

Wednesday, May 13, 2020

NOTICE: County buildings are closed to the public due to COVID-19 concerns and restrictions on public gatherings of no more than 10 people, as set forth by Governor Reynolds in her State of Public Health Emergency Disaster Proclamation. To access and participate in the meetings remotely, please call 641-939-8108 for meeting information.

- 9:00 A.M. Call To Order
 Courthouse Large Conference Room
- 2. Pledge Of Allegiance
- 3. Approval Of Agenda
- 4. Approval Of Minutes

Documents:

04-29-2020 MINUTES.PDF 05-04-2020 MINUTES.PDF

- Motion To Correct Scrivener Error In Minutes From April 15, 2020. Correction To Change Reference From Section 13 To Section 16 In Minutes Regarding Ferris Pork Site CAFO Permit Application.
- 6. Approval Of Claims For Payment

Documents:

VENDOR PUBLICATION REPORT 5-13-20.PDF

7. Utility Permits & Secondary Roads Department

Documents:

HEART OF IOWA PERMIT APPLICATION.PDF WINDSTREAM PERMIT APPLICATION.PDF

8. Recorder's Monthly Report

Documents:

RECORDER MONTHLY REPORT.PDF

- 9. Approval Of 28E Agreement With IGHCP
- 10. Appoint IGHCP Board Representative
- 11. Approval Of Open Enrollment 2020/2021

- 12. Recommendation To The DNR On Animal Feeding Operation Construction Permit Application: Tri-B Site, Section 8, Alden/Hardin Township
- 13. Recommendation To The DNR On Animal Feeding Operation Construction Permit Application: Ferris Pork Site, Section 16, Ellis Township

Documents:

FERRIS PORK 2020 EXPANSION CONSTRUCTION PACKAGE.PDF

14. Change Of Status - Community Services

Documents:

CHANGE OF STATUS - COMMUNITY SERVICES.PDF

15. Change Of Status - Secondary Roads

Documents:

CHANGE OF STATUS - SECONDARY ROADS 1.PDF CHANGE OF STATUS - SECONDARY ROADS 2.PDF

- 16. COVID-19 Update
- 17. Public Comments
- 18. Other Business
- 19. Adjournment/Recess
- 9:30 A.M. Drainage Courthouse Large Conference Room
- 21. 3:00 P.M. Department Head Meeting Courthouse Large Conference Room

HARDIN COUNTY BOARD OF SUPERVISORS MINUTES – APRIL 29, 2020 WEDNESDAY - 9:00 A.M. COURTHOUSE LARGE CONFERENCE ROOM

Chair Lance Granzow called the meeting to order. The meeting was held electronically due to COVID-19 public health risks. Also in attendance were Supervisors BJ Hoffman and Reneé McClellan; and Angela De La Riva, Taylor Roll, Matt Jones, Michael Pearce, Thomas Craighton, Curt Groen, Dave McDaniel, Rocky Reents, Jessica Sheridan, Mark Buschkamp, Lori Kadner, Darrell Meyer, Micah Cutler, Machel Eichmeier, Donna Juber, Bob Juber, Dave Dunn, John Cook, Jessica Lara, John Zimmerman, Julie Duhn, Rudolfo Padilla, Justin Ites, and Angela Silvey.

The Pledge of Allegiance was recited.

McClellan moved, Hoffman seconded to approve the agenda as posted. Motion carried.

Hoffman moved, McClellan seconded to approve the minutes of April 22, 2020. Motion carried.

McClellan moved, Hoffman seconded to approve the April 29, 2020 claims for payment. Motion carried.

Utility Permits:

McClellan moved, Hoffman seconded to approve Hardin County Utility Permit Application UT-20-019, submitted by Heart of Iowa Communications Coop. Motion carried.

John Cook, US Census Bureau, provided an update on Hardin County residents' response to the 2020 Census.

WHEREUPON Board Member McClellan moved that the following Resolution be adopted:

APPROPRIATIONS RESOLUTION AMENDMENT

RESOLUTION No. 2020-17

On April 22, 2020, a budget hearing for an amendment was held. The budget amendment was approved and the following appropriation amendments shall be made as deemed necessary:

Office or Department Amended Appropriation Amount

General Assistance\$6,000Mental Health\$381,000Secondary Roads/Engineer\$630,000

Motion was seconded by Board Member Hoffman and after due consideration thereof, the roll was called and the following Board Members voted:

AYES: McClellan, Hoffman, and Granzow

NAYS: <u>None</u> ABSENT: <u>None</u> ABSTAIN: <u>None</u>

Whereupon, the Chair of the Board of Supervisors declared said Resolution duly passed and adopted this 29th day of April, 2020.

/s/ Lance Granzow Lance Granzow, Chairman Board of Supervisors

ATTEST:

/s/ Jessica Lara Jessica Lara

Hardin County Auditor

McClellan moved, Hoffman seconded to approve the Iowa DOT Secondary Roads FY 2020 budget amendment. Roll Call Vote: "Ayes" McClellan, Hoffman, and Granzow. "Nays" None. Motion carried.

Hoffman moved, McClellan seconded to appoint Taylor Roll as ADA Coordinator for Hardin County. Motion carried.

McClellan moved, Hoffman seconded to approve the abatement of taxes as presented by County Treasurer Machel Eichmeier. Motion carried.

McClellan moved, Hoffman seconded to approve the letter of support for the Industrial Rail Park Site Certification, with the following change: extending the road vacation time frame from two months to four months. Motion carried.

McClellan moved, Hoffman seconded to approve the Iowa River Trail paving contract with Snyder & Associates, Inc. Motion carried.

Hoffman moved, McClellan seconded to approve that COBRA administration be handled by Employee Benefits System (EBS) through IGHCP effective July 1, 2020. Motion carried.

McClellan moved, Hoffman seconded to approve the discharge of Korey Sederberg, part-time Correctional Officer, effective 04/20/2020. Motion carried.

McClellan moved, Hoffman seconded to approve the hiring of Blake Daniel Munro, part-time Sheriff's Deputy, at a rate of \$19.00/hour, effective 04/29/2020. Motion carried.

COVID-19 Update:

Rocky Reents addressed questions about who is eligible for COVID-19 testing, referencing the criteria listed on the State Hygienic Lab website.

Public Comments:

Comments were received from Julie Duhn regarding money spent on the Courthouse security guard.

Other Business: None.

McClellan moved, Hoffman seconded to adjourn. Motion carried.

At 10:03 a.m. Chair Granzow opened the public hearing on the Animal Feeding Operation Construction Permit – Tri-B Site, Section 8, Alden/Hardin Township. The hearing was held electronically due to COVID-19 public health risks. Also in attendance: Supervisors Hoffman and McClellan; and Michael Pearce, Seth Wingert, Donna Juber, Bob Juber, Curt Groen, Julie Duhn, Brent Tripp, Rudolfo Padilla, Bob Havens, Jessica Sheridan, Darrell Meyer, and Angela Silvey.

Seth Wingert reviewed the construction permit application.

Oral comments were heard from Donna Juber regarding lack of information on livestock stockpiling and composting and from Julie Duhn on lack of information in other areas of the application. Bob Havens commented on the County's Chapter 459 Public Comment and Public Hearing Policy and on hog market instability and subsidies.

Written comments were received from Amy Gray and Donna Juber.

There being no other comments or objections, Hoffman moved, McClellan seconded to close the public hearing. Motion carried.

McClellan moved, Hoffman seconded to adjourn. Motion carried.

At 11:01 a.m. Chair Granzow opened the public hearing on the Animal Feeding Operation Construction Permit – Ferris Pork Site, Section 16, Ellis Township. The hearing was held

electronically due to COVID-19 public health risks. Also in attendance: Supervisors Hoffman and McClellan; and Michael Pearce, Kris Johnston, Del Johnston, Curt Groen, Bob Havens, Donna Juber, Bob Juber, Julie Duhn, Jessica Sheridan, Darrell Meyer, and Angela Silvey.

Proof of publication was verified by Jessica Sheridan, Environmental Health Specialist/Sanitarian.

Del Johnston reviewed the construction permit application.

Oral comments were heard from Donna Juber regarding separation distances and the applicant's ineligibility to claim the Family Farm Tax Credit on land that is leased, not owned. Julie Duhn commented on hog market uncertainty, environmental impacts, and worker and food safety. Bob Havens echoed Juber on the Family Farm Tax Credit and restated comments from the 10 a.m. hearing.

Johnston stated that Ferris Pork, LLC, will own all the ground on which the barns will be sited.

Written comments were received from Amy Gray.

There being no other comments or objections, McClellan moved, Hoffman seconded to close the public hearing. Motion carried.

McClellan moved, Hoffman seconded to adjourn. Motion carried.

At 12:33 p.m., the department heads/elected officials meeting was called to order. The meeting was held electronically due to COVID-19 public health risks. In attendance: Supervisors Granzow, Hoffman and McClellan; and Angela De La Riva, Jody Mesch, Jessica Lara, Linn Adams, Thomas Craighton, Bernie Koehrsen, Lori Kadner, Matt Jones, Taylor Roll, Donna Juber, Bob Juber, Dave McDaniel, Machel Eichmeier, Darrell Meyer, Wes Wiese, Julie Duhn, Don Knoell, Michael Pearce, and Angela Silvey.

Discussion was held on reopening County buildings to the public. Arrangements have been made to install plexiglass in offices and, per the recommendation of Thomas Craighton, Emergency Management Coordinator, Board meetings should continue via Zoom. Collectively it was decided to keep buildings closed at present; if buildings reopen, to allow visitors by appointment only; to look into testing visitors as they enter; and to provide masks for employees.

Employee transportation during the pandemic was addressed, specifically whether or not employees are permitted to travel in the same vehicle to different job sites, as is customary in Secondary Roads. It was agreed masks should be made available. However, Granzow noted, if an employee is uncomfortable, they should be given the space they need.

Other Business:

County Treasurer Machel Eichmeier had questions about her budget and paying for plexiglass.

County Auditor Jessica Lara asked the Board to consider the impact the economic shutdown may have on the County's revenues and budget and to be ready to provide guidance on potential cuts.

Eichmeier stated that there is \$1 million in taxes her department has not collected and expressed concern that taxing authorities will not get the monies for which they budgeted.

A follow-up meeting with department heads will be held May 13, 2020 to further discuss a timetable for reopening, taking into consideration the County's COVID-19 trend at that time.

At 1:37 p.m. Hoffman moved, McClellan seconded to adjourn. Motion carried.

Lance Granzow, Chair	Jessica Lara
Board of Supervisors	Hardin County Auditor

HARDIN COUNTY BOARD OF SUPERVISORS MINUTES – MAY 4, 2020 MONDAY - 1:00 P.M. COURTHOUSE LARGE COURTROOM

Chair Lance Granzow called the meeting to order. Also present were Supervisors BJ Hoffman and Reneé McClellan; and Darrell Meyer, Jessica Sheridan, and Angela Silvey. Carl Salmons, Heartland Insurance Risk Pool attorney, joined the meeting via phone.

McClellan moved, Hoffman seconded to go into closed session as allowed under Iowa Code Section 21.5(1)(c). Roll Call Vote: "Ayes" McClellan, Hoffman, and Granzow. "Nays" None. Motion carried.

Following discussion, Hoffman moved, McClellan seconded to return to open session. Roll Call Vote: "Ayes" Hoffman, McClellan, and Granzow. "Nays" None. Motion carried.

Hoffman moved, McClellan seconded to adjourn.	Motion carried.
Lance Granzow, Chair	Jessica Lara
Board of Supervisors	Hardin County Auditor

Ahlers & Cooney-P.C.	\$1,700.00
Airgas North Central	\$466.95
Alliant Energy	\$706.30
Bauer Built Tire	\$1,665.40
Beaver Creek Detailing and Glass	\$240.00
Campbell Supply Co	\$837.33
Central Iowa Distr Inc	\$394.30
Central Iowa Fabrication	\$104.59
CenturyLink	\$51.00
City of Ackley	\$150.00
City of Alden	\$29.34
City of Eldora	\$3,047.62
Clapsaddle-Garber Assoc	\$866.50
Cooks Correctional	\$101.62
Counsel Office & Document	\$15.45
Culligan	\$2,325.85
Eldora Hardware	\$259.33
Galls Incorporated	\$62.58
Gehrke Inc.	\$519.37
Hansen Family Hospital	\$540.85
Hardin Co Solid Waste & Recycling	\$207.00
Hardin Co Tire & Service Inc	\$1,224.70
Hardin County Office Supplies	\$23.57
Hardin County Sheriff	\$203.50
Heart of Iowa	\$715.34
IACCVSO	\$50.00
lowa Falls Fire Extinguisher	\$34.50
Iowa Falls Glass Inc	\$257.52
Jones Appliance	\$1,191.36
Lawson Products Inc	\$1,045.95
Linn Adams	\$40.00
Martin Marietta Aggregate	\$4,392.47
Mend Correctional Care PLLC	\$10,417.52
Metal Culverts, Inc.	\$64,699.90
Michael Lancaster	\$40.00
Mid-America Publishing Corp	\$847.31
Napa Auto Parts	\$829.87
NAPA Auto Parts	\$2,347.35
O'Reilly Auto Parts Inc	\$292.44
Petroblend	\$631.70
Plastic Recycling Inc	\$930.96
Quaker Security LLC	\$1,275.00
R Comm Wireless	\$55.00
Radcliffe Telephone Co	\$313.57
RC Systems- Waterloo Office	\$705.00
Region Six Planning Comm	\$2,071.35
Storey Kenworthy	\$2,951.62
Story County Auditor	\$380,966.57
Summit Food Service LLC	\$3,000.67
Times Citizen	\$150.72
Transit Works	\$127.66
US Bank Equipment Finance	\$4,317.81
Veridian Credit Union	\$1,948.34
Woodley Funeral Services LLC	\$467.00
Ziegler Incorporated	\$3,471.77

Lance Granzow, Chair Board of Supervisors	Jessica Lara Hardin County Auditor	

\$506,329.42

Grand Total



HARDIN COUNTY UTILITY PERMIT APPLICATION

Permit No: UT-20-	021				
	☑ Permanent Installation☐ Temporary Installation				
agrees to comply with the County Engineer a	Application for telecommunication the following permit requirement is deemed necessary to promote only unless waived in writing by the	ts. Compli e public he	ance shall be dete alth, safety, and g	rmined b eneral we	y the sole discretion of elfare. These
APPLICANT NAME:	Heart of Iowa Communi	cations			
STREET ADDRESS:	502 Main Street				
CITY: Union		STATE:	lowa	ZIP:	50258
PHONE: (641) 486				Jay D	uncan
	uried fiber communications cable				
THE OF WORK.					
1. LOCATION PLAN An applicant shall file a plan shall set forth the proposed installation.	a completed location plan as an location of the proposed line on	attachmer the secon	nt to this Utility Per ndary road system	mit Appli and inclu	cation. The location lide a description of the
	g days prior to the proposed inst ne time, date, location, and natu				e County Engineer a
with this Utility Permit. identification, to enter	may provide a full-time inspector The inspector shall have the rig any installation site in the discha is reasonably necessary to prote	ht, during irge of the	reasonable hours inspector's official	and after duties, a	showing proper and to make any
Engineer. Within thirty	y actual costs directly attributable (30) days after completion of the rendered. The applicant agrees	e installation	on, the County Eng	gineer sh	all submit a statement
5. REQUIREMENTS					

The installation inspector shall assure that the following requirements have been met:

- A. Construction signing shall comply with the Manual on Uniform Traffic Control Devices
- B. Depth (Add additional depth if ditch has silted to the thickness of the deposited silt.) The minimum depth of cover shall be as follows:

- C. Minimum roadway overhead clearance for utility lines shall be 20 feet.
- D. The applicant shall use reference markers in the right-of-way (ROW) boundary to locate line and changes in alignment as required by the County Engineer. A permanent warning tape shall be placed one (1) foot above all underground utility lines.
- E. All tile line locations shall be marked with references located in the ROW line.
- F. No underground utility lines shall cross over a crossroad drainage structure without approval from the County Engineer.
- G. Residents along the utility route shall have uninterrupted access to the public roads. An all weather access shall be maintained for residents adjacent to the project.
- H. After construction, granular surfacing shall be added to the road by the applicant to restore the road to its original condition. After surfacing has been applied, the road surface shall be reviewed by the County Engineer once the road has been saturated, to determine if additional surfacing on the roadway by the applicant is necessary.
- I. All damaged areas within the ROW shall be repaired and restored to at least their former condition by the applicant or the cost of any repair work caused to be performed by the county will be assessed against the applicant.
- J. Areas disturbed during construction which present an erosion problem shall be solved by the applicant in a manner approved by the County Engineer.
- K. All trenches, excavations, and utilities that are knifed shall be properly tamped.
- L. All utilities shall be located between the bottom of the backslope and the bottom of the foreslope, unless otherwise approved in writing by the County Engineer prior to installation.
- M. Road crossing shall be bored. The depth below the road surface shall match the minimum depth of cover for the respective utility.

6. NON-CONFORMING WORK

The County Engineer may halt the installation at any time if the applicant's work does not meet the requirements set forth in this Utility Permit Application.

7. COUNTY INFRACTION

Violation of this permit is a county infraction under Iowa Code Section 331.307, punishable by a civil penalty of \$100 for each violation. Each day that a violation occurs or is permitted to exist by the applicant constitutes a separate offense.

8. HOLD HARMLESS

The utility company shall save this county harmless of any damages resulting from the applicant's operations. A copy of a certificate of insurance naming this county as an additional insured for the permit work shall be filed in the County Engineer's Office prior to installation. The minimum limits of liability under the insurance policy shall be \$1,000,000.

9. PERMIT REQUIRED

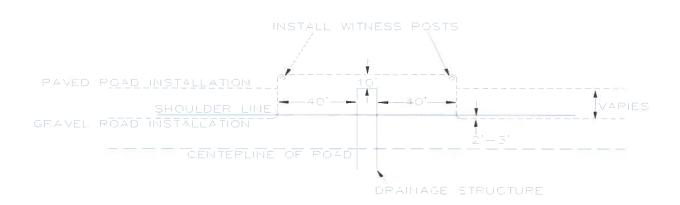
No applicant shall install any lines unless such applicant has obtained a Utility Permit from the County Engineer and has agreed in writing that said installation will comply with all ordinances and requirements of the county for such work. Applicants agree to hold the county free from liability for all damage to applicant's property which occurs proximately as a result of the applicant's failure to comply with said ordinances or requirements.

10. RELOCATION

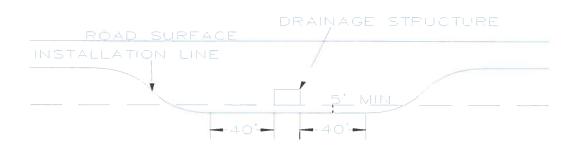
The applicant shall, at any time subsequent to installation of utility lines, at the applicant's own expense, relocate or remove such lines as may become necessary to conform to new grades, alignment or widening of ROW resulting from maintenance or construction operations for highway improvements.

DATE: 5/6/2020	COMPANY: Heart of Iowa Communications
SIGNATURE: Filled out online	
RECOMMENDED FOR APPROVA	L:
DATE:	COUNTY ENGINEER
APPROVAL:	
DATE:	CHAIRMAN, BOARD OF SUPERVISORS
	CHAINMAN, BOAND OF GOT ENVIOUNG

NON-BORED INSTALLATION DETAIL



BORED INSTALLATION DETAIL



HARDIN COUNTY UTILITY PERMIT APPLICATION



Permit No: 17-20-022	TO NOARY ROS
Underground □ Aerial	✓ Permanent Installation✓ Temporary Installation OSP-19585 / WO# 71329239500000
APPLICANT NAME: Windstream Iowa Communications	s, LLC
STREET ADDRESS: 4001 N Rodney Parham Rd	
CITY: Little Rock	STATE: AR ZIP: 72212
PHONE: 501-748-7984 FAX:	CONTACT PERSON: Kyle Petty
TYPE OF WORK: Requires 4500' buried fiber build from	n splice point (2000278524) in HH near the corner of Main St
	n attachment to this Utility Permit Application. The location the secondary road system and include a description of the
2. WRITTEN NOTICE At least five (5) working days prior to the proposed in written notice stating the time, date, location, and nation	stallation, an applicant shall file with the County Engineer a ure of the proposed installation.
with this Utility Permit. The inspector shall have the right	or during the installation of all lines to ensure compliance ght, during reasonable hours and after showing proper arge of the inspector's official duties, and to make any tect the public health, safety, and welfare.
Engineer. Within thirty (30) days after completion of the	ole to the installation inspection conducted by the County the installation, the County Engineer shall submit a statement as to reimburse the county within thirty (30) days of billing.
5. REQUIREMENTS The installation inspector shall assure that the following	ng requirements have been met:
Construction signing shall comply with the Ma Depth – (Add additional depth if ditch has silt of cover shall be as follows:	anual on Uniform Traffic Control Devices ed to the thickness of the deposited silt.) The minimum depth

Telecommunications.... 36" Electric......48" Gas......48" Water.....60" Sewer.....60"

C. Minimum roadway overhead clearance for utility lines shall be 20 feet.

- The applicant shall use reference markers in the right-of-way (ROW) boundary to locate line and changes in alignment as required by the County Engineer. A permanent warning tape shall be placed one (1) foot above all underground utility lines.
- All tile line locations shall be marked with references located in the ROW line.
- F. No underground utility lines shall cross over a crossroad drainage structure without approval from the County Engineer.
- G. Residents along the utility route shall have uninterrupted access to the public roads. An all weather access shall be maintained for residents adjacent to the project.
- H. After construction, granular surfacing shall be added to the road by the applicant to restore the road to its original condition. After surfacing has been applied, the road surface shall be reviewed by the County Engineer once the road has been saturated, to determine if additional surfacing on the roadway by the applicant is necessary.
- I. All damaged areas within the ROW shall be repaired and restored to at least their former condition by the applicant or the cost of any repair work caused to be performed by the county will be assessed against the applicant.
- J. Areas disturbed during construction which present an erosion problem shall be solved by the applicant in a manner approved by the County Engineer.
- K. All trenches, excavations, and utilities that are knifed shall be properly tamped.
- All utilities shall be located between the bottom of the backslope and the bottom of the foreslope, unless otherwise approved in writing by the County Engineer prior to installation.
- M. Road crossing shall be bored. The depth below the road surface shall match the minimum depth of cover for the respective utility.

