150' buffer in between acre tract, The SWPPP would implement best management practices and protective measures that would help in protecting water quality for the surrounding area therefore this proposal is not likely to adversely affect the Winged Mapleleaf, Rabbitsfoot, and Pink Mucket. SEE APPENDIX D-2 and APPEDIX C.

No further consultation for this project is required for these species per USFWS. SEE APPENDIX D-2.

The Bald Eagle has been known to occur in this area, however the Bald Eagle is not covered by the Endangered Species Act. No Bald Eagles, or Bald Eagle nests were observed on this proposed site during the site visit. SEE APPENDIX B-1.

Impacts of Proposed Action

According to the SWPPP, 12.8 acres of ground disturbance would occur would be necessary to implement this proposal. SEE APPENDIX C-1. Implementation of the proposal would result in a long term loss of 12.8 acres of open pasture ground, which currently contributes to wildlife habitat. The proposal would result in a long term loss of wildlife habitat that this 12.8 acres of vegetation provided. Based on the results from the USFWS Consultation, and BMP's that would be implemented for this proposal, no significant impacts to Wildlife and Habitat would be expected to result from the Proposed Action. No adverse impacts on migratory birds are anticipated as a result of this proposal. The primary nesting season for birds in Arkansas is April 1 through July 15.

3.2.2 Cultural Resources

Existing Conditions

The Proposed Action involves some ground disturbing activities in areas not previously evaluated or previously disturbed to the depth required for the Proposed Action, therefore cultural resources require detailed analysis. This proposed 12.8 acre site has been established in grasslands and used to graze beef cattle. SEE APPENDIX A. A site visit was conducted by USDA, Farm Service Agency on 8/03/2022. The 92 acre tract of land has perimeter fencing and a cattle working pen located along the eastern border near highway 63. A manmade pond exists near the southwestern corner of the property. The pond is 1/3 acre in size and used to water livestock. An asphalt road also exists that runs east and west across the entire northern 1/3 of the tract, then north and south near the northwestern corner of the tract. There are no existing improvements where the proposed action would take place. The nearest structures in relation to the proposal that are listed on the National Register of Historic Places are the New Zion AME Church in Warren, located 11 miles southwest of the proposed site and the Mt. Zion Presbyterian Church, located 11 miles to the northeast. SEE APPENDIX E-2. Based on the distance from the proposal, FSA anticipates this proposal would have no affect on these historic properties.

FSA consulted with the Arkansas State Historic Preservation Office (SHPO), and Indian Tribes with an interest in this area of Cleveland County, including: Darrin Cisco of the Apache Tribe of Oklahoma, Derek

Hill of the Caddo Nation, Lindsey Bilyeu of the Choctaw Nation of Oklahoma, Linda Langley of the Coushatta Tribe of Louisiana, Alina J. Shively of the Jena Band of Choctaw Indians, Chief Phyliss Anderson of the Mississippi Band of Choctaw Indians, Everett Bandy of the Quapaw Tribe of Indians and Tonya Tipton of the Shawnee Tribe of Oklahoma, and Acee Watt with the United Keetowah Band of Cherokee Indians. SEE APPENDIX E-1. Arkansas SHPO provided a response on 08/11/2022. SHPO's response concurs that no historic properties should be affected by this undertaking. An email response from the Choctaw Nation was received on 09/05/2022. Their response states this area of Cleveland county lies outside their area of historic interest and have deferred to other Tribes that have been contacted. An email response was received from the Quapaw nation on 09/15/2022. The Quapaw finds that this project is not likely to adversely affect the properties of cultural or sacred significance to the Quapaw Nation. They ask that work cease immediately should artifacts or human remains be discovered and wish to be contacted.

No other responses from Tribes with an interest in the area of Cleveland County were received.