6. NON-CONFORMING WORK

The County Engineer may halt the installation at any time if the applicant's work does not meet the requirements set forth in this Utility Permit Application.

7. COUNTY INFRACTION

Violation of this permit is a county infraction under Iowa Code Section 331.307, punishable by a civil penalty of \$100 for each violation. Each day that a violation occurs or is permitted to exist by the applicant constitutes a separate offense.

8. HOLD HARMLESS

The utility company shall save this county harmless of any damages resulting from the applicant's operations. A copy of a certificate of insurance naming this county as an additional insured for the permit work shall be filed in the County Engineer's Office prior to installation. The minimum limits of liability under the insurance policy shall be \$1,000,000.

9. PERMIT REQUIRED

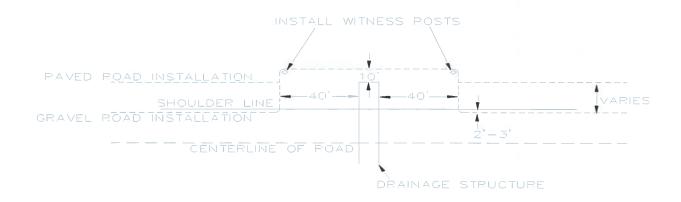
No applicant shall install any lines unless such applicant has obtained a Utility Permit from the County Engineer and has agreed in writing that said installation will comply with all ordinances and requirements of the county for such work. Applicants agree to hold the county free from liability for all damage to applicant's property which occurs proximately as a result of the applicant's failure to comply with said ordinances or requirements.

10. RELOCATION

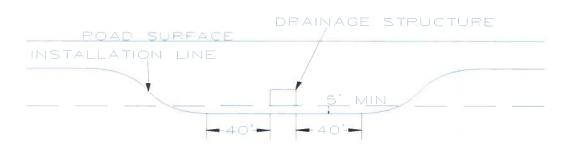
The applicant shall, at any time subsequent to installation of utility lines, at the applicant's own expense, relocate or remove such lines as may become necessary to conform to new grades, alignment or widening of ROW resulting from maintenance or construction operations for highway improvements.

DATE: 05/08/2020	COMPANY: Windstream Iowa Communications, LLC			
SIGNATURE: Kyle Petty				
RECOMMENDED FOR APPROVAL				
DATE:	COUNTY ENGINEER			
APPROVAL:				
DATE:	CHAIRMAN, BOARD OF SUPERVISORS			

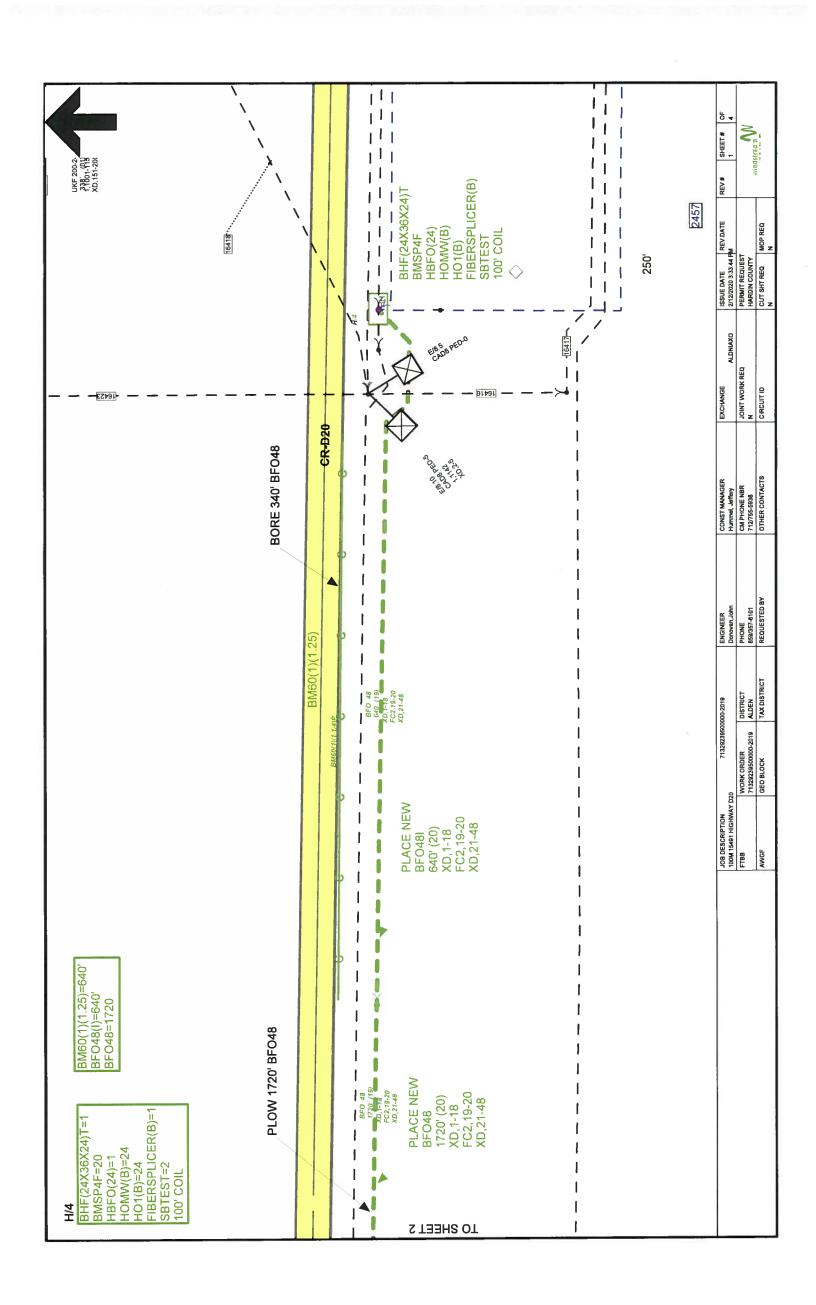
NON-BORED INSTALLATION DETAIL

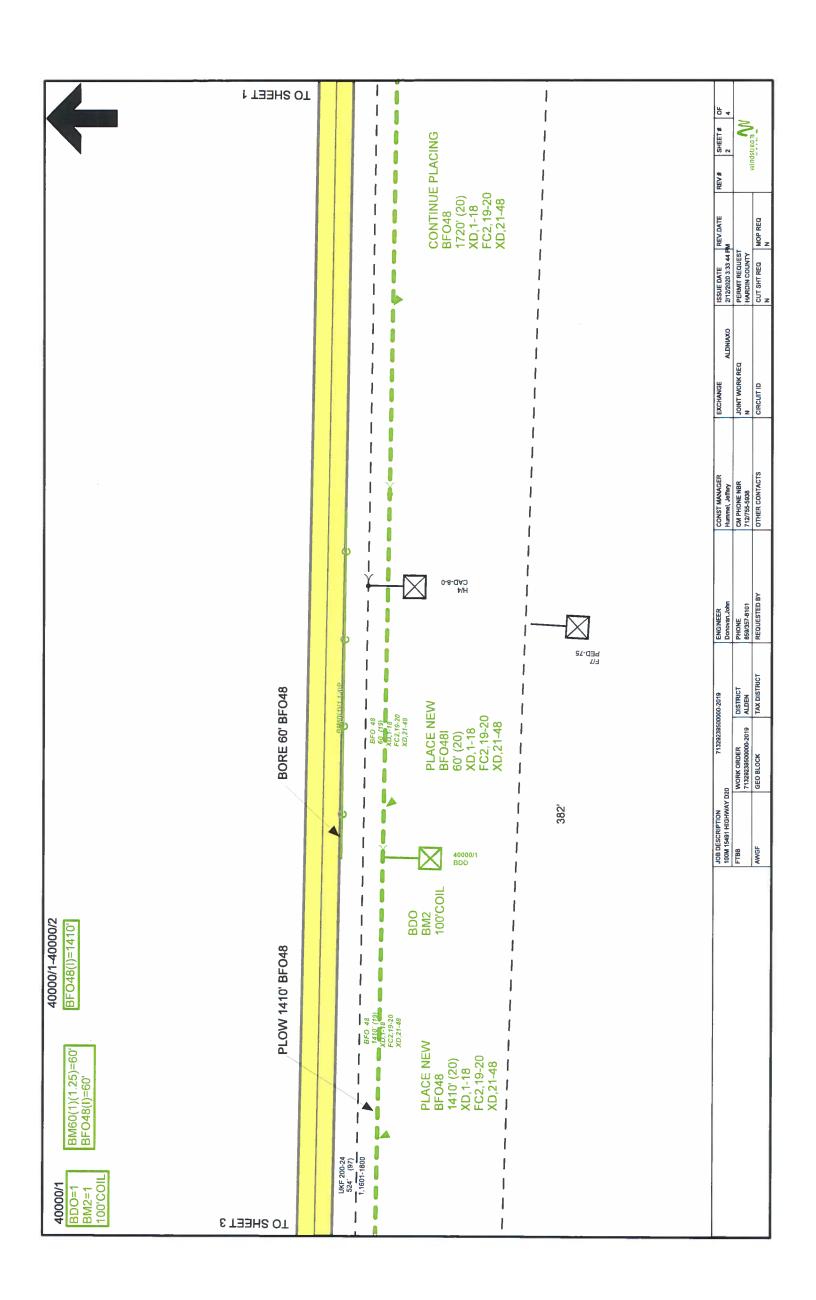


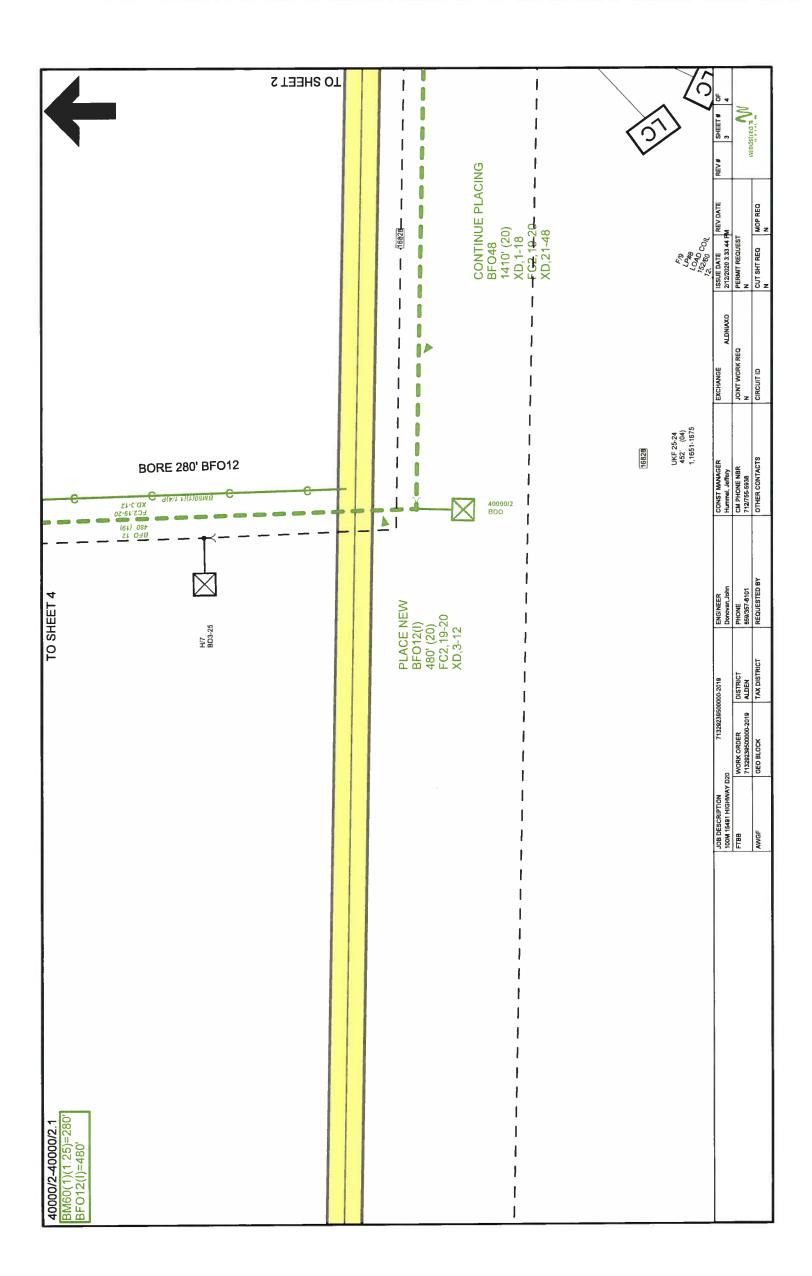
BORED INSTALLATION DETAIL



January 2012







REV# SHEET# OF Windstred W ISSUE DATE REV.DATE
2/12/2020 3:33:44 PM
PERMIT REQUEST
N CUT SHT REQ MOP REQ N ALDNIAXO JOINT WORK REQ N CIRCUIT ID BOD HO1(B) HBFO(12) BM2 EXCHANGE 4000012.1 BDO TO SHEET 3 CONST MANAGER
Hummel, Jeffery
CM PHONE NBR
712/755-5938
OTHER CONTACTS PM21F(12)(400) HO1(B) TRACEWIRE ENGINEER Donovan,John PHONE BSQ/357-8101 REQUESTED BY CONTINUE PLACING BFO12(I) 480' (20) FC2, 19-20 XD,3-12 | JOB DESCRIPTION | 100M 15491 HIGHWAY D20 | 1 2781-1881,1 1-NID-25 QUALITY AQ 15491 ALDNIAAJ PM21F(12)(400)=1 HO1(B)=2 TRACEWIRE=400 40000/FDP BOD=1 HO1(B)=2 HBFO(12)=1 BM2=1 40000/2.1

COUNTY RECORDER'S REPORT OF FEES COLLECTED

(See Chapter 342, Code)

State of IOWA County of)	SS: HARDIN COUNTY	
TO: The Board of Super	visors	of HARDIN COUNTY	
certify that the following is	a true Pori	f the above-named County and and correct statement of the following through Δ through Γ the County Treasurer.	ees collected by me in
All of which is respectfully	submit	tted.	
Cornel D. J LORIS. KADNER	Ran	OUNTY RECORDER	05/06/2020 DATED
JESSICA LARA		COUNTY AUDITOR	_
CHAIRMAN	В	OARD OF SUPERVISORS	_

Recorder's Monthly Report to the Treasurer

04/01/2020 to 04/30/2020

Liability		
Account Number	Description	Ne
0001-1-07-8000-400000-2	Use Tax-DOR	(\$120.00)
0001-1-07-8000-400000-3	State Sales Tax-DOR	(\$393.00)
0001-1-07-8000-400000-4	Local Option Tax-DOR	(\$65.50)
0001-1-07-8000-401000-1	Snowmobile Registration Fees-State	(\$16.50)
0001-1-07-8000-401001	Snowmobile Titles - State	(\$6.50)
0001-1-07-8000-402000	RVVRS Boat Registration Fees - State	(\$259.05)
0001-1-07-8000-402001-1	RVVRS Boat Titles - State	(\$6.00)
0001-1-07-8000-402001-2	RVVRS Boat Titles - DOR	(\$20.00)
0001-1-07-8000-403000-1	Hunting & Fishing Fees-State	(\$295.50)
0001-1-07-8000-404000-2	Real Estate Transfer Tax-State	(\$8,390.22)
0001-1-07-8000-406000-1	Vitals Certified Copies-State	(\$792.00)
0001-1-07-8000-407000-1	ATV Registration Fees-State	(\$428.00)
0001-1-07-8000-407000-2	ATV Titles-State	(\$65.00)
0001-1-07-8000-407000-3	ATV Liens-State	(\$26.00)
		The second secon
	Marriage License-State	(\$155.00) (\$11,038.27)
0001-1-07-8000-413001-1 Total Revenue		(\$11,038.27)
Total Revenue Account Number	Description	(\$11,038.27) Net
Total Revenue Account Number 0001-1-07-8000-400000	Description Recording of Instruments	(\$11,038.27) Net
Total Revenue Account Number 0001-1-07-8000-400000 0001-1-07-8000-401000	Description Recording of Instruments Snowmobile Writing Fees (\$5.00)-County	(\$11,038.27) Net (\$7,080.00)
Total Revenue Account Number 0001-1-07-8000-400000 0001-1-07-8000-401000 0001-1-07-8000-402001	Description Recording of Instruments Snowmobile Writing Fees (\$5.00)-County RVVRS Boat Titles - County	(\$11,038.27) Net (\$7,080.00) (\$5.00)
Total Revenue Account Number 0001-1-07-8000-400000 0001-1-07-8000-401000	Description Recording of Instruments Snowmobile Writing Fees (\$5.00)-County	(\$11,038.27) Net (\$7,080.00) (\$5.00) (\$20.00)
Total Revenue Account Number 0001-1-07-8000-400000 0001-1-07-8000-401000 0001-1-07-8000-402001	Description Recording of Instruments Snowmobile Writing Fees (\$5.00)-County RVVRS Boat Titles - County	(\$11,038.27) Net (\$7,080.00) (\$5.00) (\$20.00) (\$5.25)
Total Revenue Account Number 0001-1-07-8000-400000 0001-1-07-8000-401000 0001-1-07-8000-402001 0001-1-07-8000-403000	Description Recording of Instruments Snowmobile Writing Fees (\$5.00)-County RVVRS Boat Titles - County Hunting & Fishing Fees-County	(\$11,038.27) Net (\$7,080.00) (\$5.00) (\$20.00) (\$5.25) (\$1,748.98)
Total Revenue Account Number 0001-1-07-8000-400000 0001-1-07-8000-401000 0001-1-07-8000-403000 0001-1-07-8000-404000	Description Recording of Instruments Snowmobile Writing Fees (\$5.00)-County RVVRS Boat Titles - County Hunting & Fishing Fees-County Real Estate Transfer Tax-County	(\$11,038.27) Net (\$7,080.00) (\$5.00) (\$20.00) (\$5.25) (\$1,748.98) (\$288.00)
Total Revenue Account Number 0001-1-07-8000-400000 0001-1-07-8000-401000 0001-1-07-8000-402001 0001-1-07-8000-404000 0001-1-07-8000-404000 0001-1-07-8000-406000	Description Recording of Instruments Snowmobile Writing Fees (\$5.00)-County RVVRS Boat Titles - County Hunting & Fishing Fees-County Real Estate Transfer Tax-County Vitals Certified Copies-County	(\$11,038.27) Net (\$7,080.00) (\$5.00) (\$20.00) (\$5.25) (\$1,748.98) (\$288.00) (\$70.00)
Total Revenue Account Number 0001-1-07-8000-400000 0001-1-07-8000-401000 0001-1-07-8000-402001 0001-1-07-8000-404000 0001-1-07-8000-406000 0001-1-07-8000-407000	Description Recording of Instruments Snowmobile Writing Fees (\$5.00)-County RVVRS Boat Titles - County Hunting & Fishing Fees-County Real Estate Transfer Tax-County Vitals Certified Copies-County ATV Writing Fees(\$5.00)-County	(\$11,038.27) Net (\$7,080.00) (\$5.00) (\$20.00) (\$5.25) (\$1,748.98) (\$288.00) (\$70.00) (\$47.50)
Total Revenue Account Number 0001-1-07-8000-400000 0001-1-07-8000-402001 0001-1-07-8000-403000 0001-1-07-8000-404000 0001-1-07-8000-406000 0001-1-07-8000-407000 0001-1-07-8000-408000	Description Recording of Instruments Snowmobile Writing Fees (\$5.00)-County RVVRS Boat Titles - County Hunting & Fishing Fees-County Real Estate Transfer Tax-County Vitals Certified Copies-County ATV Writing Fees (\$5.00)-County RVVRS Writing Fees - County	(\$11,038.27) Net (\$7,080.00) (\$5.00) (\$20.00) (\$5.25) (\$1,748.98) (\$288.00) (\$70.00) (\$47.50) (\$345.00)
Total Revenue Account Number 0001-1-07-8000-400000 0001-1-07-8000-402001 0001-1-07-8000-403000 0001-1-07-8000-404000 0001-1-07-8000-406000 0001-1-07-8000-407000 0001-1-07-8000-408000 0001-1-07-8000-410000	Description Recording of Instruments Snowmobile Writing Fees (\$5.00)-County RVVRS Boat Titles - County Hunting & Fishing Fees-County Real Estate Transfer Tax-County Vitals Certified Copies-County ATV Writing Fees (\$5.00)-County RVVRS Writing Fees - County Auditor's Transfer Fees - \$5.00	(\$11,038.27) Net (\$7,080.00) (\$5.00) (\$20.00) (\$5.25) (\$1,748.98) (\$288.00) (\$70.00) (\$47.50) (\$345.00) (\$20.00)
Total Revenue Account Number 0001-1-07-8000-400000 0001-1-07-8000-402001 0001-1-07-8000-403000 0001-1-07-8000-404000 0001-1-07-8000-404000 0001-1-07-8000-406000 0001-1-07-8000-408000 0001-1-07-8000-413001	Description Recording of Instruments Snowmobile Writing Fees (\$5.00)-County RVVRS Boat Titles - County Hunting & Fishing Fees-County Real Estate Transfer Tax-County Vitals Certified Copies-County ATV Writing Fees (\$5.00)-County RVVRS Writing Fees - County Auditor's Transfer Fees - \$5.00 Marriage License-County	(\$11,038.27) Net (\$7,080.00) (\$5.00) (\$20.00) (\$5.25) (\$1,748.98) (\$288.00) (\$70.00) (\$47.50) (\$345.00) (\$20.00) (\$215.00)
Total Revenue Account Number 0001-1-07-8000-400000 0001-1-07-8000-402001 0001-1-07-8000-403000 0001-1-07-8000-404000 0001-1-07-8000-406000 0001-1-07-8000-407000 0001-1-07-8000-408000 0001-1-07-8000-413001 0001-1-07-8000-413001 0001-1-07-8000-550000 0024-1-07-0000-414000	Description Recording of Instruments Snowmobile Writing Fees (\$5.00)-County RVVRS Boat Titles - County Hunting & Fishing Fees-County Real Estate Transfer Tax-County Vitals Certified Copies-County ATV Writing Fees(\$5.00)-County RVVRS Writing Fees - County Auditor's Transfer Fees - \$5.00 Marriage License-County Photocopy/Fax Fees	(\$11,038.27)
Total Revenue Account Number 0001-1-07-8000-400000 0001-1-07-8000-402001 0001-1-07-8000-403000 0001-1-07-8000-404000 0001-1-07-8000-404000 0001-1-07-8000-406000 0001-1-07-8000-406000 0001-1-07-8000-413001 0001-1-07-8000-413001 0001-1-07-8000-550000	Description Recording of Instruments Snowmobile Writing Fees (\$5.00)-County RVVRS Boat Titles - County Hunting & Fishing Fees-County Real Estate Transfer Tax-County Vitals Certified Copies-County ATV Writing Fees(\$5.00)-County RVVRS Writing Fees - County Auditor's Transfer Fees - \$5.00 Marriage License-County Photocopy/Fax Fees Document Management Fees	(\$11,038.27) Net (\$7,080.00) (\$5.00) (\$20.00) (\$5.25) (\$1,748.98) (\$288.00) (\$70.00) (\$47.50) (\$345.00) (\$20.00) (\$215.00) (\$305.00)

Recorder's Monthly Report to the Treasurer

04/01/2020 to 04/30/2020

Range	Account	Ne
Department of Revenue		
	0001-1-07-8000-400000-4 Local Option Tax-DOR	(\$65.50
	0001-1-07-8000-400000-3 State Sales Tax-DOR	(\$393.00
	0001-1-07-8000-400000-2 Use Tax-DOR	(\$120.00
	0001-1-07-8000-402001-2 RVVRS Boat Titles - DOR	(\$20.00
	0001-1-07-8000-404000-2 Real Estate Transfer Tax- State	(\$8,390.22)
Department of Revenue		(\$8,988.72)
Hunting and Fishing		
	0001-1-07-8000-403000 Hunting & Fishing Fees- County	(\$5.25)
	0001-1-07-8000-403000-1 Hunting & Fishing Fees- State	(\$295.50)
Hunting and Fishing		(\$300.75)
Marriage Application		
	0001-1-07-8000-413001-1 Marriage License-State	(\$155.00)
Marriage Application	0001-1-07-8000-413001 Marriage License-County	(\$20.00) (\$1 75. 00)
RVVRS County		(\$175.00)
NVVIO County	0001-1-07-8000-408000 RVVRS Writing Fees - County	(\$47.50)
	0001-1-07-8000-401000 Snowmobile Writing Fees (\$5.00)-County	(\$5.00)
	0001-1-07-8000-402001 RVVRS Boat Titles - County	(\$20.00)
	0001-1-07-8000-407000 ATV Writing Fees(\$5.00)-County	(\$70.00)
RVVRS County		(\$142.50)
RVVRS State		
	0001-1-07-8000-401001 Snowmobile Titles - State	(\$6.50)
	0001-1-07-8000-402000 RVVRS Boat Registration Fees - State	(\$259.05)
	0001-1-07-8000-402001-1 RVVRS Boat Titles - State	(\$6.00)
	0001-1-07-8000-407000-2 ATV Titles-State	(\$65.00)
	0001-1-07-8000-407000-1 ATV Registration Fees- State	(\$428.00)
	0001-1-07-8000-401000-1 Snowmobile Registration Fees-State	(\$16.50)
RVVRS State	0001-1-07-8000-407000-3 ATV Liens-State	(\$26.00)
		(\$807.05)
Transfer Tax		
	0001-1-07-8000-404000 Real Estate Transfer Tax- County	(\$1,748.98)
	0001-1-07-8000-404000-2 Real Estate Transfer Tax- State	(\$8,390.22)
Transfer Tax		(\$10,139.20)
Vitals Certified Copies		
	0001-1-07-8000-406000-1 Vitals Certified Copies- State	(\$792.00)
	0001-1-07-8000-406000 Vitals Certified Copies-County	(\$288.00)

PRIC

Iowa Department of Natural Resources

Construction Permit Application Form

Confinement Feeding Operations

INSTRUCTIONS:

THE ADDITION IS FOR.

Prior to constructing, installing, modifying or expanding a confinement feeding operation structure 1, answer questions 1-8 on Item 3, Section A (page 2), to determine if a construction permit is required. To calculate the animal unit capacity (AUC) of the operation, complete Table 1 (page 4.) If a construction permit is required, complete the rest of the form, have the applicant(s) sign it on pages 5 and 6. Mail to the DNR (see address on page 5) this application form, documents and fees requested in Checklist No. 1 or 2 (pages 10-15). See item 5 (page 5), to determine which checklist to use.

If a construction permit is not needed, some pre-construction requirements may still apply prior to the construction of a formed manure storage structure². See page 5 for additional DNR contact information.

ΙП	IS APPLICATION IS	ruk.					
1.	A new confinen	nent feeding ope	ration				
2.	An existing con	finement feeding	operation (ans	wer all of the follo	ving ques	tions):	
	a) Facility ID No. (5 digit number):	68724			_	
	b) Date when the	operation was fir	st constructed:	Jan 2015			
	c) Date when the	last construction	, expansion or r	modification was co	mpleted:	Jan 2015	
(No	ot needed if the confi	nement operatio	n has previously	y received a constru	uction per	mit from DNR.)	
	d) Is this also an o	wnership change	? Yes [☑ No If y	es box is c	hecked additional fe	es apply. See page 8
ITE	M 1 – LOCATION A	ND CONTACT II	NFORMATION	(See page 17 for ins	tructions a	nd an example):	
A)	Name of operation:	Ferris Pork					
	Location: S	SW NE	16	T88-R21		Ellis	Hardin
	()	4 1/4) (1/4)	(Section)	(Tier & Rango	e)	(Name of Township)	(County)
B)	Applicant information	on:					
٥,		is on behalf of Fe	erris Pork, LLC		Title:	Owner	
	Address: 21828 J Ave, Iowa Falls, IA 50126						
		40-0226	Fax:		Email:		
C)	Person to contact w	ith questions abo	out this applicat	ion (if different tha	ın applicaı	nt):	
	Name: Del Johnst	on, 5J Farms and	Services, LLC		Title:	Consultant	
	Address: 827 Lafa	yette Ave, Story	City, IA 50248				
	Telephone: 515-45	50-4871	Fax:		Email:	del@5jfarms.net	
\boxtimes	•	ation distances, a	-				ing operation structure ¹ and e of aerial photo on pages
	I manage or am the Please contact the D	• •				· ·	eet of the proposed site.

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¹ Confinement feeding operation structure = animal feeding operation structure (confinement building, manure storage structure or egg washwater storage structure) that is part of a confinement feeding operation. Manure storage structures include formed and unformed manure storage structures.

² Formed manure storage structure = covered or uncovered concrete or steel tanks, and concrete pits below the building.

ITE	M 2	- SITING INFORMATION:
A)	sear click the \times	the Determination: Go to DNR AFO Siting Atlas at http://programs.iowadnr.gov/maps/afo/ . Agree to the disclaimer, then the for your site by either scrolling into your location or entering an address or legal description in the bottom search bar. Left is on the location of your proposed structure. Make sure the karst layer box is checked on the map layers. If you cannot access map, or if you have questions about this issue, contact the AFO Engineer at (712) 262-4177. Check one of the following: The site is not in karst or potential karst. Print and enclose the map with the name and location of the site clearly marked. The site is in karst. The upgraded concrete standards of 567 IAC 65.15(14)"c" must be used. Refer to "Applicant's submittal checklist" on page 10 for karst documentation. The site is within 1,000 feet of a known sinkhole, Secondary Containment Barrier is required in accordance with 567 IAC 65.15(17).
В)	Che	vial Soils Determination: Go to the AFO Siting Atlas as described above. Make sure the alluvial layer box is checked on the legend. If you cannot access the map, or if you have questions about this issue, contact DNR Flood Plain at (866) 849-0321. ck one of the following: The site is not in alluvial soils. Print and enclose the map with the name and location of the site clearly marked. The site is in alluvial soils. You will need to submit a request for a flood plain determination from DNR Flood Plain (866) 849-0321. After receiving determination submit one of the following: Not in 100-year floodplain or does not require a flood plain permit. Include correspondence from the DNR Flood Plain Section. Requires flood plain permit. Include flood plain permit. Documentation has been submitted to determine site is not in alluvial soils. Refer to "Applicant's Submittal Checklist" on page 10 for alluvial soils documentation.
		- OPERATION INFORMATION:
A)	A CO	Instruction permit is required prior to any of the following:
	 3. 4. 	□ Constructing or modifying any unformed manure storage structure³, or constructing or modifying a confinement building that uses an unformed manure storage structure³. □ Constructing, installing or modifying a confinement building or a formed manure storage structure² at a confinement feeding operation if, after construction, installation or expansion, the AUC of the operation is 1,000 animal units (AU) or more. This also applies to confinement feeding operations that store manure exclusively in a dry form. □ Initiating a change that would result in an increase in the volume of manure or a modification in the manner in which manure is stored in any unformed manure storage structure³, even if no construction or physical alteration is necessary. Increases in the volume of manure due to an increase in animal capacity, animal weight capacity or AUC up to the limits specified in a previously issued construction permit do not require a new construction permit. □ Initiating a change, even if no construction or physical alteration is necessary, that would result in an increase in the volume of manure or a modification in the manner in which manure is stored in a formed manure storage structure² if, after the change, the AUC of the operation is 1,000 AU or more. Increases in the volume of manure due to an increase in animal capacity, animal weight capacity or AUC up to the limits specified in a previously issued construction permit do not require a new construction permit.
	5.	Constructing or modifying any egg washwater storage structure or a confinement building at a confinement feeding
	_	operation that includes an egg washwater storage structure.
		Initiating a change that would result in an increase in the volume of egg washwater or a modification in the manner in which egg washwater is stored, even if no construction or physical alteration is necessary. Increases in the volume of egg washwater due to an increase in animal capacity, animal weight capacity or AUC up to the limits specified in a previously issued construction permit do not require a new construction permit.
	7.	 Repopulating a confinement feeding operation if it was closed for 24 months or more and if any of the following apply: The confinement feeding operation uses an unformed manure storage structure³ or egg washwater storage structure; The confinement feeding operation includes only confinement buildings and formed manure storage structures² and
		has an AUC of 1,000 AU or more.
	8.	Installing a permanent manure transfer piping system, unless the department determines that a construction permit is not required.

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³ Unformed manure storage structure = covered or uncovered anaerobic lagoon, earthen manure storage basin, aerobic earthen structure.

B)	In your own words, describe in detail, the proposed construction, expansion, installation, modification or repair being proposed in this project.(Must be completed) Attach additional pages if necessary:
One	additional swine finishing barn, with dimensions of 101' 2" x 193' with 8' deep, under-building formed concrete
mar	nure storage pit, is proposed to be built 100' north of the current barn of identical dimensions.
No v	water lines will enter through the concrete manure storage walls and all pit fans will be mounted on pump outs.
C)	Master Matrix (must check one). If any of boxes 1 to 3 are checked, the operation is required to be evaluated with the master matrix if the county, where the confinement feeding operation structure ¹ is or would be located, has adopted a 'Construction Evaluation Resolution' (CER). Select the one that best describes your confinement feeding operation:
	 A new confinement feeding operation proposed in a county that has adopted a CER. An existing operation constructed on or after April 1, 2002, in a county that has adopted a CER. An existing operation constructed prior to April 1, 2002, with a current or proposed AUC of 1,667 AU or more, in a county that has adopted a CER. None of the above. Therefore, the master matrix evaluation is not required.
D)	Qualified Operation (must check one). If any of boxes 1 to 4 are checked, the operation is also a 'qualified operation'. A qualified operation is required to use a manure storage structure that employs bacterial action which is maintained by the utilization of air or oxygen, and which shall include aeration equipment. However, this requirement does not apply if box 5 is checked. Select the one that best describes your confinement feeding operation:
	 A swine farrowing and gestating operation with an AUC of 2,500 AU or more. If the replacement breeding swine are raised and used at the operation, the animal units for those replacement animals do not count in the operations total AUC. A swine farrow-to-finish operation with an AUC of 5,400 AU or more. A cattle confinement feeding operation (including dairies) with an AUC of 8,500 AU or more. Other confinement feeding operations with an AUC of 5,333 AU or more. This is not a qualified operation because: X It is below the limits shown on boxes 1 to 4. It includes a confinement feeding operation structure¹ constructed prior to May 31, 1995.
	c. It handles manure exclusively in a dry form (poultry).

ITEM 4 – ANIMAL UNIT CAPACITY (AUC) and, if applicable, ANIMAL WEIGHT CAPACITY (AWC):

A) Calculating AUC - Required for all operations

For each animal species, multiply the maximum number of animals that you would ever confine at one time by the appropriate factor, then add all AU together on Table 1 (page 4). Use the maximum market weight for the appropriate animal species to select the AU factor.

You must complete all applicable columns in Table 1. Use column a) to calculate the existing AUC, before permit for existing operations only. Use column b) to calculate the 'Total proposed AUC' (after a permit is issued) including new operations. The number obtained in column b) is the AUC of the operation and must be used to determine permit requirements. Use column c) to calculate the 'New AU' to be added to an existing operation. To calculate the indemnity fee (see page 7), also use column c), however, if the "Existing AUC" (column a) is 500 AU or less, enter the "Total proposed AUC" (column b) in the "New AU" (column c).

In calculating the AUC of a confinement feeding operation, you must include the AUC of all confinement buildings which are part of the confinement feeding operation, unless a confinement building has been abandoned. A confinement feeding operation structure¹ is abandoned if the confinement feeding operation structure¹ has been razed, removed from the site of a confinement feeding operation, filled in with earth, or converted to uses other than a confinement feeding operation structure¹ so that it cannot be used as a confinement feeding operation structure¹ without significant reconstruction. Therefore, in Table 1, enter the animal unit capacity of all the confinement buildings, including those that are from an "adjacent" operation located within 2,500 feet. For more information, contact the AFO Program at (712) 262-4177.

Table 1. Animal Unit Capacity (AUC):

(No. HEAD) x (FACTOR) = AUC

Animal Species		Existing AUC efore permit)		b) Total Proposed AUC (After permit)			
	(No. Head)	x (Factor)	= AUC	(No. Head)	x (Factor)	= AUC	
Slaughter or feeder cattle		1.0			1.0		
Immature dairy cattle		1.0			1.0		
Mature dairy cattle		1.4			1.4		
Gestating sows		0.4			0.4		
Farrowing sows & litter		0.4			0.4		Note: If the "Existing AUC"
Boars		0.4			0.4		(column a) is 500 AU or less,
Gilts		0.4			0.4		enter the "Total proposed
Finished (Market) hogs	2496	0.4	998	4992	0.4	1996	AUC" (column b) in the "New
Nursery pigs 15 lbs to 55 lbs		0.1			0.1		AU" (column c)
Sheep and lambs		0.1			0.1		
Horses		2.0			2.0		
Turkeys 7 lbs or more		0.018			0.018		
Turkeys less than 7 lbs		0.0085			0.0085		
Broiler/Layer chickens 3 lbs or more		0.01			0.01		
Broiler/Layer chickens less than 3 lbs		0.0025			0.0025		c) New AU = b) - a):
Fish		0.001			0.001		d)
TOTALS:	a) I	Existing AUC:	998	b) Total pr	oposed AUC:	1996	998

(This is the AUC of the operation)

B) Calculating AWC - Only for operations first constructed prior to March 1, 2003

The AWC is needed for an operation that was first constructed prior to March 1, 2003, to determine some of the minimum separation distance requirements for construction or expansion.

The AWC is the product of multiplying the maximum number of animals that you would ever confine at any one time by their average weight (lbs) during the production cycle. Then add the AWC if more than one animal species is present (examples on how to determine the AWC are provided in 567 IAC 65.1(455B).)

If the operation was first constructed prior to March 1, 2003, you must complete all applicable columns in Table 2:

Table 2. Animal Weight Capacity (AWC): (No. head) * (Avg. weight, lbs) = AWC, lbs

Table 2. Allilla Weight Capacity ((140. IICaa)	1,,,,,	cigiit, ibs j - r		
		Existing AWC		b) F	roposed AW(2
Animal Species	(Be	efore Permit)		(After permit)		
	(No. head) x	avg weight	= AWC	(No. head) x	avg weight	= AWC
Slaughter or feeder cattle						
Immature dairy cattle						
Mature dairy cattle						
Gestating sows						
Farrowing sows & litter						
Boars						
Gilts						
Finished (Market) hogs						
Nursery pigs 15 lbs to 55 lbs						
Sheep and lambs						
Horses						
Turkeys 7lbs or more						
Turkeys less than 7 lbs						
Broiler/Layer chickens 3 lbs or more						
Broiler/Layer chickens less than 3 lbs						
Fish						
TOTALS:	a) Existing A\	NC:		b) Total prop	osed AWC:	

(This is the AUC of the operation)

on the type of confinement feeding operation structure ¹ and AUC proposed. To determine w	hich che	cklist to use, choose the option
that best describes your confinement feeding operation:	1	1
A) Formed manure storage structures ² : The proposed confinement feeding operation so manure storage structure ² . Check one of the following boxes:	tructure [*]	will be or will use a formed
1. A swine farrowing and gestating operation with an AUC of 1,250 AU or more. Using the storage structure is check one of the following boxes.	a Suhmit	tal Checklist No. 2 (nage 13)
2. A swine farrowing and gestating operation with an AUC of 2,750 AU or more. Use Submit		
3. A cattle confinement feeding operation (including dairies) with an AUC of 4,000 p.		• ,
2 (page 13).	40 01 1110	ore. Ose Submittal Checklist No.
4. Other confinement feeding operations with an AUC of 3,000 AU or more. Use Su	bmittal (Checklist No. 2 (page 13).
5. None of the above. Use Submittal Checklist No. 1 (page 10).		W G /
If any of boxes 1 to 4 are checked, the operation meets the threshold requirements for an en	gineer ⁴ a	and a Professional Engineer (PE),
licensed in Iowa, is required. For these cases, use Submittal Checklist No. 2 (page 13).		<i>5</i> , <i>n</i>
If you checked box 5, your operation is below threshold requirements for an engineer ⁴ and a	Profession	onal Engineer (PE) is not
required. Use Submittal Checklist No. 1 (page 10).		
B) Unformed manure storage structure ³ : The proposed confinement feeding operation	structur	e ¹ will he or will use an
unformed manure storage structure ³ or an egg washwater storage structure. A Professio		
design and sign the engineering documents for any size of operation. Use Submittal Chec	_	• •
(page 16).	J. 110.	2 (page 13) and madenaum 7.
ITEM 6 – SIGNATURE:		
I hereby certify that the information contained in this application is complete and accurate.		
$\mathcal{R} \setminus \mathcal{R} \subset \mathcal{R}$		26-March-2020
Signature of Applicant(s):	Date:	
MAILING INSTRUCTIONS:		
To expedite the application process, follow the submittal requirements explained in Checklist	No. 1 or	² (pages 10 to 16), whichever
applies. Page 1 of this form should be the first page of the package. Mail all documents and for	ees to:	
Iowa DNR		
AFO Program		
1900 N Grand Ave		
Gateway North, Ste E17		
Spencer, IA 51301		
(Note: Incomplete applications will be returned to the sender.)		