Impacts of Proposed Action

Based on the proximity of the historic churches to the Proposed Action, response from SHPO, responses from the Choctaw Nation of Oklahoma, and Quapaw Tribe, lack of response from the additional Tribes listed above site FSA anticipates no impacts to known cultural resources would result from the Proposed Action. Impacts to previously unidentified historic properties, including archaeological and historic resources, could occur during land clearing and construction activities. If such resources were encountered during construction of this proposal, all activities would cease, FSA state and national office personnel would be notified, along with Arkansas SHPO, local authorities, and Tribes with an interest in this area. Any potential resources discovered would be professionally evaluated for eligibility for listing on the National Register of Historic Places.

4. WATER QUALITY

Existing Conditions

In Arkansas, the Arkansas Department of Energy and Environment (ADEQ) has the authority to enforce provisions of the Clean Water Act that are protective of water quality and to issue permits that are protective of water quality standards. This authority is delegated to ADEQ by the Environmental Protection Agency. The ADEQ Water Division issues Stormwater National Pollutant Discharge Elimination System (NPDES) Permits to protect surface waters from contamination from runoff associated with construction. Coverage under General Permit AR1500000 is required for construction that causes ground disturbance in excess of 1 acre. Permit AR1500000 for small sites is for disturbance between 1 and 5 acres and requires operators to post required forms and documents, including a stormwater pollution prevention plan (SWPPP), on the site rather than coordinate directly with ADEQ. Permit AR 1500000 for large sites including disturbance in excess of 5 acres, required documents are submitted to ADEQ. SWPPPs are documents that describe construction activities to prevent stormwater contamination, control sedimentation and erosion, in order to prevent significant harm to surface waters and comply with the requirements of the Clean Water Act. ADEQ is also responsible for issuing Non-stormwater NPDES Permits issued to facilities that discharge water. Animal Feeding Operations and Confined Animal Feeding Operations that do not discharge into waters of the state do not require NPDES permits for ongoing operations. SEE ADEQ Reference

The Arkansas Natural Resource Commission (ANRC) Water Division is responsible for developing and implementing the Arkansas Water Plan, the state's policy for long-term water management, and for the State's Non-point Source Pollution Management Program. The Arkansas Water Plan describes each of the state's river basins. The ANRC Conservation Division supports development, management and conservation of the state's land and water resources, in part through nutrient management planning. A nutrient management plan (NMP) is a document approved by a conservation district board that assists landowners and operators in the proper management and utilization of nutrient sources for maximum soil fertility and protection of state waters. ANRC requires NMPs for farms that plan to land apply litter, sewage sludge, or commercial fertilizer within an area designated as the Nutrient Surplus Area (which includes parts of Baxter, Benton, Boone, Carrol, Crawford, Madison, Marion, Polk, Scott, Sebastian, and Washington Counties. For land application outside this area, usage of a nutrient management plan is voluntary. A NMP for this proposed broiler operation has not been developed, as NMP's are voluntary outside of the nutrient surplus area, however the applicants would have the option to have a plan developed, if they wish to do so.

The proposal is not located within a nutrient surplus area in Arkansas. SEE APPENDIX A-9. This proposal is located within the Blakey Creek-Saline River Watershed: (HUC12 080402040305) SEE APPENDIX G-2. This watershed is located within the Ouachita River Basin, which covers most of the southern half of the state. According to the ADEQ water quality monitoring assessment report, waters within this segment have been designated as suitable for the propagation of fish and wildlife, primary and secondary contact recreation, and public, industrial, and agricultural water supplies. REFERENCE ADEQ

Impacts of Proposed Action

The applicants have submitted the required plans and applications to ADEQ and were granted coverage under Storm water NPDES General Permit AR1500000 SEE APPENDIX C-1 and C-2. With adherence to the best management practices described in the SWPPP, minimal impacts to surface water from the proposed construction are anticipated. The proposed farm would not discharge into waters of the state and therefore no impacts to state surface waters are anticipated. Any land application of litter produced on the farm would need to comply with ANRC requirements in order to be protective of surface water quality. REFERENCE ANRC

The proposed 12.8 acre site would be surrounded by areas established in warm season grasses that would act as a filter strip. All existing vegetation surrounding the proposed site would also act as a natural buffer. Silt fence would be implemented around the perimeter of exposed soils and areas with concentrated flow. All exposed soil would eventually be mulched and seeded with mixed grasses.