ITEM 5 – SUBMITTAL REQUIREMENTS Checklists No. 1 or 2 (pages 10-15) describe the submittal requirements, which are based

Questions

Questions about construction permit requirements or regarding this form should be directed to an engineer of the animal feeding operations (AFO) Program at (712) 262-4177 To contact the appropriate DNR Field Office, go to http://www.iowadnr.gov/fieldoffice.

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⁴ Threshold requirements for an engineer apply to the construction of a formed manure storage structure². Operations that meet or exceed the threshold requirements for an engineer are required to submit engineering documents signed by a professional engineer licensed in the state of lowa. Please refer to Checklist No. 2 (pages 13-15).

Interested Parties Form Confinement Feeding Operation

Interest means ownership of a confinement feeding operation as a sole proprietor or a 10 percent or more ownership interest held by a person in a confinement feeding operation as a joint tenant, tenant in common, shareholder, partner, member, beneficiary or other equity interest holder. Ownership interest is an interest when it is held either directly or indirectly through a spouse or dependent child, or both.

INSTRUCTIONS:

Please list all persons (including corporations, partnerships, etc.) who have an interest in any part of the confinement feeding operation covered by this permit application.

Full Name	Address	Cit	ty/State	Zip
Brock Ferris	21828 J Ave	lov	va Falls, IA	50126
Ben Ferris	19706 JJ Ave	lov	va Falls, IA	50126
	elow all other confinement feeding operations in low other confinement feeding operations in lowa in wh			
Operation Name	Location (¼ ¼, ¼, Section, Tier, Range, Townshi	p, County)		City
X None [There are no other conf	inements in Iowa in which the above listed person(s)	has or have a	n interest].	
I hereby certify that the information	on provided on this form is complete and accurate.			
Signature of Applicant(s):	with terms	Date:	26-March-20	20

Manure Storage Indemnity Fee Form for Construction Permits

CASHIER'S USE ONLY 0474-542-474A-0431 Facility ID # County

Credit fees to: F		is Pork, LLC		
Name of operat	tion:	Ferris Pork		

INSTRUCTIONS:

- 1) Use the 'Total Proposed AUC' from column b), Table 1 (page 4), to select the appropriate fee line in the table below. The 'Total Proposed AUC' is the AUC of the operation.
- 2) Select the animal specie and row number (see examples). Enter the 'New AU' from column c), Table 1 (page 4). The 'New AU' is the number of AU to be added to an existing operation or being proposed with a new operation. **Note**: If the "Existing AUC" (column a) is 500 AU or less, enter the "Total proposed AUC" (column b) in "New AU" (column c).
- 3) Multiply the 'New AU' by the appropriate 'Fee per AU'. The resulting number is the indemnity fee due.
 - Example 1: An existing swine operation is expanding from an 'Existing AUC' of 1,000 AU to a 'Total Proposed AUC' of 1,800 AU, and has previously paid an indemnity fee for the existing 1,000 AU. Calculate the indemnity fee as follows: The 'Total Proposed AUC' is between 1,000 AU and 3,000 AU; the animal specie is other than poultry; enter 800 AU in the 'New AU' column, row 4, and multiply it by \$ 0.15:

$$(800 \text{ AU}) \times (\$ 0.15 \text{ per AU}) = \$ 120.00$$

• Example 2: An existing poultry operation is expanding from an 'Existing AUC' of 250 AU to a 'Total Proposed AUC' of 2,000 AU and has not paid the indemnity fee for animals housed in the existing buildings. Calculate the indemnity fee as follows: The 'Total Proposed AUC' is between 1,000 AU and 3,000 AU; the animal specie is poultry and the indemnity fee has not previously been paid, enter 2,000 AU in the 'New AU' column on row 3, and multiply it by \$0.06:

$$(2,000 \text{ AU}) \times (\$ 0.06 \text{ per AU}) = \$ 120.00$$

• Example 3: If you are proposing a new swine confinement feeding operation with a 'Total Proposed AUC' of 3,500 AU, enter 3,500 AU in the 'New AU' column, row 6 and multiply it by \$ 0.20:

• Example 4: If you are applying for a construction permit but you are not increasing the AUC of the operation, and has previously paid the applicable indemnity for the animals housed in the existing buildings, there is no indemnity fee due (\$ 0.00). If no indemnity fee is due, do not submit this page.

Indemnity Fee Table:

Total Proposed AUC (After Permit (from column B, Table 1)	Row	Animal species	New AU (from column C Table 1)	х	Fee per AU	Indemnity Fee
Loss than 1 000 ALL	1	Poultry		Х	\$ 0.04 =	
Less than 1,000 AU	2	Other		Х	\$ 0.10 =	
1 000 All or more to less than 2 000 All	3	Poultry		Х	\$ 0.06 =	
1,000 AU or more to less than 3,000 AU	4	Other	996	Х	\$ 0.15 =	\$149.40
2 000 All or more	5	Poultry		х	\$ 0.08 =	
3,000 AU or more	6	Other		х	\$ 0.20 =	

Filing Fees Form for Construction Permits

CASHIER'S USE ONLY

0473-542-473A-0431 0474-542-474A-0431 Facility ID # County

Cre	dit fees to: Fer	ris Pork, LLC			
Nar	ne of operation:	Ferris Pork			
INS	TRUCTIONS:				
1.	★ Construction	is applying for a construon application fee \$250.0 fee is non-refundable)	action permit enclose a payment for the following: 00.		
2.	Manure ma (Note: This	anagement plan filing fee fee is non-refundable)			
3.	on page 7.	ge in ownership then ind	emnity fees must also be paid on the current (existing) total AUC at	the a	ppropriate rate
	Indemnity	fee due to ownership cha	ange \$		
4.	Total filing fees:	Add the fees paid in iter	ms 1, 2 and 3 (above): \$ \$500.00		
			SUMMARY:		
			- Manure Storage Indemnity Fee (see previous page) to be deposited in the Manure Storage Indemnity Fee Fund (474)	\$	149.40
			- Total filing fees (see item 4 on this page) to be deposited in the Animal Agriculture Compliance Fund (473)	\$	500.00
			TOTAL DUE:	\$	649.40

Make check payable to: Iowa Department of Natural Resources or Iowa DNR; and send it along with the construction application documents (See Submittal Checklist No. 1 or 2, pages 10-15.) Note: Do not send this fee to the county.

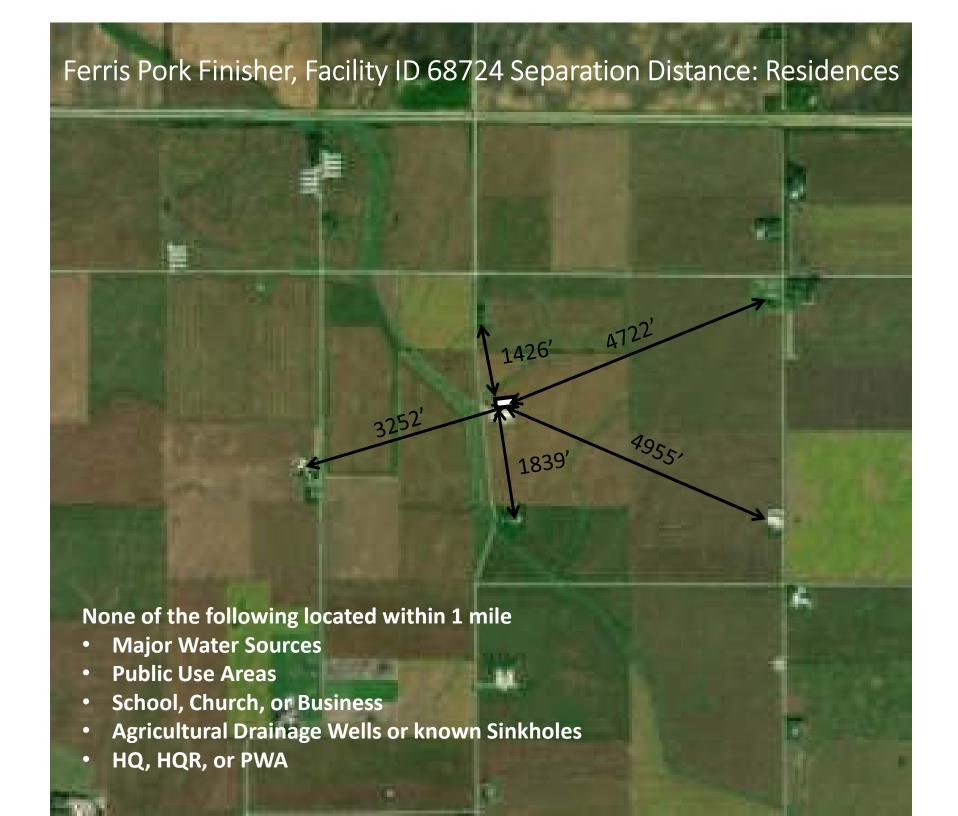
COUNTY VERIFICATION RECEIPT OF DNR CONSTRUCTION PERMIT APPLICATION

This form provides proof that the County Board of Supervisors has been provided with a complete copy of the construction permit application documents (everything except the fees) for the confinement feeding operation or a complete MMP has been provided to the County because manure will be applied in that county:

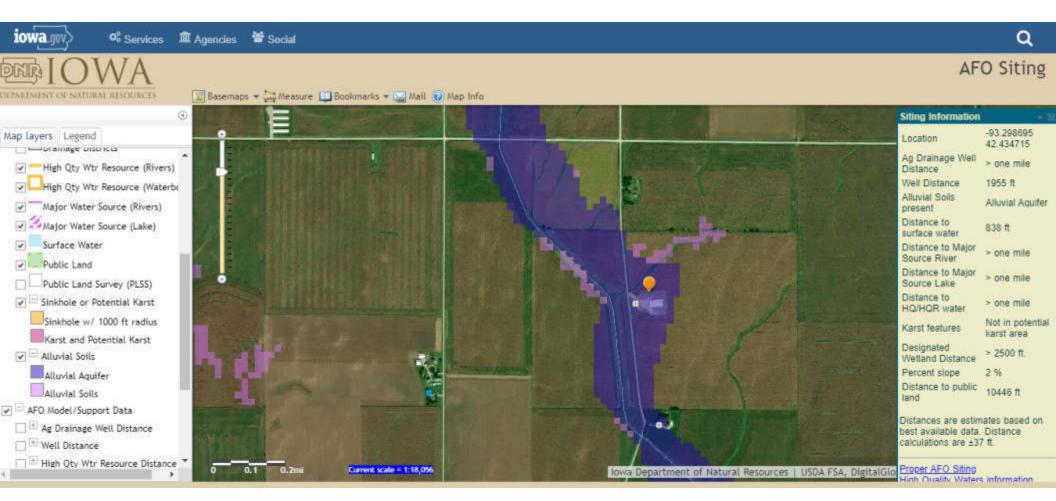
Applicant: Brock F	erris on beha	If of Ferris Po	ork, LLC		Telephone: 641	-640-0226
Name of operation:	Ferris Pork					
Location:	SW	NE	16	T88-R21	Ellis	Hardin
	(1/4 1/4)	(1/4)	(Section)	(Tier & Range)	(Name of Township)	(County)
Attachment 1 - all the separation Attachment 2 - Construction Professiona Engineering In addition documenta Attachment 3 -	ermit applicate Aerial photoson distances a Statement of the Design State I Engineer (Pag report, contact if proposing ation required Manure man	tion form: su s: Must clear are met, inclu design certi tement form E) Design Ce struction pla an unformed in Addemdo agement pla	ly show the locuding those cla fication, submi rtification form ns and technica d manure stora um "A" of this on.	imed for points in the tany of the following all specifications age structure or an econstruction applications	ed confinement feeding ope te master matrix (if applicab g (see Checklist No. 1 or 2): egg washwater storage struc	ole). Cture submit
Attacriment 4 -	iviastei iviati	ix (ii required	a). You must me	Liude supporting do	cuments (see checklist No.	1 01 2)
		THIS	SECTION IS I	RESERVED FOR T	HE COUNTY	
explaining what acti Public Notice is requ	ons your Cou uired for <u>all</u> co	inty Board of	Supervisors m	ust complete and th	e applications not required t	
Counties participation	ng in the mas	ter matrix: tl	he county's ma	ster matrix evaluatio	on and county's recommend	dation is required for the
 A new confinen 				or a construction per t constructed on or a	rmit after April 1, 2002 that is ap	plying for a construction
_				t constructed prior t al units (AU) or more	o April 1, 2002 that is apply e.	ing for a construction
have read and ackr Code 459.304. On b				nstruction permit ap	plication, as specified in 567	7 IAC 65.10 and Iowa
COUNTY:						
TITLE:						
(Member	of the Count	y Board of Su	upervisors or it	s designated official,	/employee)	
Date:		, 20	_			
If you do not receive		y reminder le	etter within a re	easonable time, or if	you have any questions, plo	ease contact the animal





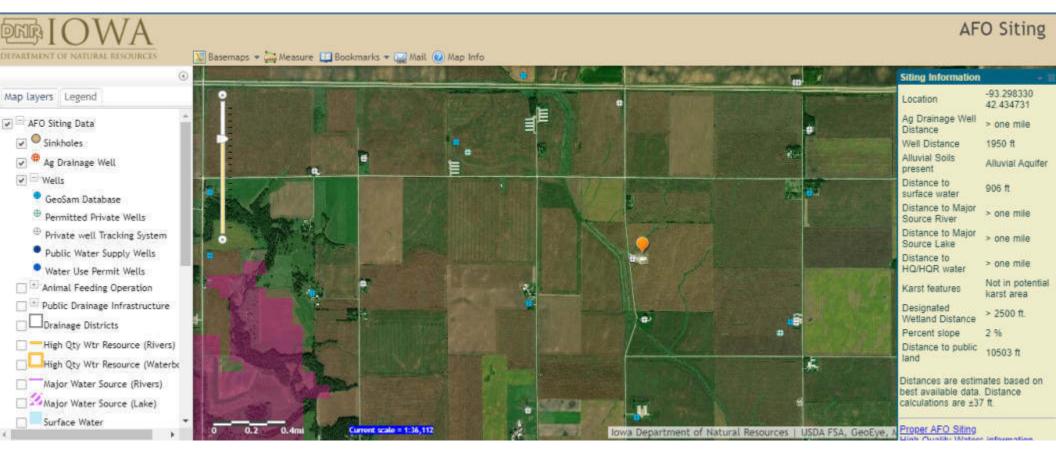


Ferris Pork Finisher, Facility ID 68724 Karst and Alluvial* Determination



*See enclosed supporting DNR documentation regarding Alluvial determination

Ferris Pork Finisher, Facility ID 68724 Sinkholes, Ag Drainage Wells, Etc









IOWA DEPARTMENT OF NATURAL RESOURCES

TO SATISFY THE PETITION OF:

Jon Hager; Pinnacle for Proposed Ferris Pork Facility

HARDIN COUNTY, IOWA

LOCATION OF A PROPOSED CONFINEMENT FEEDING OPERATION STRUCTURE WITH RESPECT TO THE "ONE HUNDRED YEAR FLOOD PLAIN" DECLARATORY ORDER Number CI 2015-42-DO01

FACTS AND RELEVANT LAW

The Department has received a Petition for Declaratory Order from Jon Hager (Petitioner), concerning the Proposed Ferris Pork Facility in the SW¼ of the NE¼ of Section 16, T88N, R21W; Hardin County, Iowa. A 2496 head (998.4 AU) swine confinement feeding operation structure as proposed by the Petitioner is to be located on land that contains a soil type classified as alluvial. The Petition requests the Department to determine whether the above site is located on a "one hundred year flood plain" according to 567 Iowa Administrative Code (IAC) 65.7(9). The "one hundred year flood plain", as defined in 567 IAC 65.1, is the land adjacent to a "major water source" that has at least a one percent chance of being inundated in any one year.

ORDER

According to 567 IAC Chapter 65, Table 1, the stream of concern is not a "major water source". Therefore, pursuant to 567 IAC 65.7(9), the Department has determined that the proposed confinement feeding operation structure is not located on a "one hundred year flood plain". The issuance of this declaratory order constitutes final agency action on the petition and is effective on the date of issuance.

For the Director of the Iowa Departmen	nt of Natural Resources:	
My XIIIII	Issuance Date: 12 - 14	, 2015.
Jeff Simmons	Management and Dam Safety Section	

CERTIFICATION OF MAILING

I hereby certify that I have this 15th day of	December	, 2015 mailed Declaratory Order
Number CI 2015-42-DO01 to the Petitioner.		
	ВуС	0



Del Johnston <greenlantern.1967@gmail.com>

Alluvial Floodplain permit

3 messages

Del Johnston <del@5jfarms.net>

Thu, Mar 19, 2020 at 4:18 PM

To: "Petitti, Paul" <paul.petitti@dnr.iowa.gov>

Paul, I've been trying to reach the DNR floodplain dept in DSM but not having luck. Assuming everyone is working remote.

I'm working on an expansion for Ferris Pork, Facility ID 68724. They'll be adding a barn, doubling AU from 996 to 1,992.

The site is in alluvial floodplain area. When the current barn was originally constructed the attached permit was issued. I would assume that the designation hasn't changed in 5 years and that I will be able to submit the attached as a valid permit with the CDS, Construction Permit, MM, and etc.

Thanks

Del Johnston

515-450-4871 www.SmartNPK.com

5J Farms and Services, LLC



827 Lafayette Ave

Story City, IA 50248



Ferris 68724 Alluvial Floodplain Approved 2015 petition.pdf

1124K

Petitti, Paul <paul.petitti@dnr.iowa.gov> To: Del Johnston <del@5jfarms.net>

Thu, Mar 19, 2020 at 4:31 PM

Del, the first barn is not on a floodplain of a Major water source and if the second barn is within 100' or so of the first then it also would not be in the flood plain of a major water source. When you submit the application put a note or email with it that the second barn will be within so many feet of the first and at the same slat elevation as the first barn. That will be sufficient to not require another determination



Paul Petitti P.E. | Environmental Engineer Senior Iowa Department of Natural Resources P 712-262-4177 | 1900 Grand Ave., Spencer, IA 51301 www.iowadnr.gov

[Quoted text hidden]

Del Johnston <del@5jfarms.net>

Thu, Mar 19, 2020 at 4:56 PM

To: "Petitti, Paul" <paul.petitti@dnr.iowa.gov>

Sounds good. New barn will be same level and 80' from current. Thanks

[Quoted text hidden]

Del Johnston 515-450-4871

Instrument M: 20200899 Year: 2020 Number: 0699 03/26/2020 10:52:43 AM Pages: 1 Recording Fee: 5 7.00 Lori Kadner, Recorder, Hardin County IA

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Commission Number 774390 My Commission Expires

Prepared by: Del Johnston, 827 Latayette Ave, Story City, IA, 50248, 515-450-4871. Return to: Del Johnston, 827 Lafayotto Avo, Story City, IA, 50248

Printed Name: Del Johnston

My Commission Expires: 17-August-2021

Walver of Separation Distance ____ (Grantor) resides at: 18134 JJ Ave, Iowa City, IA, 50126 (Property #1), Ferris Pork, LLC − Brock Ferris. (Grantes) is planning to add a been to the existing fivestock confinement facility with formed manure storage, a capacity of 1,992 animal units, and legal description of: Part of SW K of NE K Sec 16 T88N-R21W, Ellis Township, Hardin County, Iowa (Property 92), Pursuant to Iowa Code §459.202(1), a separation distance of /875 feet is required between Property #1 and Property #2. Pursuant to lowa Code \$459.705(7), I, the undersigned Grantos, hereby waive the enforcement of this separation distance requirement. This waiver shall apply only to the proporties and facilities described in this agreement, shall be peopetual and shall run with the land. Granted this 21 day of March, 2020 Grantor. Prented Name: Steve Oberender Printed Name: Brook Forris_ State of <u>lowa,</u> County of <u>Hardin</u> On this 21 day of ر <u>202 و کا 20 با D</u> , belore me, a Notary Public, personally appeared S<u>teve Oberender</u> to me known to be the person named in and who executed the foregoing instrument, and acknowledged that they executed the same as their voluntary act and deed-Notary Public Signature: DEL JOHNSTON Printed Rame: Del Johnston Commission Number 774390 My Commission Expires My Curantissian Expires: 17-August-202 State of Iowa, County of Hardin , 202 0 , before me, a Notary Public, personally appeared Brock Ferris. to me known to be the person named in and who executed the foregoing instrument, and advisovled-66 that they executed the same as their voluntary ask and deed. Notary Public Signature: **DEL JOHNSTON**

Instrument M: 20200696 Year: 2020 Number: 0698 03/26/2020 10:52:43 AN Pages: 1 Recording Fee: \$ 7.00 Loni Kadner, Recorder, Mardin County IA

國門 似乎是我没有自己不是不是不是不是不是不是不是不是

Prepared by: Del Johnston, 827 Lafayette Ave, Story City, IA, 50248, 515-450-4871 Return to: Del Johnston, 827 Lafayette Ave, Story City, IA, 50248

Walver of Separation Distance
Michael CarponLog (Granto) resides at: 18798 JJ Ave, Jowa City, IA, 50126 (Proporty#1). Ferris Pork, LLC - Brock Ferris
Grantee) is planning to add a barn to the existing livesteck confinement facility with formed manure storage, a capacity of 1,992 animal units, and legal
description of: Part of SW 16 of NE 16 Sec 16 T88N-R21W, Ellis Township, Hardin County, Jowa (Property #2), Pursuant to Iowa Code
5459.202(1), a separation distance of 1675; feet is required between Property 41 and Property 42. Pursuant to Jowa Code 5455-765(2), 1, the
undersigned Grantur, hereby weave the enforcement of this separation distance requirement. This waker shall apply only to the properties and facilities
described in this agreement, shall be perpetual and shall run with the land.
Granted this <u>21</u> day of <u>March, 2020</u>
Granter, Tolking Tolking
Signed: Signed:
n to the Ballishand Community of the State o
Printed Name: Michael Carpenter Printed Name: Brock Ferris
State of <u>Fowa</u> , County of <u>Hardin</u>
On this 21 day of March , 2020, before me, a Notary Public, personally appeared [Alichael Carpenter]
to me knowledged that they executed the same as their voluntary act and deed.
mel energies the source sources of account of the
Notary Public Signstore:
Site Commission Number 774390
My Commission Expires
My Commission Expires: 17:August-2021
State of <u>lowa,</u> County of Hardin
On this 21 day of Marth2020, before mc, a Notary Public, personally appeared <u>Brock Ferris</u>
, to me known to be the person named in and who executed the foregoing instrument, and acknowledged that
they executed the same as their voluntary act and deed.
Notary Public Signature: DO V De Marian
Printed Namer Del Johnston Rumber 774390
My Commission Expires: 17-August-2021 My Commission Expires:



Construction Design Statement (CDS)

Instructions:

- 1. This form is for new or expanding confinement feeding operations with an AUC¹ of more than 500 AU, not required to have a professional engineer (PE)², that are proposing to construct a formed manure storage structure³.
- 2. Complete and submit Sections 1, 2 and 3 (pages 1 to 6).
- 3. Complete and submit Section 4 (page 6) only if you are applying for a construction permit and are constructing three or more confinement feeding operation structures⁴.
- 4. Mail only pages 1 to 6, as instructed on page 6 and 7. Do not mail the remainder of this form.
- 5. If the site-specific design is sealed by a PE², do not use this CDS instead use DNR Form 542-8122.

Section 1 - Information about the proposed formed manure storage structure³(s)

A) Information about the operation:

Nam	e of operation:	Ferris Po	rk				Facility	ID No.:	68724
Location:		SW	NE	16	T88-R21	Ellis		Hardin	
		(1/4 1/4)	(1/4)	(Section)	(Tier & Range)	(Name of To	wnship)	(County)
·	B) Description of the proposed formed manure storage structure ³ . Include dimensions (length, width, or diameter, depth). Indicate if it is aboveground or belowground; covered or uncovered, made of concrete or steel, address location of pit fans, if applicable, and address water line entry into buildings. If necessary attach more pages:								
One	One 101' 2" x 193' x 8' deep, below ground, covered, formed concrete manure storage tank will be constructed.								
No w	No water lines will enter through the concrete manure storage walls and all pit fans will be mounted								
on p	ump outs.								

C) Utilizing Rural Water System for Water Supply

- The proposed facility will utilize rural water and the providing rural water system has been notified and is aware of the proposed increase in water use.
- D) Aerial photos: Aerial photos must be submitted that clearly show the location of all existing and proposed confinement feeding operation structures and show at least a one-mile radius around the structures. The photos must either show roads on the north and south or east and west sides of a section (so that a mile distance is apparent), or include a distance scale.

The photo(s) must show that the proposed structures comply with all statutory minimum required separation distances to the objects listed below:

- Residences (not owned by the permit applicant), churches, businesses, schools, public use areas
- Water wells (depends on type)
- Major water sources, wellhead or cistern of an agricultural drainage well or known sinkholes
- · Water sources (other than major water sources) and surface intakes of an agricultural drainage well
- Designated wetlands
- Road right-of-way

The separation distance to each of the above objects must be noted with a straight line between the proposed structure(s) and the object. If any of the above objects is not located within one mile from the proposed structures, note the fact on the photo(s) or use additional pages. (Example: "No agricultural drainage wells within one mile.")

All separation distances that are not clearly in excess of the required minimum separation distance must be measured according to 567 IAC 65.11(9) using standard survey methods. Go to the DNR fact sheet page at http://www.iowadnr.gov/Environmental-Protection/Land-Quality/Animal-Feeding-Operations/AFO-Resources/AFO-Factsheets and select DNR fact sheet "Distance Requirements for Construction" to find the required separation distances. Or, go directly to: http://www.iowadnr.gov/Portals/idnr/uploads/forms/5421420.pdf. An example aerial photo can be found on pages 18 to 19 of the

http://www.iowadnr.gov/Portals/idnr/uploads/afo/fs_iemap.pdf.

AFO Construction Permit Application (DNR Form 542-1428). Or, go directly to:

04/2018 cmc 1 DNR Form 542-8068

¹ To determine the AUC see the 'Manure Storage Indemnity Fee' (Form 542-4021) or the 'Construction Permit Application' (Form 542-1428), or visit http://www.iowadnr.gov

² PE is a professional engineer licensed in the state of Iowa or a NRCS-Engineer working for the USDA-Natural Resources Conservation Service (NRCS).

³ Formed manure storage structure means a covered or uncovered concrete or steel tank, including concrete pits below the floor.

⁴ Confinement feeding operation structure = A confinement building, a formed or unformed manure storage structure, or an egg washwater storage structure.

Note: If a master matrix is required, the photos must also show that the additional separation distances required for any points claimed in matrix criteria one through ten will be met for the objects listed above. Note the additional separation distance by drawing a straight line between the proposed structures and the matrix item. Karst Determination: Go to DNR AFO Siting Atlas at http://programs.iowadnr.gov/maps/afo/. Search for your site by either scrolling into your location or entering an address or legal description in the bottom search bar. Left click on the location of your proposed structure. Make sure the karst layer box is checked on the map layers. If you cannot access the map, or if you have questions about this issue, contact the AFO Engineer at 712-262-4177. Check one of the following: The site is not in karst or potential karst. Print and enclose the map with the name and location of the site clearly marked. The Siting Atlas has indicated that the site is in karst. The upgraded concrete standards of 567 IAC 65.15(14)"c" must be used. Complete and sign Section 3.H (page 5). Alluvial Soils Determination: Go to the AFO Siting Atlas as described above. Make sure the alluvial box is checked on the map layers. If you cannot access the map, or if you have questions about this issue, contact DNR Flood Plain at 866-849-0321. Check one of the following: The site is not in alluvial soils. Print and enclose the map with the name and location of the site clearly marked. If the site is in alluvial soils contact DNR Flood Plain at 866-849-0321. You will be required to submit a petition for a declaratory order if less than 1000 AU or request a flood plain determination if 1000 AU or greater. After receiving Flood Plain determination, submit one of the following: Include correspondence from the DNR showing the site is not in 100-year flood plain or does not require a Flood Plain permit. Include copy of the Flood Plain permit if a Flood Plain permit is required. **Section 2 - Manure management plan:** An original manure management plan (MMP) is enclosed with this form, even if a MMP was previously filed. Brock Ferris on behalf of Ferris Pork, LLC Owner's Name (print) Section 3 - Construction design standards: The person responsible for constructing the formed manure storage structure(s)³ must complete Section 3. A) Liquid and semi-liquid manure: The proposed formed manure storage structure³ will be (check one): A.1 A non-circular concrete tank, belowground, with walls laterally braced or below the building concrete pit designed according to 567 IAC Chapter 65, Appendix D. A.2 A non-circular concrete tank, belowground, walls designed according to MidWest Plan Service (MWPS), publication MWPS-36. Include design calculations. A.3 A circular concrete tank, walls designed according to MidWest Plan Service (MWPS), publication MWPS TR-9. Include design calculations. Will be made of steel, constructed aboveground according to the manufacturer's recommendations. B) Dry manure: The proposed formed manure storage structure³ will be (check one): An aboveground concrete tank, with walls designed according to MWPS-36. Include design calculations. B.2 Will be made of steel, constructed aboveground according to the manufacturer's recommendations. Will be a belowground or partially belowground concrete tank, with walls laterally braced designed according to 567 IAC Chapter 65, Appendix D or MWPS-36. Include design calculations. Details of the proposed design: Submit an additional completed copy of this page 3 for each formed manure storage structure³ that have different dimensions. Complete all of the following information: Number of buildings: one Building name: swine finisher

Dimensions of proposed formed manure storage structure³

Dillielision	intensions of proposed formed mandre storage structure									
	Length	Width	Height or depth	Wall thickness	Diameter (circular tanks only)					
Feet	193	101	8							
Inches		2	0	8						

(less to see proposition (see proposition state) b. We Toplasti perce	than 50 percent fines), or page 9 for the unified so osed location of the forment signed by a qualificables D-3 and D-4 (on pocity silts and clays with int fines); or low to medicables because with the silts and clays with silts and	with coarse sand with silt bils classification). You wil med manure storage stru ed organization or NRCS ages 8-9) if backfilling of some sand or gravel (50 p lium plasticity silts and cl page 9 for unified soils cla	or clay (less than 50 per I need to submit a copy of ctures ³ clearly marked sh staff. walls will be performed walls will be performed walls will be performed by the percent or more fines); of ays with little sand or gra	d with gravel, sand, silt, and cent fines), or cleaner grant of a USDA soil survey map we owing the unified soil class with soils that are unknown r fine sands with silt or clay vel (50 percent or more fine Tables D-3 and D-4 if you	ular material with the dification; or a difference of the or or with low full (less than 50 es); or high
Maximum spacin	g of steel, in inches		[d 1	T
	F	Proposed vertical steel in	walls [see boxes "a" and "b", a		
Description of reinforcing steel in walls	Walls where vehicles are <u>not</u> allowed within 5 feet (use Table D-1) ^a	All walls with pumpout ports and walls where vehicles are allowed within 5 feet (use Table D-2) ^a	Walls where vehicles are <u>not</u> allowed within 5 feet (use Table D-3) ^b	All walls with pumpout ports and walls where vehicles are allowed within 5 feet (use Table D-4) ^b	Proposed horizontal steel in walls (use Table D-5)
Grade 40, No. 4					
Grade 40, No. 5			10	0	12
Grade 60, No. 4 Grade 60, No. 5			10	9	12
below th E) Steel Tanks: (e liquid level, the tank	will also be constructed a	ccording to the 567 IAC 6		
Telephone:			Fax		
To determine the structure ³ , check in the structure in the structure in the structure in the second in the secon	any of the following 3 becked boxes A.1, A.2, A ed items 1 to 15 (below) ecked box B.1 (on page xes (below). ecked boxes A.4 or B.2	s set forth in 567 IAC 65 oxes based on the inform 3 or B.3 (on page 2) <u>all</u> o 2), only the requirement	nation entered on Section f the following 15 additions of numbered items 1, 3 tank will have a concrete	to the proposed formed mails 3.A or 3.B (page 2): Inal requirements apply. Co , 4, 5, 6, 8 and 12 apply and floor, only the requiremen	omplete the
		_	truction of the formed	I manure storage structi	ure(s)³:
The finisl	_	ed manure storage struct	_	compacted to provide a uni ubrule, "uniform" means a	
When th installed placed w with a m drain tile	e groundwater table, as along the footings to a ithin 3 feet of the footi inimum of 2 inches of g . A device to allow mor	rtificially lower the groun ngs as indicated in Appen ravel, granular material, itoring of the water in th	c," is above the bottom c dwater table pursuant to dix D, Figure D-1, at the c fabric or a combination o e drainage tile lines insta	of the formed structure, a d 65.15(7)"b"(2). The drain t end of this chapter and sha f these materials to preven lled to lower the groundwa le lines do not have a surfa	ile shall be Il be covered t plugging the ter table and a

To determine the appropriate vertical steel in walls, first check one of the following boxes (must check one):

accessible on the property where the formed manure storage structure is located.

	In lieu of the drain tile, a certification signed by a PE ² , a groundwater professional certified pursuant to 567 Chapter 134, or a qualified staff from NRCS, is being submitted indicating that the groundwater elevation, according to 65.15(7)"c", is below the bottom of the formed structure.
3.	Minimum as-placed concrete compressive strength (check the following box): All concrete shall have the following minimum as-placed compressive strengths and shall meet American Society for Testing and Materials (ASTM) standard ASTM C 94: 4,000 pounds per square inch (psi) for walls, floors, beams, columns and pumpouts and 3,000 psi for the footings. The average concrete strength by testing shall not be below design strength. No single test result shall be more than 500 psi less than the minimum compressive strength.
4.	Cement and aggregates specifications (check the following box): Cementitious materials shall consist of Portland cement conforming to ASTM C 150. Aggregates shall conform to ASTM C 33. Blended cements in conformance with ASTM C 595 are allowed only for concrete placed between March 15 and October 15 Portland-pozzolan cement or Portland blast furnace slag blended cements shall contain at least 75 percent, by mass, of Portland cement.
5.	Concrete consolidation and vibration requirements (check the following box): All concrete placed for walls shall be consolidated or vibrated, by manual or mechanical means, or a combination, in a manner which meets ACI 309.
6.	Minimum rebar specifications: (check the following box): All rebar used shall be a minimum of grade 40 steel. All rebar, with the exception of rebar dowels connecting the walls to the floor or footings, shall be secured and tied in place prior to the placing of concrete.
7.	Wall reinforcement placement specifications (check the following box): All wall reinforcement shall be placed so as to have a rebar cover of 2 inches from the inside face of the wall for a belowground manure storage structure. Vertical wall reinforcement should be placed closest to the inside face. Rebar placement shall not exceed tolerances specified in ACI 318.
8.	Minimum floor specifications. Complete part a) and b): a) Floor thickness requirements (check the following box): The floor slab shall be a minimum of 5 inches thick. Nondestructive methods to verify the floor slab thickness may be required by the department. The results shall indicate that at least 95 percent of the floor slab area meets the minimum required thickness. In no case shall the floor slab thickness be less than 4½ inches.
	b) The floor slab reinforcement shall be located in the middle of the thickness of the floor slab (check one of the following boxes) Formed manure storage structures with a depth of 4 feet or more shall have primary reinforcement consisting of a minimum of #4 rebar placed a maximum of 18 inches on center in each direction placed in a single mat. Formed manure storage structure with a depth less than 4 feet shall have shrinkage reinforcement consisting of a minimum of 6 × 6-W1.4 × W1.4 welded wire fabric.
9.	Minimum footing specifications (check the following box): The footing or the area where the floor comes in contact with the walls and columns shall have a thickness equal to the wall thickness, but in no case be less than 8 inches, and the width shall be at least twice the thickness of the footing. All exterior walls shall have footings below the frostline. Tolerances shall not exceed -½ inch of the minimum footing dimensions.
10.	Requirement to connect walls to footings (check one of the following boxes): The vertical steel of all walls shall be extended into the footing, and be bent at 90°, OR A separate dowel shall be installed as a #4 rebar that is bent at 90° with at least 20 inches of rebar in the wall and extended into the footing within 3 inches of the bottom of the footing and extended at least 3 inches horizontally, as indicated in Appendix D, Figure D-1 (page 10). Dowel spacing (bend or extended) shall be the same as the spacing for the vertical rebar. As an alternative to the 90°bend, the dowel may be extended at least 12 inches into the footing, with a minimum concrete cover of 3 inches at the bottom, as indicated in Appendix D, Figure D-1 (page 10). Dowel spacing (bend or extended) shall be the same as the spacing for the vertical rebar. In lieu of dowels, mechanical means or alternate methods may be used as anchorage of interior walls to footings. Please submit structural calculations and details of this proposal.
11.	Concrete forms specifications (check the following box): All walls shall be formed with rigid forming systems and shall not be earth-formed. Form ties shall be non-removable.

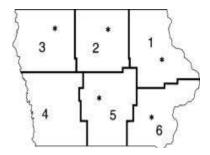
04/2018 cmc 4 DNR Form 542-8068

12.	mental con preventing eval	s (check the following box): for at least seven days after placing, in a manner which poration. Proper curing shall be done by ponding, spray M C 309; or by using wet burlap, plastic sheets or simila	ring or forging western as here's
13.	placed through the joint. W. indicated in Appendix D, Fig	ops specifications (check the following box): erior walls shall be constructed to prevent discontinuit aterstops shall be installed in all areas where fresh conducted to the conducted by the department.	croto will most bandaged
14.	Backfilling of walls specifications Backfilling of the walls shall performed with material free	(check the following box): not start until the floor slats or permanent bracing have e of vegetation, large rocks or debris.	e been installed. Backfilling shall be
15.	Additional design requirements A formed manure storage st	check the following box, if applicable): ructure with a depth greater than 12 feet shall be desig	gned by a PE or an NRCS engineer.
G)	Construction Certification: The particular Any change(s) to the specification	person responsible for constructing the formed manure ns of the formed manure storage structure must be firs	storage structure ³ must sign this page. at approved by DNR:
auc	chapter III, and the 567 lowa Adm	understand the minimum design and construction stan linistrative Code (IAC) 65.15(14) "Minimum concrete st nure storage structure(s) ³ at the operation:	ndards of Iowa Code chapter 459, andards" or 567 IAC 65 (if other than
	ne of operation:		County:
Owr	ner's name:		35.00 i =
Brer	Pages 4 to 6 (applicable sections) Other documents (specify):	torage structure ³ that have different dimensions	3-24-2020
	t name)	(Signature)	(Date)
-	lity Ag, Inc.	15481 Highway D20, Alden, IA 50006	515-859-7824, ext. 11
Con	npany)	(Address) (See page 6 for mailing instructions)	(Phone No.)
	constructing the formed manure 567 IAC 65.15(14)"c". Karst terrain in an area that exhibits karst terra 65.15(14)"a" or "b" shall apply. In nondry or dry manure (check all of (1) A minimum 5-foot vertica limestone, dolomite, or other NRCS engineer. (The 5-foot set the formed manure storage s (2) If the vertical separation of dolomite, or other soluble ro who certifies the structural in underneath the floor of the foot structure be constructed aboo limestone, dolomite, or other (3) In addition, in an area tha qualified organization shall su	I separation distance between the bottom of a formed soluble rock is required if the formed manure storage eparation must be a continuous profile of low permeab	med manure storage structure is located nimum concrete standards set forth in ed manure storage structures that store manure storage structure and structure is not designed by a PE or an illity soil directly beneath the bottom of manure storage structure and limestone, and sealed by a PE or an NRCS engineer ted clay soil shall be constructed mended that any formed manure storage me bottom of the structure and the win sinkhole, a PE, an NRCS engineer or a possil borings or test pits to determine
		equally spaced within each formed structure, or two to	

grout, bentonite, or sim (4) Groundwater monito (5) Backfilling shall not s	ilar materials. oring shall be performed as specified by the dep	oring and pit shall be properly plugged with concrete partment. ermanent bracing has been installed, and shall be
'I have read and understand the	-	"c", and certify that the proposed formed manure ese standards":
Print name)	(Signature)	(Date)
Company)	(Address)	(Phone No.)
structure, other than storage of renvestigated for drainage tile line existence of drainage tile lines. The applicant for a construct the structure. Drainage tile listructure to continue the floconcrete, Portland cement of the time of construction to lithe drainage tile lines and a	manure in an exclusively dry form, the site for the sas provided in this subrule. All applicable reconsion permit for a formed manure storage structines discovered upgrade from the structure shaw of drainage. All other drainage tile lines discovered grout or similar materials or reconnect power a groundwater table may remain where lower as the site of the site of the same and the site of the site of the site of the same and the site of the site o	cure shall investigate for tile lines during excavation for all be rerouted around the formed manure storage overed shall be rerouted, capped, plugged with ted to upgrade tile lines. Drainage tile lines installed at occated. A device to allow monitoring of the water in a shall be installed if the drainage tile lines do not
	derstand the requirements of 567 IAC 65.15(1) ^a	"c" and that to the best of my knowledge, information
Name of operation:		County:
	measures to reestablish drainage and, upon c	property lines and if construction disturbs drainage completion of construction, file a statement that those
Print name)	(Signature)	(Date)
Company)	(Address)	(Phone No.)
Martin and a site of the same	and the Coffice CDC annualization of the	oda –

Mailing Instructions: Mail only pages 1 to 6 of this CDS according to the following:

1. Operations not needing a construction permit (AUC¹ between 501 and 999 AU and constructing a formed manure storage structure³) but required to submit a manure management plan (MMP), at least <u>30 days</u> prior to beginning construction must file this CDS, the required karst and alluvial soils documentation requested in Section 1,C and 1,D (page 1) along with the required MMP documents and fees with the nearest DNR Field Office:



Field Office 1	Field Office 3	Field Office 5
909 W Main St Ste 4	1900 N Grand Ave	7900 Hickman Rd Ste 200
Manchester, IA 52057	Spencer, IA 51301	Windsor Heights, IA 50324
(563) 927-2640	(712) 262-4177	(515) 725-0268
Field Office 2	Field Office 4	Field Office 6
2300 15 th St SW	1401 Sunnyside Ln	1023 W Madison
Mason City, IA 50401	Atlantic, IA 50022	Washington, IA 52353
(641) 424-4073	(712) 243-1934	(319) 653-2135



Manure Management Plan Form Animal Feeding Operation Information

Page 1

Instructions: Complete this form for your animal feeding operation. Footnotes are provided on page 4.