The applicants would compost mortality on their proposed farm, which is an approved method by ANRC. The shed would lie in the northwest corner of this proposal.

Integrators typically require their growers to “cake out” in between flocks, which consist of removing the top few inches of litter. Depending on integrator requirements and management practices utilized by the grower, a full house clean out is typically conducted annually, where all the litter is removed from the houses. The applicants would have the option to sell this litter and have it transported off site to another location. The applicants would be responsible for record keeping and adherence to the recommendations of a NMP if they choose to have one developed.

In summary, the applicants have submitted a SWPPP to ADEQ, and have obtained a NPDES permit thru ADEQ for proposed construction activities to take place, which would help protect surface and ground water quality within this area and surrounding areas. The applicants would also have a litter shed to store litter and cake to keep it out of the elements. The proposed broiler operation would use an incinerator to dispose of their mortality, which is a state approved method. These proposed measures should be adequate to help prevent contamination of stormwater off site during the construction phase of this proposed farm.

No significant impacts to water quality are anticipated to result from the Proposed Action.

5. Air Quality

Existing Conditions

As of February 1, 2018, all of Arkansas is in attainment for all criteria pollutants established by the Environmental Protection Agency in compliance with the Clean Air Act. The proposed farm would not be required to obtain an air permit in accordance with Arkansas Air Pollution Control Regulation 18.301

since air emissions for defined criteria pollutants at the facility do not exceed the permitting thresholds considered protective of air quality. Potential air quality effects considered here include odor and dust production, which may be associated with construction activities and the ongoing operations of the farm. SEE REFERENCES

The proposed poultry houses would have stands of mixed timber to the east, north, and west. Pasture land would border the proposed poultry operation to the south. SEE APPENDIX A-1. Trees surrounding this proposal would act as a natural buffer that would help filter out odors, dust, and other particulate matter emitted by the proposed poultry houses. The discharge fans on the proposed poultry houses would face towards timberlands to the west. Nearby residences, churches, schools, and non farm businesses should not be affected by this proposal.

Arkansas Water and Air Pollution Control Act, Subchapter 3 Air Pollution exempts "Agricultural operations in the growing or harvesting of crops and the raising of fowls or animals" and the "use of equipment in agricultural operations in the growth of crops or the raising of fowls or animals." There are no local ordinances regulating odor in this area.

Impacts of Proposed Action

Construction activities that disturb the soil surface could generate dust. Such impacts would be minor, temporary and localized, generally confined to the farm property and ongoing only during construction activities. An existing, stabilized driveway would be utilized as the entrance and exit to the proposed construction site. Exposed soils could be wet down to control fugitive dust. Similarly, during construction, minor and localized emissions associated with heavy machinery could be expected. None of these construction related impacts would have a significant or long-term adverse impact to surrounding air quality.

During operation of the farm, roads used by delivery trucks in between the proposed broiler houses would be covered with gravel to minimize dust associated with travel. Dust generated while the poultry facility is in operation would occur mostly during feeding. Humidity and misting systems inside poultry houses would keep down dust, within the barns.

Odor would be controlled through management of the poultry house's ventilation systems, as is required by integrators for flock health. The applicants would incinerate their mortality as described in earlier sections of the EA, which is an approved method of disposal by the Arkansas Poultry and Livestock Commission. Poultry litter on the proposed broiler operation would be stored in the (6) broiler houses which would keep it dry and reduce the impacts of odor emitted by the litter and would also have a litter shed to store litter from cleanouts and cake out's in between flocks.