The information within this form, and the attachments, describes my animal feeding operation, my manure storage and handling system, and my planned manure management system. I (we) will manage the manure, and the nutrients it contains, as described within this manure management plan (MMP) and any revisions of the plan, individual field information, and field summary sheet, and in accordance with current rules and regulations. Deviations permitted by lowa law will be documented and maintained in my records.

gned: <u>My</u>	Ire) Terri	0		Broc (Print n	ck Ferris	Date:	26-March-202
ame of operation: Ferris	Pork				Facilit	y ID No.	68724
cation of the operation	: 1840	O JJ Ave					
•		(911 address)					
	Iowa			IA		50126	5
		(Town)		(State)		(Zip)	
$\frac{\text{SW}}{(1/4 1/4)}$ 1/4 of the $\frac{\text{NE}}{(1/4)}$		$\frac{16}{\text{Section}} \qquad \text{T} \frac{88N}{\text{(Tier & Range)}} \qquad \text{R} \frac{21V}{\text{(Tier & Range)}}$	<u>v</u>	Ellis (To	wnship Name)	<u> </u>	Hardin (County)
wner and contacts of th	e animal fe	eding operation:					
Owner Ferris Pork, LL	С				Phone	641-640-0226	
Address 21828 J Ave, I	owa Falls, IA	50126					
E-mail address (optional)					Cell _l	phone (optional)	
Contact person (if differen	nt than owner)	Del Johnston			Phone	515-450-4871	
Address 827 Lafayette	Ave, Story Ci	ty, IA 50248					
E-mail address (optional)					Cell	phone (optional)	
Contract company (if appl Address	-				Phone		
nis manure managemen _existing operation, not expand	ding	existing operation, expanding		_	g operation, new	owner	new operation
			_	II expa			
Table 1. Information	about livest	ock production and manu	– ire mai	nagen	nent system		
1	2	3	4	5	6	7	8
Animal type/ Production phase a	Max # of animals confined	Manure Storage Structure ^b	N ^c	P ₂ O ₅ ^c	gal/space/dy d	Days/yr Facility occupied	Annual Manure Produced ^e
Grow/finish (wet/dry)	4992	Indoor Formed	40.3			355	1,594,944
	.552	macor romica	0	0	0.0	333	000
ISEIECT DEDUITETION DUSCE			0	0	0.0		000
Select production phase	1		U	U	0.0		000
Select production phase							
						Total Gallons	1,594,944
	production	: <u>11,980</u> anin	nals/ye	ar		Total Gallons	1,594,944

Determining Maximum Allowable Manure Application Rates

Page 2

Instructions: Complete a worksheet for each unique combination of the following factors (crop rotation, optimum crop yield, manure nutrient concentration, remaining crop N need, method of application) that occurs at this operation. Complete form by filling in blanks, yellow-colored cells, and drop down menus. Gray shaded cells will calculate automatically. Footnotes are given on pages 4, 5 and 6.

Management Identification (Mgt ID) ^f			ССВ				
		•	(identify this ap	plication s	cenario by letter)		
Method to determine of	optimum crop yield ^g	USDA Iowa A	g Statistics County yields	¥	Timing of application	Spr/Fall	
Method of application	Knifed in or soil injec	tion of liquid ma	anure	_	Application loss factor	0.98	
If spray irrigation is use	d, identify method i						

Table 2. Manure nutrient concentration

Manure Nutrient Content (lbs/1000gal or lbs/ton) ^j												
Total N	40.3		P_2O_5	22.1								
%TN Available 1st yeark	100%	2nd year		3rd year								
Available N 1st year	39.5	2nd year ^m	0.0	3rd year ⁿ	0.0							

Table 3. Crop usage rates^o

lb/bu or			
lb/ton	N		P ₂ O ₅
Corn	1.2	Ŧ	0.32
Soybean	3.8		0.72
Alfalfa	50		13
Other crop -	0		0

^{*}Use blank space above to add crop not listed.

Table 4. Calculations for rate based on nitrogen (always required)

1	Applying Manure For (crop to be grown) ^p		Corn	Corn	Soybean	Corn	
2	Optimum Crop Yield ^g	bu or ton/acre	220.88	220.88	62.04	220.88	
3	P ₂ O ₅ removed with crop by harvest ^q	lb/acre	70.7	70.7	44.7	70.7	
4	Crop N utilization ^r	lb/acre	265	265	236	265	
5a	Legume N credit ^s	lb/acre	50	0	0	50	
5b	Commercial N planned ^t	lb/acre	0	0	135.752	0	
5c	Manure N carryover credit ^u	lb/acre		0.0	0.0	0.0	
6	Remaining crop N need $^{^{\vee}}$	lb/acre	215	265	100	215	
7	Manure rate to supply remaining N ^w	gal/acre	5445	6711	2532	5445	
8	P ₂ O ₅ applied with N-based rate ^x	lb/acre	120	148	56	120	

Table 5. Calculations for rate based on phosphorus (fill out only if P-based rates are planned)

9	Commercial P ₂ O ₅ planned ^y	lb/acre				
10	Manure rate to supply P removal ^z	gal/acre	3198	3198	2021	3198
11	Manure rate for P based plan aa	gal/acre				
12	Manure N applied with P-based plan bb	lb/acree	0	0	0	0

Table 6. Application rates that will be carried over to page 3

_	The second secon	· · · · · · · · · · · · ·				
	13 Planned manure application rate ^{cc}	gal/acre	5445	6711	2532	5445

When applicable, manure application rates must be based on the P index value as follows:

09/2015 jk DNR Form 542-4000b

⁽⁰⁻²⁾ N-based manure management.

^{(&}gt;2-5) N-based manure management but P application rate cannot exceed two times the P removal rate of the crop schedule.

^{(&}gt;5-15) No manure application until practices are adopted to reduce P index to 5 or below.

^{(&}gt;15) No manure application.

Manure Analysis

Submitted By

5J FARMS AND SERVICES 827 LAFAYETTE AVE STORY CITY, IA 50248

Submitted For

FERRIS PORK

Date Sampled

8/9/2019

Date Received

19-Aug-2019

Information Sheet No.

Laboratory Sample #

Date Reported

BP47237

Account Number EW50014101

Test Package Basic

20-Aug-2019

M0816-20

Location BLNK

Sample ID 1

Livestock Type Hog **Handling Type**

Liquid

	Results
Analysis	(as Received)
Total N, (TKN)	0.48 %
Phosphorus, P₂O₅	0.26 %
Potassium, K₂O	0.46 %
Sulfur, S	0.07 %
Dry Matter	5.69 %
Moisture	94.31 %

	LIQUID Est. Available Nutrient Credits (as received, lbs / 1000 gal)													
Nutrients as		In 1st Year	In 2nd	In 3rd										
lbs/1000 gal	Injected	Incorporated*	Broadcast**	Year	Year									
40.3	35.5 - 40.3	34.4 - 39.9	27.2 - 36.3	0.0	0.0									
22.1	19.9 - 22.1	19.9 - 22.1	19.9 - 22.1	Residual a	fter uptake									
38.0	34.2 - 38.0	34.2 - 38.0	34.2 - 38.0	Residual after uptake										
5.5	3.0 - 5.5	3.0 - 5.5	3.0 - 5.5		•									

	DRY Est. Available Nutrient Credits (as received, lbs / ton)													
Nutrier	nts as	In 1s	t Year	In 2nd	In 3rd									
lbs/ton		Incorporated*	Broadcast**	Year	Year									
TKN	9.7	8.3 - 9.6	6.1 - 8.2	0.0	0.0									
P ₂ O ₅	5.3	4.8 - 5.3	4.8 - 5.3	Residual a	fter uptake									
K ₂ O	9.1	8.2 - 9.1	8.2 - 9.1	Residual after uptak										
S	1.3	0.7 - 1.3	0.7 - 1.3											

The Total N (TKN) values are the sum of Ammonium and Organic N. Avaialbility estimates are corrected for ammonia volatilization loss due to each application method.

Available Nutrient Credit ranges are shown for soil and climate conditions prevalent in the Upper Midwest states.

Liquid manure applied as irrigation will lose more nitrogen from volatilization. An additional 15% of the Liquid TKN value should be subtracted off the Liquid Broadcast TKN Range.

DISCLAIMER: Data and information in this report are intended solely for the individual(s) for whom samples were submitted. Reproduction of this report must be in its entirety. Levels listed are guidelines only. Data was reported based on standard laboratory procedures and deviations.

^{*}Surface applied liquid or solid manure incorporated within 1- 4 hours after application.

^{**}Liquid or solid manure left on the surface 4 or more days without incorporation. Wind and high temperature will result in greater loss of available nitrogen.

Year by Year Manure Management Plan Summary

Page 3

Instructions: Complete this form for each of the next four growing seasons, to demonstrate sufficient land base to apply manure over multiple crop years. If this page i identical for multiple years (e.g. every other year), submit only once for the identical years, and indicate which years the form represents. Footnotes are given on page

Crop year(s): 2020, 2023

1	2	3	4	5	6	7	8	9	10	11
Field Designation ^{ee}	Field Location1/4 of the 1/4 Sec T R Townsip Name, County Name	Mgt Id ^{ff}	Planned Crop	Acres receiving manure ^{gg}	Own, rent, agreement (include length of agreement)	P index	HEL (Y/N) ^{jj}	Planned gal/acre	Application gal/field ^{kk}	Correct Soil Test for P ^{II} (Yes or No)
Designation	S 1/2 NE 1/4 and N 1/2 N 1/2 SE 1/4 Sec 16 T88N	iu	Сгор	manarc	length of agreement)	value	(1/14)	gai/acic	gai/Ticiu	(103 01 140)
68724-01	R21W Ellis, Hardin County	ССВ	С	104.8	Own	0.70	N	6711	703344	Yes
68724-02	S 1/2 N 1/2 SE 1/4 Sec 16 T88N R21W Ellis, Hardin County	ССВ	С	32.4	Own	0.77	N	5445	176427	Yes
68724-03a	SE 1/4 NW 1/4 and NE 1/4 SW 1/4 Sec 16 T88N R21W Ellis, Hardin County	ССВ	С	13.9	Own	3.95	N	5445	75689	Yes
68724-03b	SE 1/4 NW 1/4 and NE 1/4 SW 1/4 Sec 16 T88N R21W Ellis, Hardin County	ССВ	С	52.4	Own	0.65	N	5445	285333	Yes
68724-04	Fr SW 1/4 Sec 21 and Fr NW 1/4 of NE 1/4 Sec 28 T88N R21W Ellis, Hardin County	ССВ	В	162.8	Own	1.02	N	2532	412215	Yes
68724-05	N 1/2 NE 1/4 Sec 16 T88N R21W Ellis, Hardin County NE 1/4 NW 1/4 Sec 16 T88N R21W Ellis, Hardin	ССВ	В	70.7	Easement	1.57	N	2532	179015	Yes
68724-06	County	ССВ	В	34.5	Easement	1.27	N	2532	87355	Yes
					Takal salla					\vdash

Total acres available for manure application 471.5

Total gallons that could be applied 1919378

Year by Year Manure Management Plan Summary

Page 3

Instructions: Complete this form for each of the next four growing seasons, to demonstrate sufficient land base to apply manure over multiple crop years. If this page i identical for multiple years (e.g. every other year), submit only once for the identical years, and indicate which years the form represents. Footnotes are given on page

Crop year(s): 2021, 2024

1	2	3	4	5	6	7	8	9	10	11
Field Designation ^{ee}	Field Location1/4 of the 1/4 Sec T R Townsip Name, County Name	Mgt Id ^{ff}	Planned Crop	Acres receiving manure ^{gg}	Own, rent, agreement (include length of agreement) ^{hh}	P index value ⁱⁱ	HEL (Y/N) ^{jj}	Planned gal/acre	Application gal/field ^{kk}	Correct Soil Test for P ^{II} (Yes or No)
	S 1/2 NE 1/4 and N 1/2 N 1/2 SE 1/4 Sec 16 T88N		5. Sp				(1711)		82.4.1.2.2	(**************************************
68724-01	R21W Ellis, Hardin County	CCB	В	104.8	Own	0.70	N	2532	265357	Yes
68724-02	S 1/2 N 1/2 SE 1/4 Sec 16 T88N R21W Ellis, Hardin County	ССВ	С	32.4	Own	0.77	N	6711	217446	Yes
68724-03a	SE 1/4 NW 1/4 and NE 1/4 SW 1/4 Sec 16 T88N R21W Ellis, Hardin County	ССВ	С	13.9	Own	3.95	N	6711	93287	Yes
68724-03b	SE 1/4 NW 1/4 and NE 1/4 SW 1/4 Sec 16 T88N R21W Ellis, Hardin County	ССВ	С	52.4	Own	0.65	N	6711	351672	Yes
68724-04	Fr SW 1/4 Sec 21 and Fr NW 1/4 of NE 1/4 Sec 28 T88N R21W Ellis, Hardin County	ССВ	С	162.8	Own	1.02	N	5445	886492	Yes
68724-05	N 1/2 NE 1/4 Sec 16 T88N R21W Ellis, Hardin County	ССВ	С	70.7	Easement	1.57	N	5445	384981	Yes
68724-06	NE 1/4 NW 1/4 Sec 16 T88N R21W Ellis, Hardin County	ССВ	С	34.5	Easement	1.27	N	5445	187862	Yes
	Total acres available for manu	re ap	plication	471.5	Total gallo	ns that	could b	e applied	2387098	

Year by Year Manure Management Plan Summary

Page 3

Instructions: Complete this form for each of the next four growing seasons, to demonstrate sufficient land base to apply manure over multiple crop years. If this page i identical for multiple years (e.g. every other year), submit only once for the identical years, and indicate which years the form represents. Footnotes are given on page

Crop year(s): 2022

1	2	3	4	5	6	7	8	9	10	11
	Field Location			Acres	Own, rent,			Planned	Application	Correct Soil
Field Designation ^{ee}	1/4 of the 1/4 Sec T R Townsip Name, County Name	Mgt Id ^{ff}	Planned Crop	receiving manure ^{gg}	agreement (include length of agreement) hh	P index value ⁱⁱ	HEL (Y/N) ^{jj}	gal/acre	gal/field ^{kk}	Test for P ^{II} (Yes or No)
	S 1/2 NE 1/4 and N 1/2 N 1/2 SE 1/4 Sec 16 T88N R21W Ellis, Hardin County	ССВ	С	104.8	Own	0.70	N	5445	570666	Yes
	S 1/2 N 1/2 SE 1/4 Sec 16 T88N R21W Ellis, Hardin County	ССВ	В	32.4	Own	0.77	N	2532	82038	Yes
68724-03a	SE 1/4 NW 1/4 and NE 1/4 SW 1/4 Sec 16 T88N R21W Ellis, Hardin County	ССВ	В	13.9	Own	3.95	N	2532	35195	Yes
68724-03b	SE 1/4 NW 1/4 and NE 1/4 SW 1/4 Sec 16 T88N R21W Ellis, Hardin County Fr SW 1/4 Sec 21 and Fr NW 1/4 of NE 1/4 Sec 28	ССВ	В	52.4	Own	0.65	N	2532	132678	Yes
68724-04	T88N R21W Ellis, Hardin County	ССВ	С	162.8	Own	1.02	N	6711	1092599	Yes
	N 1/2 NE 1/4 Sec 16 T88N R21W Ellis, Hardin County NE 1/4 NW 1/4 Sec 16 T88N R21W Ellis, Hardin	ССВ	С	70.7	Easement	1.57	N	6711	474489	Yes
	County	ССВ	С	34.5	Easement	1.27	N	6711	231540	Yes
	Total acres available for manu	re ani	olication	471.5	Total gallo	ns that	could h	e applied	2619205	

HIGHWAY AND TRANSPORTATION MAP

HARDIN COUNTY IOWA





United States
Department of Transportation

JANUARY 1, 2016



LEGEND











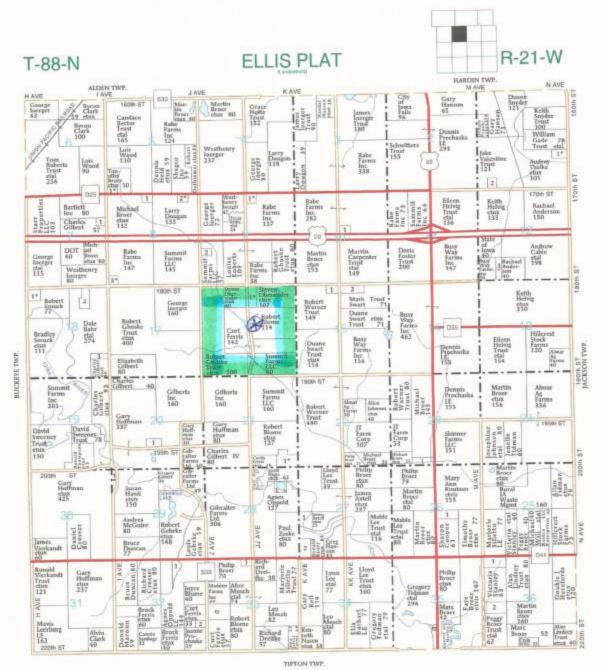
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SECTION 1 1. Reingurdt, Merle 8 2. Preper, Bruce 6

SECTION 5 1. Reece, Bonald 10 SECTION 7

 Eggleston Jr, Steven B SECTION II 1. Christensen Farms

Midwest LLC 6 2. Vanderpool, Thomas 6 2. Hagen, Jean 14

3. Gooper, Wayne 9

SECTION 9 1. Hoover, Scott 6 2. Christensen Farms Midwest LLC 5

SECTION 10 1. Marchant, Roger 6 SECTION 12 1. Helvig, Keith 10 SECTION 15

1. Spilde, Scott 6

SECTION 15 1. Fecht, James 9 SECTION 18

Thoms, James 12 2. Behr, Paul 11 3. Gilbert, Elizabeth 10 SECTION 20

Hottman Seed Farms Inc 8
SECTION 21

1. Riggs, Scott 14

SECTION 23 1. Broer, Philip 13 SECTION 26 1. Broer, Sharon 14

SECTION 27 1. Zoske, Paul 15 2. Hanson, Gregory 13 SECTION 28 1. McGuire, Sheila 13

SECTION 29 1. Hoffman, Gary 8 SECTION 32

Summit Farms LLC 12
 Christensen Farms Midwest LLC 6
 SECTION 33

Vaugn, Belty 10 SECTION 36
 Broer, Victoria 13
 Broer, Lisa 13

KTM TRANSPORT INC.