The poultry houses would be cleaned per integrator specifications between flocks as appropriate on an as-needed basis. Litter would be stored in accordance with ANRC regulations, either in a litter shed or it would be tarped in an elevated location to be kept out of the elements until it could be removed from the farm and land applied as fertilizer.

Dilution of odors is caused through the mixing of odors with ambient air and is a function of distance, topography, and meteorological conditions. Prevailing winds are from the west and would serve to facilitate the dispersion of odors. Based on the climate of the southeastern United States, there would be a few days in the year when weather conditions and humidity may cause odor to linger in the vicinity.

According to the EPA, total GHG emissions in the US in 2014 were 6,870 million metric tons of carbon dioxide equivalent (CO₂e), a metric measure used compare the emissions from various greenhouses gases based upon their global warming potential. Agriculture accounted for approximately 9 percent of the total or 625.4 million metric tons. The contribution of agriculture to GHG emissions is comprised of livestock (242.96 million metric tons CO₂e), crops (330.68 million metric tons CO₂e), and fuel combustion (51.79 million metric tons CO₂e).

Agricultural activities contribute to GHG in several ways: Management of agricultural soils accounts for over half of agriculture emissions. Activities including fertilizer application, irrigation and tillage, can lead to production and emission of nitrous oxide. Livestock, particularly cattle, produce methane as part of their digestion accounting for almost one third of the agricultural emissions. Manure storage and management also contribute methane and nitrous oxide, accounting for about 14 percent of the agricultural GHG emissions. Smaller agricultural sources include methane produced by rice cultivation and the burning of crop residue, which produces methane and nitrous oxide. Odor impacts would not be expected to be significant.

6. Noise

Existing Conditions

Existing conditions on the 92 acre tract are generally quiet. Noise from neighboring residences and vehicle traffic is common along highway 63, Rye Cutoff and McKinney Road. The proposed site is used for cattle pasture. Noise from vehicles, road graders, logging trucks and equipment, poultry and cattle farming activities, and human activity does exist, but is temporary in nature. This is not a very densely populated area. The proposed site is surrounded by timber and rural residences in all directions. It's unlikely the surrounding environment would be adversely impacted due to potential increases in noise levels associated with this proposal.

Impacts of the Proposed Action

The Proposed Action would establish a new, (6) house, integrated poultry operation. Noise levels would increase slightly during normal, daylight working hours during the construction phase of this project, which typically lasts about 6 months. Upon completion, noise from the Proposed Action would permanently increase noise levels in this area; however, noise from birds would be insignificant as they are contained within the poultry houses which are set back from property lines and further muffled by insulation in between the roofs, and ceilings and solid side walls within these structures and vegetative buffers and timber that surrounds the proposed site. These measures would also aid in mitigating periodic equipment usage and truck noise associated with the movement of birds, feed, supplies and materials. Such activities would rarely take place other than during daylight hours, be infrequent in nature, of brief duration and low intensity. Similarly noise from generators would be limited to a few minutes of periodic testing and they would only operate on a temporary basis in the event of emergencies should power be lost. As such noise would be of irregular and infrequent duration it would not be significant. Additionally, Arkansas's Right to Farm Law protects operation of farms that were

established prior to the use of the area surrounding the agricultural operation for nonagricultural activities and those farms which employ methods or practices commonly or reasonably associated with agricultural production. As integrated poultry production is a mainstay of the state's economy the related production methods have long been the accepted prevailing practice for widespread production both in Arkansas and throughout the country. SEE ARKANSAS RIGHT TO FARM REFERENCE

The proposed action is not expected to significantly affect ambient noise levels in the area or the nearest dwelling.

7. CUMULATIVE IMPACTS

The cumulative impacts analysis is important to understanding how multiple actions in a particular time and space (e.g., geographic area) impact the environment. The CEQ regulations define cumulative effects as “...the impact on the environment, which results from the incremental impact of the action when added to other past, present, and reasonably foreseeable future actions regardless of what agency (Federal or non-Federal) or person undertakes such actions” (40 CFR § 1508.7). Whereas the individual impact of one project in a particular area or region may not be considered significant, numerous projects in the same area or region may cumulatively result in significant impacts.