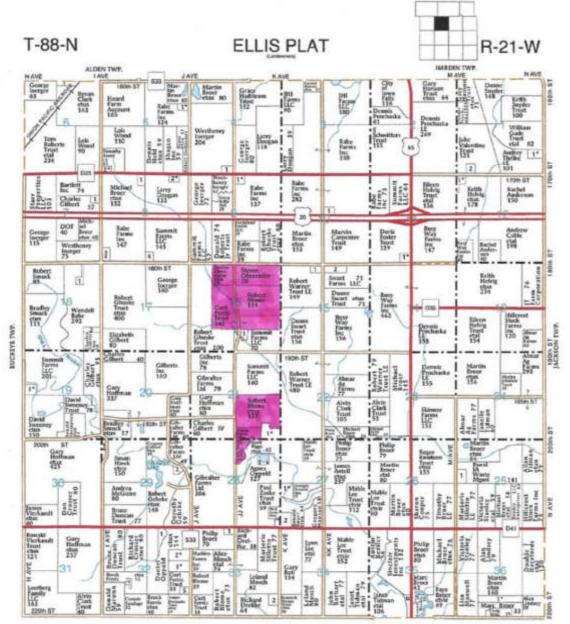
17232 Co Hwy D25 Alden, Iowa 50006 Office: 641-648-3959 Shop: 515-855-4501 Fax: 515-855-4503

Melanie Kinsinger 515-689-3422



Todd Kinsinger 515-689-8473

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- · Equipment Movers
- · Truck Repair



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SECTION 4 1. Statler, Becky 6

SECTION 5

1. Kinnetz Jr, Marvin etux

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SECTION 6 1. Wood, Mary 5

etuz 6 Cooper, Wayne etux 5 Woodford Crock Farms LLP 6

SECTION 7

1. Eggles SECTION 8

LLP 6

SECTION 9 1. Hoover, Scott etux 6 SECTION 10 SECTION 11 1. Faris, G

1. Faris, C SECTION 12 1. Brown, SECTION 15

Swart, Michele 9 SECTION 16

1. Carpenti SECTION 18 1. Bahr, Paul 6 2. Gilbert, Elizabeth 10 1. Bahr, Ja SECTION 21

1. Riggs, Sc SECTION 23

SECTION 25
1. County of Hardin
Sanitary Solid Weste
Commission 11

SECTION 27

15 Hanson, Gregory 13 5. McGuine, Shella etal 13 2. lows Select Farms L

County of Hardin 6
 SECTION 32
 Summit Farms LLC 12
 Procheska Trust,
 Joanne etvir 20

Biome, Robert etux 20
 Hagges Inc 7
 Summit Farms LLC 6
 SECTION 33

SECTION 26

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HARDIN CO., IA



Iowa Phosphorus Index

Credits: Iowa State University

USDA National Soil Tilth Laboratory

USDA Natural Resource Conservation Service

Field Number				Erosion				+	Rund	off	+	+ Tile / S	Subsurface R	Recharge =	: Overall
	Gross	Sediment		Buffer	Enrichment	STP	Erosion	RCN	STP	Р Арр	Runoff	Flow	STP	Tile/Sub	Р
	Erosion X	Trap Factor X	SDR)	Factor	x Factor x	Factor =	PI	Factor X	(Factor +	Factor) =	PI	Factor	x Factor =	PI	Index
68724-01	2.60	1.00	0.10	1.00	1.10	0.89	0.25	1.53	0.27	0.02	0.45	0.00	0.07	0.00	0.70
68724-02	2.60	1.00	0.10	1.00	1.10	0.92	0.26	1.53	0.31	0.02	0.51	0.00	0.07	0.00	0.77
68724-03a	5.70	1.00	0.27	1.00	1.10	1.45	2.47	1.53	0.94	0.02	1.48	0.00	0.15	0.00	3.95
68724-03b	0.83	1.00	0.14	1.00	1.10	0.93	0.12	1.53	0.33	0.02	0.53	0.00	0.07	0.00	0.65
68724-04	2.60	1.00	0.07	1.00	1.10	1.07	0.23	1.53	0.49	0.02	0.79	0.00	0.07	0.00	1.02
68724-05	2.60	1.00	0.09	1.00	1.10	1.32	0.33	1.53	0.79	0.02	1.24	0.00	0.15	0.00	1.57
68724-06	2.40	1.00	0.09	1.00	1.10	1.19	0.27	1.53	0.63	0.02	1.00	0.00	0.15	0.00	1.27



Info:

File: profiles\Ferris\68724-01

Inputs:

Location: USA\lowa\Hardin County

Soil: SSURGO\Hardin County, Iowa\L638C2 Clarion-Storden complex, Bemis moraine, 6 to 10 percent slopes, moderately eroded\Clarion Loam

Bemis moraine, moderately eroded 45%

Slope length (horiz): 130 ft Avg. slope steepness: 8.0 %

Management	Vegetation	Yield units	# yield units, #/ac
managements\CMZ 04\c.Other Local Mgt Records\CCB-Field Cult	vegetations∖Corn, grain	bushels	200.00
managements\CMZ 04\c.Other Local Mgt Records\CCB-Field Cult	vegetations\Corn, grain	bushels	200.00
managements\CMZ 04\c.Other Local Mgt Records\CCB-Field Cult	vegetations\Soybean, mw 15 - 20 in rows	bu	58.000

Contouring: a. rows up-and-down hill

Strips/barriers: (none)

Diversion/terrace, sediment basin: (none)

Subsurface drainage: (none)

Adjust res. burial level: Normal res. burial

Outputs:

T value: 5.0 t/ac/yr

Soil loss erod. portion: 2.6 t/ac/yr Detachment on slope: 2.6 t/ac/yr Soil loss for cons. plan: 2.6 t/ac/yr Sediment delivery: 2.6 t/ac/yr

Crit. slope length: 130 ft Surf. cover after planting: -- %

Date	Operation	Vegetation	Surf. res. cov. after op, %
11/1/0	Manure injector, liquid low disturb.30 inch		87
5/1/1	Sprayer, pre-emergence		73
5/1/1	Planter, double disk opnr w/fluted coulter	Corn, grain	73
6/7/1	Sprayer, post emergence and fert. tank mix		61
10/20/1	Harvest, killing crop 50pct standing stubble		88

11/1/1	Manure injector, liquid low disturb.30 inch		94
11/5/1	Cultivator, field 6-12 in sweeps		88
5/1/2	Sprayer, pre-emergence		84
5/1/2	Planter, double disk opnr w/fluted coulter	Corn, grain	84
6/7/2	Sprayer, post emergence and fert. tank mix		79
10/20/2	Harvest, killing crop 50pct standing stubble		91
10/25/2	Cultivator, field 6-12 in sweeps		88
5/15/3	Sprayer, pre-emergence		84
5/15/3	Planter, double disk opnr, 15 inch row spacing	Soybean, mw 15 - 20 in rows	84
6/7/3	Sprayer, post emergence		84
10/5/3	Harvest, killing crop 20pct standing stubble		93



Info:

File: profiles\Ferris\68724-02

Inputs:

Location: USA\lowa\Hardin County

Soil: SSURGO\Hardin County, Iowa\L638C2 Clarion-Storden complex, Bemis moraine, 6 to 10 percent slopes, moderately eroded\Clarion Loam

Bemis moraine, moderately eroded 45%

Slope length (horiz): 130 ft Avg. slope steepness: 8.0 %

Management	Vegetation	Yield units	# yield units, #/ac
managements\CMZ 04\c.Other Local Mgt Records\CCB-Field Cult	vegetations∖Corn, grain	bushels	200.00
managements\CMZ 04\c.Other Local Mgt Records\CCB-Field Cult	vegetations\Corn, grain	bushels	200.00
managements\CMZ 04\c.Other Local Mgt Records\CCB-Field Cult	vegetations\Soybean, mw 15 - 20 in rows	bu	58.000

Contouring: a. rows up-and-down hill

Strips/barriers: (none)

Diversion/terrace, sediment basin: (none)

Subsurface drainage: (none)

Adjust res. burial level: Normal res. burial

Outputs:

T value: 5.0 t/ac/yr

Soil loss erod. portion: 2.6 t/ac/yr Detachment on slope: 2.6 t/ac/yr Soil loss for cons. plan: 2.6 t/ac/yr Sediment delivery: 2.6 t/ac/yr

Crit. slope length: 130 ft Surf. cover after planting: -- %

Date	Operation	Vegetation	Surf. res. cov. after op, %
11/1/0	Manure injector, liquid low disturb.30 inch		87
5/1/1	Sprayer, pre-emergence		73
5/1/1	Planter, double disk opnr w/fluted coulter	Corn, grain	73
6/7/1	Sprayer, post emergence and fert. tank mix		61
10/20/1	Harvest, killing crop 50pct standing stubble		88

11/1/1	Manure injector, liquid low disturb.30 inch		94
11/5/1	Cultivator, field 6-12 in sweeps		88
5/1/2	Sprayer, pre-emergence		84
5/1/2	Planter, double disk opnr w/fluted coulter	Corn, grain	84
6/7/2	Sprayer, post emergence and fert. tank mix		79
10/20/2	Harvest, killing crop 50pct standing stubble		91
10/25/2	Cultivator, field 6-12 in sweeps		88
5/15/3	Sprayer, pre-emergence		84
5/15/3	Planter, double disk opnr, 15 inch row spacing	Soybean, mw 15 - 20 in rows	84
6/7/3	Sprayer, post emergence		84
10/5/3	Harvest, killing crop 20pct standing stubble		93



Info:

File: profiles\Ferris\68724-03a

Inputs:

Location: USA\lowa\Hardin County

Soil: SSURGO\Hardin County, Iowa\L638D2 Omsrud-Storden complex, Bemis moraine, 10 to 16 percent slopes, moderately eroded\Storden

Loam Bemis moraine, moderately eroded 35%

Slope length (horiz): 130 ft Avg. slope steepness: 12 %

Management	Vegetation	Yield units	# yield units, #/ac
managements\CMZ 04\c.Other Local Mgt Records\CCB-Field Cult	vegetations∖Corn, grain	bushels	165.00
managements\CMZ 04\c.Other Local Mgt Records\CCB-Field Cult	vegetations\Corn, grain	bushels	165.00
managements\CMZ 04\c.Other Local Mgt Records\CCB-Field Cult	vegetations\Soybean, mw 15 - 20 in rows	bu	48.000

Contouring: a. rows up-and-down hill

Strips/barriers: (none)

Diversion/terrace, sediment basin: (none)

Subsurface drainage: (none)

Adjust res. burial level: Normal res. burial

Outputs:

T value: 5.0 t/ac/yr

Soil loss erod. portion: 5.7 t/ac/yr Detachment on slope: 5.7 t/ac/yr Soil loss for cons. plan: 5.7 t/ac/yr Sediment delivery: 5.7 t/ac/yr

Crit. slope length: 130 ft Surf. cover after planting: -- %

Date	Operation	Vegetation	Surf. res. cov. after op, %
11/1/0	Manure injector, liquid low disturb.30 inch		82
5/1/1	Sprayer, pre-emergence		67
5/1/1	Planter, double disk opnr w/fluted coulter	Corn, grain	67
6/7/1	Sprayer, post emergence and fert. tank mix		56
10/20/1	Harvest, killing crop 50pct standing stubble		83

11/1/1	Manure injector, liquid low disturb.30 inch		90
11/5/1	Cultivator, field 6-12 in sweeps		83
5/1/2	Sprayer, pre-emergence		78
5/1/2	Planter, double disk opnr w/fluted coulter	Corn, grain	78
6/7/2	Sprayer, post emergence and fert. tank mix		74
10/20/2	Harvest, killing crop 50pct standing stubble		87
10/25/2	Cultivator, field 6-12 in sweeps		82
5/15/3	Sprayer, pre-emergence		78
5/15/3	Planter, double disk opnr, 15 inch row spacing	Soybean, mw 15 - 20 in rows	78
6/7/3	Sprayer, post emergence		79
10/5/3	Harvest, killing crop 20pct standing stubble		89



Info:

File: profiles\Ferris\68724-03b

Inputs:

Location: USA\lowa\Hardin County

Soil: SSURGO\Hardin County, Iowa\L138B Clarion loam, Bemis moraine, 2 to 6 percent slopes\Clarion Loam Bemis moraine 85%

Slope length (horiz): 130 ft Avg. slope steepness: 3.0 %

Management	Vegetation	Yield units	# yield units, #/ac
managements\CMZ 04\c.Other Local Mgt Records\CCB-Field Cult	vegetations\Corn, grain	bushels	221.00
managements\CMZ 04\c.Other Local Mgt Records\CCB-Field Cult	vegetations\Corn, grain	bushels	221.00
managements\CMZ 04\c.Other Local Mgt Records\CCB-Field Cult	vegetations\Soybean, mw 15 - 20 in rows	bu	64.000

Contouring: a. rows up-and-down hill

Strips/barriers: (none)

Diversion/terrace, sediment basin: (none)

Subsurface drainage: (none)

Adjust res. burial level: Normal res. burial

Outputs:

T value: 5.0 t/ac/yr

Soil loss erod. portion: 0.83 t/ac/yr Detachment on slope: 0.83 t/ac/yr Soil loss for cons. plan: 0.83 t/ac/yr Sediment delivery: 0.83 t/ac/yr

Crit. slope length: 130 ft Surf. cover after planting: -- %

Date	Operation	Vegetation	Surf. res. cov. after op, %
11/1/0	Manure injector, liquid low disturb.30 inch		89
5/1/1	Sprayer, pre-emergence		77
5/1/1	Planter, double disk opnr w/fluted coulter	Corn, grain	77
6/7/1	Sprayer, post emergence and fert. tank mix		64
10/20/1	Harvest, killing crop 50pct standing stubble		91
11/1/1	Manure injector, liquid low disturb.30 inch		95

11/5/1	Cultivator, field 6-12 in sweeps		91
5/1/2	Sprayer, pre-emergence		86
5/1/2	Planter, double disk opnr w/fluted coulter	Corn, grain	86
6/7/2	Sprayer, post emergence and fert. tank mix		82
10/20/2	Harvest, killing crop 50pct standing stubble		93
10/25/2	Cultivator, field 6-12 in sweeps		90
5/15/3	Sprayer, pre-emergence		87
5/15/3	Planter, double disk opnr, 15 inch row spacing	Soybean, mw 15 - 20 in rows	87
6/7/3	Sprayer, post emergence		86
10/5/3	Harvest, killing crop 20pct standing stubble		94



Info:

File: profiles\Ferris\68724-04

Inputs:

Location: USA\lowa\Hardin County

Soil: SSURGO\Hardin County, Iowa\L638C2 Clarion-Storden complex, Bemis moraine, 6 to 10 percent slopes, moderately eroded\Clarion Loam

Bemis moraine, moderately eroded 45%

Slope length (horiz): 130 ft Avg. slope steepness: 8.0 %

Management	Vegetation	Yield units	# yield units, #/ac
managements\CMZ 04\c.Other Local Mgt Records\CCB-Field Cult	vegetations\Corn, grain	bushels	200.00
managements\CMZ 04\c.Other Local Mgt Records\CCB-Field Cult	vegetations\Corn, grain	bushels	200.00
managements\CMZ 04\c.Other Local Mgt Records\CCB-Field Cult	vegetations\Soybean, mw 15 - 20 in rows	bu	58.000

Contouring: a. rows up-and-down hill

Strips/barriers: (none)

Diversion/terrace, sediment basin: (none)

Subsurface drainage: (none)

Adjust res. burial level: Normal res. burial

Outputs:

T value: 5.0 t/ac/yr

Soil loss erod. portion: 2.6 t/ac/yr Detachment on slope: 2.6 t/ac/yr Soil loss for cons. plan: 2.6 t/ac/yr Sediment delivery: 2.6 t/ac/yr

Crit. slope length: 130 ft Surf. cover after planting: -- %

Date	Operation	Vegetation	Surf. res. cov. after op, %
11/1/0	Manure injector, liquid low disturb.30 inch		87
5/1/1	Sprayer, pre-emergence		73
5/1/1	Planter, double disk opnr w/fluted coulter	Corn, grain	73
6/7/1	Sprayer, post emergence and fert. tank mix		61
10/20/1	Harvest, killing crop 50pct standing stubble		88

11/1/1	Manure injector, liquid low disturb.30 inch		94
11/5/1	Cultivator, field 6-12 in sweeps		88
5/1/2	Sprayer, pre-emergence		84
5/1/2	Planter, double disk opnr w/fluted coulter	Corn, grain	84
6/7/2	Sprayer, post emergence and fert. tank mix		79
10/20/2	Harvest, killing crop 50pct standing stubble		91
10/25/2	Cultivator, field 6-12 in sweeps		88
5/15/3	Sprayer, pre-emergence		84
5/15/3	Planter, double disk opnr, 15 inch row spacing	Soybean, mw 15 - 20 in rows	84
6/7/3	Sprayer, post emergence		84
10/5/3	Harvest, killing crop 20pct standing stubble		93



Info:

File: profiles\Ferris\68724-05

Inputs:

Location: USA\lowa\Hardin County

Soil: SSURGO\Hardin County, Iowa\L638C2 Clarion-Storden complex, Bemis moraine, 6 to 10 percent slopes, moderately eroded\Clarion Loam

Bemis moraine, moderately eroded 45%

Slope length (horiz): 130 ft Avg. slope steepness: 8.0 %

Management	Vegetation	Yield units	# yield units, #/ac
managements\CMZ 04\c.Other Local Mgt Records\CCB-Field Cult	vegetations\Corn, grain	bushels	200.00
managements\CMZ 04\c.Other Local Mgt Records\CCB-Field Cult	vegetations\Corn, grain	bushels	200.00
managements\CMZ 04\c.Other Local Mgt Records\CCB-Field Cult	vegetations\Soybean, mw 15 - 20 in rows	bu	58.000

Contouring: a. rows up-and-down hill

Strips/barriers: (none)

Diversion/terrace, sediment basin: (none)

Subsurface drainage: (none)

Adjust res. burial level: Normal res. burial

Outputs:

T value: 5.0 t/ac/yr

Soil loss erod. portion: 2.6 t/ac/yr Detachment on slope: 2.6 t/ac/yr Soil loss for cons. plan: 2.6 t/ac/yr Sediment delivery: 2.6 t/ac/yr

Crit. slope length: 130 ft Surf. cover after planting: -- %

Date	Operation	Vegetation	Surf. res. cov. after op, %
11/1/0	Manure injector, liquid low disturb.30 inch		87
5/1/1	Sprayer, pre-emergence		73
5/1/1	Planter, double disk opnr w/fluted coulter	Corn, grain	73
6/7/1	Sprayer, post emergence and fert. tank mix		61
10/20/1	Harvest, killing crop 50pct standing stubble		88

11/1/1	Manure injector, liquid low disturb.30 inch		94
11/5/1	Cultivator, field 6-12 in sweeps		88
5/1/2	Sprayer, pre-emergence		84
5/1/2	Planter, double disk opnr w/fluted coulter	Corn, grain	84
6/7/2	Sprayer, post emergence and fert. tank mix		79
10/20/2	Harvest, killing crop 50pct standing stubble		91
10/25/2	Cultivator, field 6-12 in sweeps		88
5/15/3	Sprayer, pre-emergence		84
5/15/3	Planter, double disk opnr, 15 inch row spacing	Soybean, mw 15 - 20 in rows	84
6/7/3	Sprayer, post emergence		84
10/5/3	Harvest, killing crop 20pct standing stubble		93



Info:

File: profiles\Ferris\68724-06

Inputs:

Location: USA\lowa\Hardin County

Soil: SSURGO\Hardin County, Iowa\L138C2 Clarion loam, Bemis moraine, 6 to 10 percent slopes, moderately eroded\Clarion Loam Bemis

moraine, moderately eroded 85% Slope length (horiz): 130 ft Avg. slope steepness: 8.0 %

Management	Vegetation	Yield units	# yield units, #/ac
managements\CMZ 04\c.Other Local Mgt Records\CCB-Field Cult	vegetations\Corn, grain	bushels	213.00
managements\CMZ 04\c.Other Local Mgt Records\CCB-Field Cult	vegetations\Corn, grain	bushels	213.00
managements\CMZ 04\c.Other Local Mgt Records\CCB-Field Cult	vegetations\Soybean, mw 15 - 20 in rows	bu	62.000

Contouring: a. rows up-and-down hill

Strips/barriers: (none)

Diversion/terrace, sediment basin: (none)

Subsurface drainage: (none)

Adjust res. burial level: Normal res. burial

Outputs:

T value: 5.0 t/ac/yr

Soil loss erod. portion: 2.4 t/ac/yr Detachment on slope: 2.4 t/ac/yr Soil loss for cons. plan: 2.4 t/ac/yr Sediment delivery: 2.4 t/ac/yr

Crit. slope length: 130 ft Surf. cover after planting: -- %

Date	Operation	Vegetation	Surf. res. cov. after op, %
11/1/0	Manure injector, liquid low disturb.30 inch		88
5/1/1	Sprayer, pre-emergence		75
5/1/1	Planter, double disk opnr w/fluted coulter	Corn, grain	75
6/7/1	Sprayer, post emergence and fert. tank mix		63
10/20/1	Harvest, killing crop 50pct standing stubble		90