Cumulative impacts most likely arise when a relationship exists between a proposed action and other actions occurring in a similar location or time period. Actions overlapping with or in proximity to the proposed action would be expected to have more potential for a relationship than those more geographically separated. Similarly, actions that coincide in time, may have the potential for cumulative impacts.

Establishing an appropriate scope for cumulative impacts analysis is important for producing meaningful analysis that appropriately informs agency decision making. This involves identifying geographic or temporal boundaries within which to identify other activities that could contribute to cumulative impacts to resources. Boundaries should consider ecologically and geographically relevant boundaries which sustain resources of concern. Temporal boundaries will be dependent on the length of time the effects of the proposed action are estimated to last and analysis commensurate with the project’s impact on relevant past, present, and reasonably foreseeable activities within those boundaries. For example, small scale projects with minimal impacts of short duration would not likely contribute significantly to cumulative impacts. CEQ guidance (2005) reinforces this, stating:

“The scope of the cumulative impact analysis is related to the magnitude of the environmental impacts of the proposed action. Proposed actions of limited scope typically do not require as comprehensive an assessment of cumulative impacts as proposed actions that have significant environmental impacts over a large area. Proposed actions that are typically finalized with a Finding of No Significant Impact usually involve only a limited cumulative impact assessment to confirm that the effects of the proposed action do not reach a point of significant environmental impacts”

This cumulative impacts analysis focuses on the potentially affected resource (identified in section 3.2 of this document) and uses natural local boundaries to establish the geographic scope within which cumulative impacts could occur. Relevant past, present and reasonably foreseeable activities are based on potential geographic and temporal relationships with the proposed action within those identified boundaries. Cumulative effects on those resources are described in Section 7.2.

7.1 Past, Present and Reasonably Foreseeable Actions

Analysis of cumulative analysis is forward looking and focuses on Cleveland County where the proposed action would be implemented and the related area which includes the resources of concern. The purpose is to assess if the reasonably foreseeable effects of the proposed action would have an additive relationship to other past effects that would be significant, and to examine its relationship other actions (e.g. Federal, State, local, and private activities) that are currently taking place or are expected to take place in the reasonably foreseeable future.

Federal, State, local, and private activities that are currently taking place, have occurred in the past, or may reasonably be assumed to take place in the future in the cumulative effects area include the following: According to the 2017 Census of Agriculture, there were 205 farms in Cleveland County and 31,605 acres devoted to farm ground. Cropland accounts for 21% of the land use, Woodland accounts for 39%, grasslands accounts for 30%, and 9% of the land is for other land uses. SEE APPENDIX K-1.

Poultry integrators have a finite processing capacity and have a need for new facilities, such as the proposed project, as older facilities are routinely retired due to functional obsolescence or otherwise phased out of production. As there is no foreseeable expectation that integrators would be having a significant expansion in processing capacity in the area, the quantity of bird produced in the area would remain relatively stable, even if the number of farms fluctuates.

7.2 Cumulative Analysis

Some resources considered for detailed analysis above (in Section 3.2) could be directly or indirectly affected by the Proposed Action and therefore the Proposed Action could contribute to additive or interactive cumulative effects to these resources. For other resources, no such contributions to cumulative effects are anticipated because no direct or indirect impacts would occur based on program requirements.

The significance of cumulative effects is dependent on how impacts compare with relevant thresholds, such as regulatory standards. Regulatory standards can restrict development by establishing thresholds of cumulative resource degradation (CEQ 1997):

“Government regulations and administrative standards...often influence developmental activity and the resultant cumulative stress on resources, ecosystems, and human communities. They also shape the manner in which a project may be operated, the amount of air or water emissions that can be released, and the limits on resource harvesting or extraction.”

Cumulative effects in this analysis are described relative to regulatory standards and thresholds in accordance with CEQ guidance. FSA relies on the authority and expertise of regulatory agencies, which have broad knowledge of regional activities that could affect the sensitive resources they are responsible for protecting, and to ensure through their permitting and consultation processes that its activities are not likely to contribute to significant negative cumulative resource impacts.

7.2.1 Wildlife and Habitat

Contributions of the Proposed Action to cumulative impacts include removal of existing vegetation and the loss and fragmentation of wildlife habitat. No impacts to Threatened and Endangered Species are anticipated based on program requirements. According to the Official Endangered and Threatened Species list that was obtained for this area there are no critical habitats within the proposed project area under USFWS jurisdiction. SEE APPENDIX D-1. Based on the project information and determinations received from the USFWS IPAC website on the Verification letter and correspondence with USFWS, the proposed project would be allowed to continue with no further consultation with USFWS. SEE APPENDIX D-2. The proposed site is currently utilized as pasture ground and primarily established in warm season grasses and native forbs. It would be necessary to remove some trees, which could be utilized for habitat and nesting for various bird species in this area. Such impacts would add to vegetation and habitat lost as a result of past, present and reasonably foreseeable activities in the region of the Proposed Action including loss of native vegetation communities to agriculture, residential and commercial development and road building, recreation and other human activities. The Proposed Action would not be anticipated to result in long term or adverse impacts or to endangered species or their habitat. No cumulative impacts are anticipated based on coordination and consultation with USFWS and program requirements.

7.2.2 Cultural Resources

Based on program requirements, which call for coordination and consultation with State and Tribal Historic Preservation Offices, no impacts to known cultural resources are expected to result from the Proposed Action. There is the potential for encountering unknown cultural resources if the proposal is implemented. Though unlikely, potential loss and damage to unknown cultural resources could occur, adding to similar potential impacts from other past, ongoing, and future developments that have the potential to degrade and destroy cultural resources.

7.2.4 Water Quality

During construction of the Proposed Action there is the potential for mobilization of exposed soil; however those impacts would be temporary and minor, and minimized by adherence to terms of the SWPPP. Such impacts would add to impacts to water quality resulting from residential, municipal, industrial, and commercial development, particularly the use of septic systems, as well as runoff from roads and development, and agricultural production. Once the disturbed areas are revegetated or otherwise stabilized, no impacts to water quality would be expected. Since there are no long-terms effected to water quality, the proposed action would not be expected to contribute significantly to cumulative effects to water quality.

7.2.5 Air Quality

The site of the Proposed Action lies in a rural area of Cleveland County, AR. This proposed operation is surrounded by mixed timberlands to the east, north, and west, which would act as a buffer to filter the odor, dust, and other particulate matter emitted by the existing and proposed poultry houses. Exhaust fans would point towards the west into a wooded area.

Arkansas Water and Air Pollution Control Act, Subchapter 3 Air Pollution exempts "Agricultural operations in the growing or harvesting of crops and the raising of fowls or animals" and the "use of equipment in agricultural operations in the growth of crops or the raising of fowls or animals." There are no local ordinances regulating odor in existence in this area.

Arkansas's Right to Farm Law protects operation of farms that were established prior to the use of the area surrounding the agricultural operation for nonagricultural activities and those farms employ methods or practices commonly or reasonably associated with agricultural production. Management of agricultural soils accounts for over half of agriculture emissions. Activities including fertilizer application, irrigation and tillage, can lead to production and emission of nitrous oxide.

- Livestock, particularly cattle, produce methane as part of their digestion accounting for almost one third of the agricultural emissions.
- Manure storage and management also contribute methane and nitrous oxide, accounting for about 14 percent of the agriculture GHG emissions.
- Smaller agricultural sources include methane produced by rice cultivation and the burning of crop residue, which produces methane and nitrous oxide.

Dust would be generated from soil disturbance and equipment usage during construction and during operation as a result of equipment use, delivery trucks, and feeding systems. Such impacts would be minor, intermittent, and localized. Though such impacts are not expected to be significant, they would add to dust generated by other activities in the immediate vicinity of the farm.

Odor impacts from the proposed action including from the barns, litter storage facility, land application of litter on the farm, though not significant, would add to other sources of odor in the area including existing cattle and poultry farms nearby.

7.2.6 Noise

Increases in noise levels would be minimal compared to existing conditions. There are no local or state noise ordinances, based on Program Requirements.

7.3 IRREVERSIBLE AND IRRETRIEVABLE COMMITMENTS OF RESOURCES

NEPA requires that environmental analysis include identification of any irreversible and irretrievable commitments of resources which would be involved should an action be implemented. The term irreversible refers to the loss of future options and commitments of resources that cannot be renewed or recovered, or can only be recovered over a long period. Irreversible commitments apply primarily to the use of nonrenewable resources, such as minerals or cultural resources, or to factors such as soil productivity, that are renewable only over a long period. Irretrievable refers to the loss of production or use of natural resources. For example, when a road is built through a forest, some, or all of the timber production from an area is lost irretrievably while an area is serving as a road. The production lost is irretrievable, but the action is not irreversible. If the use changes, it is possible to resume timber production. No irreversible resource commitments would occur as a result of the Proposed Action. Irretrievable resources include those raw materials and fuels used during construction. List of Preparers and Persons and Agencies Contacted

8. List of Preparers	
Name and Title	Education and Experience
Adam Kaufman, State Environmental Coordinator, FSA, Arkansas	BS, Crop, Soil, and Environmental Sciences Years of Experience: 14

Persons and Agencies Contacted	
Name and Title	Affiliation
[REDACTED]	Applicant
[REDACTED]	Applicant
Stacy Hurst	Arkansas SHPO
Thomas Inebnit	US Fish and Wildlife Service
[REDACTED]	[REDACTED]
Darrin Cisco	Apache Tribe of Oklahoma
Everett Bandy	Quapaw Tribe of Indians
Elizabeth Toombs	Cherokee Nation
Derek Hill	Caddo Nation
Lindsey D. Bilyeu	Choctaw Nation of Oklahoma
Maddie Daniel Currie	Choctaw Nation of Oklahoma
Linda Langley	Coushatta Tribe of Louisiana
Alina Shively	Jena Band of Choctaw Indians

Chief Phyliss Anderson	Mississippi Band of Choctaw Indians
Tonya Tipton	Shawnee Tribe of Oklahoma
Acee Watt	United Keetoowah Band of Cherokee Indians
Frank Walker	TSP for Stormwater Plan

8. REFERENCES

CEQ 1997. Council on Environmental Quality (CEQ). 1997. Guidance under the National Environmental Policy Act. December.

Arkansas Water Plan:

<http://www.arwaterplan.arkansas.gov/plan/ArkansasWaterPlan/AppendicesUpdate.htm>

National Agricultural Statistics Service (NASS):

https://www.nass.usda.gov/Publications/AgCensus/2017/Online_Resources/County_Profiles/Arkansas/index.php:

Web Soil Survey (WSS): <https://websoilsurvey.nrcs.usda.gov/app/HomePage.htm>

IPAC (Information: <https://ecos.fws.gov/ipac/>

FEMA: <https://msc.fema.gov/portal>

NEPASSIST: <https://www.epa.gov/nepa/nepassist>

Arkansas Department of Environmental Quality (ADEQ), Impaired Streams/TMDL Lists:

<https://www.adeq.state.ar.us/water/>

Arkansas Department of Environmental Quality (ADEQ), Rules and Regulations:

<https://www.adeq.state.ar.us/regs/>

Arkansas Natural Resource Commission (ANRC) Regs: <http://www.anrc.arkansas.gov/rules/current-rules/>

Arkansas Air Pollution Control Regulations:

https://www.adeq.state.ar.us/regs/files/reg18_final_160314.pdf

EPA 2016a. US Environmental Protection Agency Sources of Greenhouse Gas Emissions. Available at:

<https://www.epa.gov/ghgemissions/sources-greenhouse-gas-emissions#agriculture>. Accessed March 1, 2017.

EPA 2016b. US Environmental Protection Agency Greenhouse Gas Data Explorer. Available at:

<https://www3.epa.gov/climatechange/ghgemissions/inventoryexplorer/>. Accessed March 1, 2017.

National Forest Service: <https://www.fs.usda.gov/osfnf>

University of Arkansas Research and Extension: Jefferson County:

<https://www.uaex.edu/business-communities/strategic-planning/docs/county-profiles/sevier-county-profile.pdf>

Arkansas Air Pollution Control Regulations:

https://www.adeq.state.ar.us/regs/files/reg18_final_160314.pdf

Arkansas Right to Farm:

[http://www.farmlandinfo.org/sites/default/files/Arkansas RTF law 1.htm](http://www.farmlandinfo.org/sites/default/files/Arkansas%20RTF%20law%201.htm)

Arkansas 2018-2023 NPS Pollution Management Plan [https://static.ark.org/eeuploads/anrc/2018-2023 NPS Pollution Management Plan.compressed \(2\).pdf](https://static.ark.org/eeuploads/anrc/2018-2023%20NPS%20Pollution%20Management%20Plan.compressed%20(2).pdf)

9. EA DETERMINATION AND SIGNATURES

ENVIRONMENTAL DETERMINATION – The FSA preparer of the EA determines:

1. Based on an examination and review of the foregoing information and supplemental documentation attached hereto, I find that this proposed action
 - ☐ would have a significant effect on the quality of the human environment and an Environmental Impact Statement (EIS) must be prepared;
 - ☐ would not have a significant effect on the quality of the human environment and, therefore, an EIS will not be prepared.
2. I recommend that the Project Approval Official for this action make the following compliance determinations for the below-listed environmental requirements.

Not in compliance	In compliance	Not applicable	
			National Environmental Policy Act
			Clean Air Act
			Clean Water Act
			Safe Drinking Water Act
			Endangered Species Act
			Coastal Barrier Resources Act
			Coastal Zone Management Act
			Wild and Scenic Rivers Act/National Rivers Inventory
			National Historic Preservation Act
			Subtitle B, Highly Erodible Land Conservation, and Subtitle C, Wetland Conservation, of the Food Security Act
			Executive Order 11988 and 13690, Floodplain Management
			Executive Order 11990, Protection of Wetlands
			Farmland Protection Policy Act
			Department Regulation 9500-3, Land Use Policy
			E.O. 12898, Environmental Justice

3. I have reviewed and considered the types and degrees (context and intensity) of adverse environmental impacts identified by this assessment. I have also analyzed the proposal for its consistency with FSA environmental policies, particularly those related to important farmland protection, and have considered the potential benefits of the proposed action. Based upon a consideration of these factors, from an environmental standpoint, this project may:
 - ☐ Be approved without further environmental analysis and a Finding of No Significant Impact (FONSI) prepared.
 - ☐ Not be approved because of the reasons identified under item b.

Signature of Preparer	Date
Name and Title of Preparer (print)	

Environmental Determination – FSA State Environmental Coordinator determines:

Based on my review of the foregoing Environmental Assessment and related supporting documentation, I have determined:

- ☐ The appropriate level of environmental review and assessment has been completed, and substantiates a Finding of No Significant Impact (FONSI); therefore, an EIS will not be prepared and processing of the requested action may continue without further environmental analysis. A FONSI will be prepared.

- ☐ The Environmental Assessment is not adequate and further analysis or action is necessary for the following reason(s):

- ☐ The Environmental Assessment has established the proposed action cannot be approved for the following reason(s):

Additional SEC Comments:

Signature of SEC	Date
Printed Name	