11/1/1	Manure injector, liquid low disturb.30 inch		95
11/5/1	Cultivator, field 6-12 in sweeps		90
5/1/2	Sprayer, pre-emergence		85
5/1/2	Planter, double disk opnr w/fluted coulter	Corn, grain	85
6/7/2	Sprayer, post emergence and fert. tank mix		81
10/20/2	Harvest, killing crop 50pct standing stubble		92
10/25/2	Cultivator, field 6-12 in sweeps		89
5/15/3	Sprayer, pre-emergence		86
5/15/3	Planter, double disk opnr, 15 inch row spacing	Soybean, mw 15 - 20 in rows	86
6/7/3	Sprayer, post emergence		85
10/5/3	Harvest, killing crop 20pct standing stubble		94

68724-01 Boundary



16-88N-21W Hardin County Iowa





68724-02 Boundary



16-88N-21W Hardin County Iowa



Surety

O AgriData, Inc. 2018 www.AgriDataInc.com

68724-03 Boundary



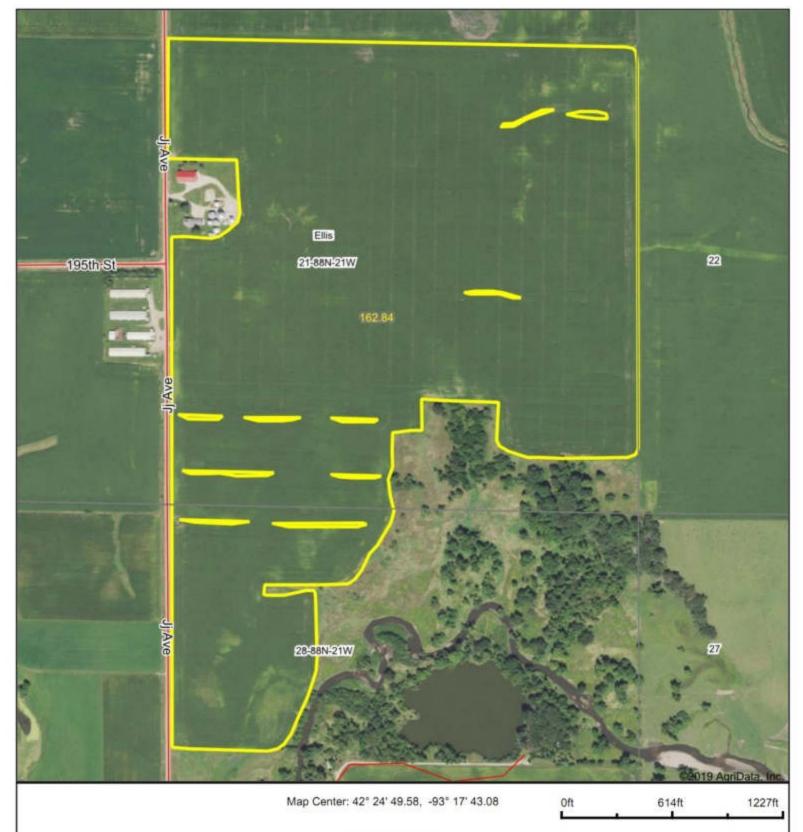
Surety

O Agribata, Inc. 2018 www. Agribatainc.com

16-88N-21W Hardin County Iowa



68724-04 Boundary



21-88N-21W Hardin County

Iowa





68724-05 Boundary



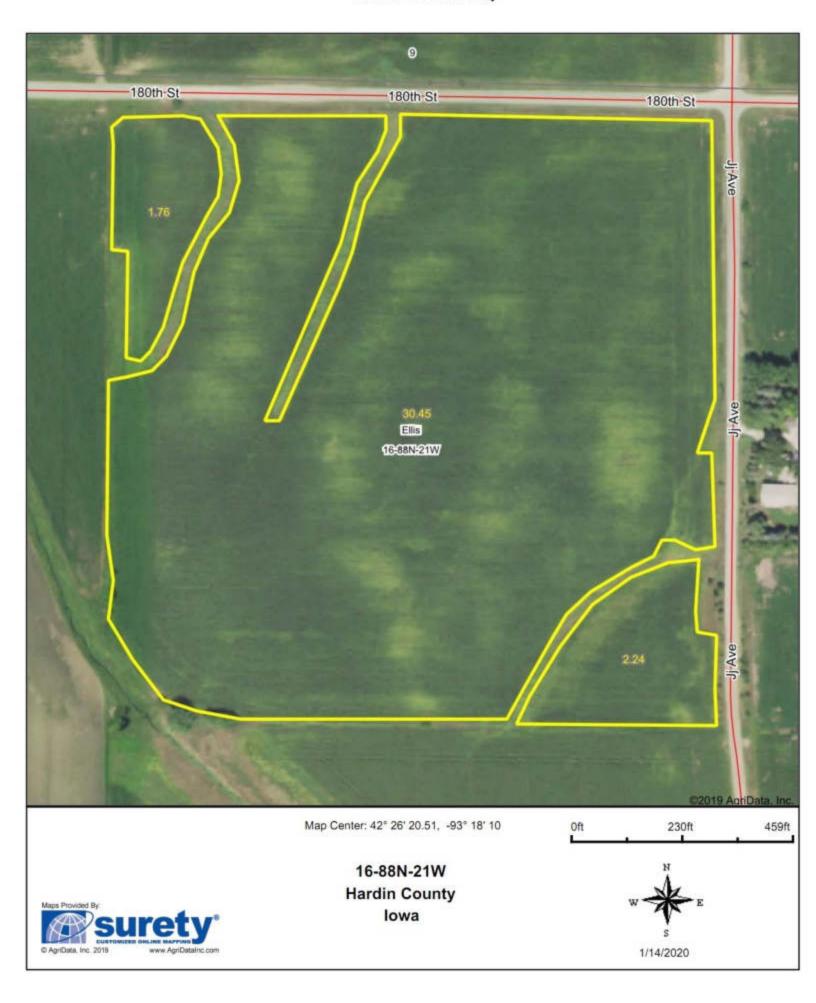
16-88N-21W Hardin County

lowa

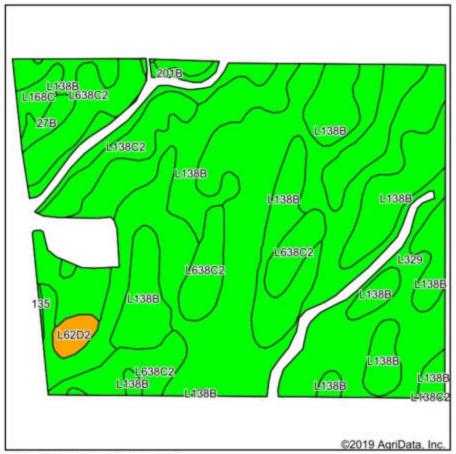


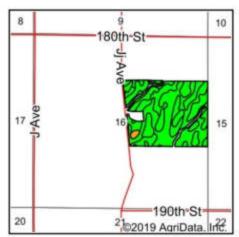


68724-06 Boundary



68724-01 Soils





State: lowa County: Hardin

Location: 16-88N-21W

Township: Ellis
Acres: 104.79
Date: 1/14/2020





Soils data provided by USDA and NRCS.

Code	Soil Description	Acres	Percent of field	CSR2 Legend	Non-Irr Class *c	*i Corn	*i Soybeans	CSR2**	CSR	*n NCCPI Soybeans
L329	Webster-Nicollet complex, Bemis moraine, 0 to 3 percent slopes	42.51	40.6%		11w	0	0	89		81
L138B	Clarion loam, Bernis moraine, 2 to 6 percent slopes	36.20	34.5%		lle	220.8	64	88		79
L638C2	Clarion-Storden complex, Bemis moraine, 6 to 10 percent slopes, moderately eroded	12.16	11.6%		llle	0	0	75		61
L138C2	Clarion loam, Bernis moraine, 6 to 10 percent slopes, moderately eroded	6.92	6.6%		llle	0	0	83		60
201B	Coland-Terril complex, 2 to 5 percent slopes	3.47	3.3%		llw:	208	60.3	80	69	90
L168C	Hayden loam, Bemis moraine, 6 to 10 percent slopes	1.25	1.2%		Ille	0	0	73		72
L62D2	Storden loam, Bemis moraine, 10 to 16 percent slopes, moderately eroded	1.13	1.1%		IVe	0	0	41		60
27B	Terril loam, 2 to 6 percent slopes	1.04	1.0%		lle	224	65	87	84	81
135	Coland clay loam, 0 to 2 percent slopes, occasionally flooded	0.11	0.1%		llw	198.4	57.5	76	80	78
				Weigh	ted Average	85.6	24.8	85.6		*n 76.6

^{**}IA has updated the CSR values for each county to CSR2.

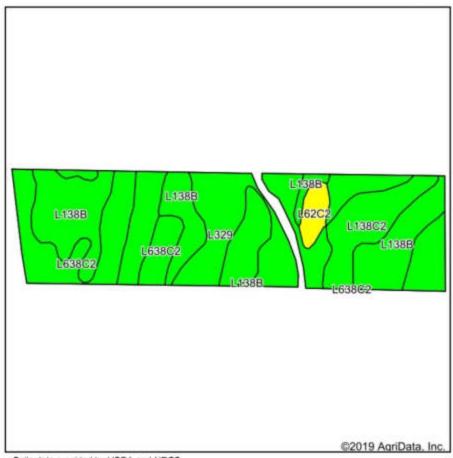
^{*-} CSR weighted average cannot be calculated on the current soils data, use prior data version for csr values.

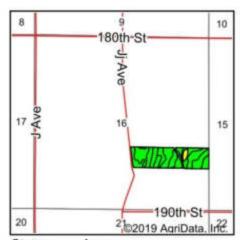
^{*}i Yield data provided by the ISPAID Database version 8.1.1 developed by IA State University.

[&]quot;n: The aggregation method is "Weighted Average using major components"

^{*}c: Using Capabilities Class Dominant Condition Aggregation Method

68724-02 Soils





State: lowa County: Hardin 16-88N-21W Location:

Township: Ellis Acres: 32.39 1/14/2020 Date:



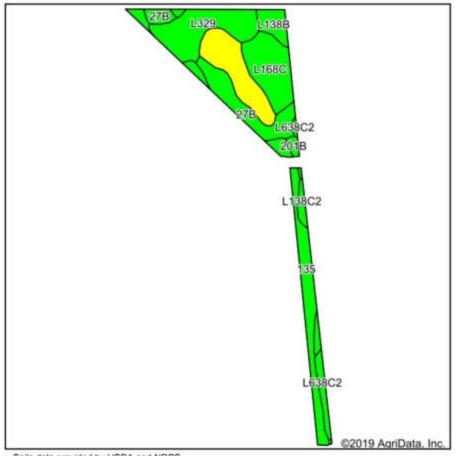


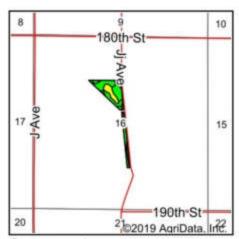
Code	Soil Description	Acres	Percent of field	CSR2 Legend	Non-Irr Class *c	*i Corn	*i Soybeans	CSR2**	*n NCCPI Soybeans
L329	Webster-Nicollet complex, Bemis moraine, 0 to 3 percent slopes	11.10	34.3%		llw	0	0	89	81
L138B	Clarion loam, Bernis moraine, 2 to 6 percent slopes	9.13	28.2%		lle	220.8	64	88	79
L638C2	Clarion-Storden complex, Bemis moraine, 6 to 10 percent slopes, moderately eroded	7.79	24.1%		Ille	0	0	75	61
L138C2	Clarion loam, Bernis moraine, 6 to 10 percent slopes, moderately eroded	3.42	10.6%		Ille	0	0	83	60
L62C2	Storden loam, Bemis moraine, 6 to 10 percent slopes, moderately eroded	0.95	2.9%		Ille	0	0	64	63
		-		Weig	hted Average	62.2	18	84	*n 72.9

^{**}IA has updated the CSR values for each county to CSR2.

[&]quot;i Yield data provided by the ISPAID Database version 8.1.1 developed by IA State University.
"n: The aggregation method is "Weighted Average using major components"
"c: Using Capabilities Class Dominant Condition Aggregation Method Soils data provided by USDA and NRCS.

68724-03a Soils





State: lowa Hardin County:

16-88N-21W Location:

Township: Ellis Acres: 13.93 1/14/2020 Date:





Code	Soil Description	Acres	Percent of field	CSR2 Legend	Non-Irr Class *c	*i Corn	*i Soybeans	CSR2**	CSR	*n NCCPI Soybeans
L329	Webster-Nicollet complex, Bemis moraine, 0 to 3 percent slopes	2.87	20.6%	1	llw	0	0	89		81
135	Coland clay loam, 0 to 2 percent slopes, occasionally flooded	2.70	19.4%		llw	198.4	57.5	76	80	78
L638D2	Omsrud-Storden complex, Bemis moraine, 10 to 16 percent slopes, moderately eroded	2.28	16,4%		IVe	0	0	53		58
L168C	Hayden loam, Bemis moraine, 6 to 10 percent slopes	2.25	16.2%		llle	0	0	73		72
27B	Terril loam, 2 to 6 percent slopes	2.13	15.3%		lle	224	65	87	84	81
L138B	Clarion loam, Bernis moraine, 2 to 6 percent slopes	0.68	4.9%		lle	220.8	64	88		79
L638C2	Clarion-Storden complex, Bernis moraine, 6 to 10 percent slopes, moderately eroded	0.52	3.7%		llle	0	0	75		61
L138C2	Clarion loam, Bemis moraine, 6 to 10 percent slopes, moderately eroded	0.32	2.3%		Ille	0	0	83		60
201B	Coland-Terril complex, 2 to 5 percent slopes	0.18	1.3%		llw	208	60.3	80	69	90
				Weigh	ted Average	86.2	25	76.9		*n 74

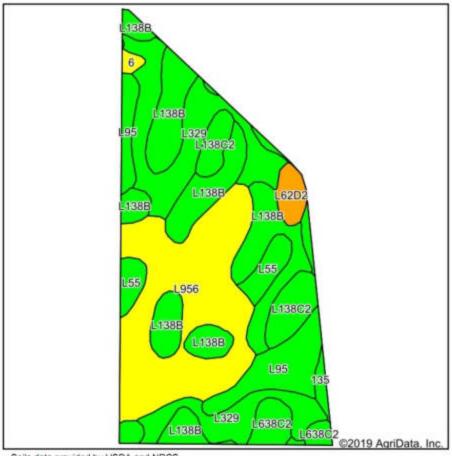
^{**}IA has updated the CSR values for each county to CSR2.

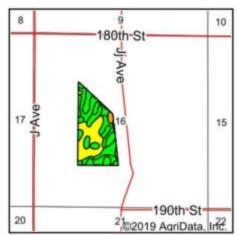
^{*-} CSR weighted average cannot be calculated on the current soils data, use prior data version for csr values.
*i Yield data provided by the ISPAID Database version 8.1.1 developed by IA State University.

[&]quot;n: The aggregation method is "Weighted Average using major components"

^{*}c: Using Capabilities Class Dominant Condition Aggregation Method Soils data provided by USDA and NRCS.

68724-03b Soils





State: lowa County: Hardin

16-88N-21W Location: Township: Ellis

Acres: 52.43 1/14/2020 Date:





Code	Soil Description	Acres	Percent of field	CSR2 Legend	Non-Irr Class *c	*i Corn	*i Soybeans	CSR2**	CSR	*n NCCPI Soybeans
L956	Harps-Okoboji complex, Bemis moraine, 0 to 2 percent slopes	14.84	28.3%		llw	0	0	69		76
L138B	Clarion loam, Bernis moraine, 2 to 6 percent slopes	13.51	25.8%	î .	lle	220.8	64	88		79
L329	Webster-Nicollet complex, Bemis moraine, 0 to 3 percent slopes	10.09	19.2%		llw	0	0	89		81
L95	Harps clay loam, Bemis moraine, 0 to 2 percent slopes	4.68	8.9%		Ilw	0	0	75		76
L138C2	Clarion loam, Bernis moraine, 6 to 10 percent slopes, moderately eroded	3.03	5.8%		Ille	0	0	83		60
L55	Nicollet loam, 1 to 3 percent slopes	2.19	4.2%		le	0	0	91		83
L638C2	Clarion-Storden complex, Bernis moraine, 6 to 10 percent slopes, moderately eroded	1.67	3.2%		llle	0	0	75		61
L62D2	Storden loam, Bemis moraine, 10 to 16 percent slopes, moderately eroded	1.11	2.1%		IVe	0	0	41		60
135	Coland clay loam, 0 to 2 percent slopes, occasionally flooded	1.01	1.9%		llw	198.4	57.5	76	80	78
6	Okoboji silty clay loam, 0 to 1 percent slopes	0.30	0.6%		lliw	185.6	53.8	59	59	77
	. The state of the			Weigh	ted Average	61.8	17.9	79.7	٠.	*n 76.3

^{**}IA has updated the CSR values for each county to CSR2.

^{*-} CSR weighted average cannot be calculated on the current soils data, use prior data version for csr values.

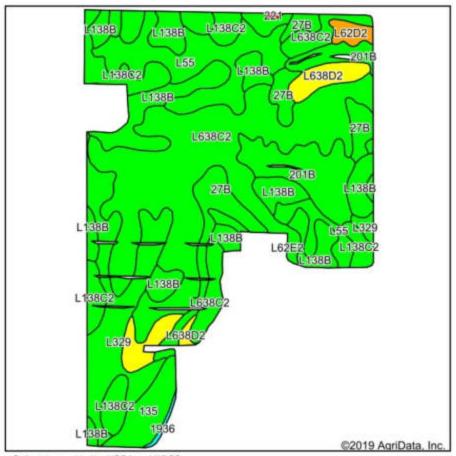
*i Yield data provided by the ISPAID Database version 8.1.1 developed by IA State University.

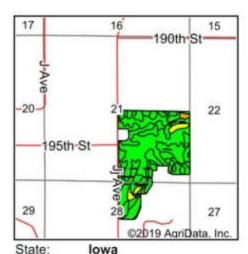
*n: The aggregation method is "Weighted Average using major components"

*c: Using Capabilities Class Dominant Condition Aggregation Method

Soils data provided by USDA and NRCS.

68724-04 Soils





State: lowa County: Hardin

Location: 21-88N-21W

Township: Ellis
Acres: 162.84
Date: 1/14/2020





Soils data provided by USDA and NRCS.

Code	Soil Description	Acres	Percent of field	CSR2 Legend	Non-Irr Class *c	*i Corn	*i Soybeans	CSR2**	CSR	*n NCCPI Soybeans
L638C2	Clarion-Storden complex, Bemis moraine, 6 to 10 percent slopes, moderately eroded	53.01	32.6%		Ille	0	0	75		61
L138B	Clarion loam, Bemis moraine, 2 to 6 percent slopes	22.75	14.0%		lle	220.8	64	88		79
L329	Webster-Nicollet complex, Bemis moraine, 0 to 3 percent slopes	18.38	11.3%		llw.	. 0	. 0	89		81
L55	Nicollet loam, 1 to 3 percent slopes	17.42	10.7%		le	0	0	91		83
201B	Coland-Terril complex, 2 to 5 percent slopes	12.24	7,5%		llw	208	60.3	80	69	90
27B	Terril loam, 2 to 6 percent slopes	11,49	7.1%		lle	224	65	87	84	81
L138C2	Clarion loam, Bemis moraine, 6 to 10 percent slopes, moderately eroded	11.08	6.8%		llle	0	0	83		60
L638D2	Omsrud-Storden complex, Bernis moraine, 10 to 16 percent slopes, moderately eroded	6.61	4.1%		IVe	0	0	53		58
135	Coland clay loam, 0 to 2 percent slopes, occasionally flooded	5.33	3.3%		llw	198.4	57.5	76	80	78
L62D2	Storden loam, Bemis moraine, 10 to 16 percent slopes, moderately eroded	1.60	1.0%		iVe	0	0	41		60
L95	Harps clay loam, Bemis moraine, 0 to 2 percent slopes	1.25	0.8%		Ilw	0	0	75		76
L507	Canisteo clay loam, Bernis moraine, 0 to 2 percent slopes	1.19	0.7%		llw	. 0	0	87		79
1936	Coland-Spillville-Hanlon complex, channeled, 0 to 2 percent slopes	0.36	0.2%		Vw	120	34.8	24	25	36
221	Klossner muck, 0 to 1 percent slopes	0.13	0.1%		Illw	80	23.2	32	51	88
	•			Weigh	ted Average	69.1	20	80.6	**	*n 72.3

^{**}IA has updated the CSR values for each county to CSR2.

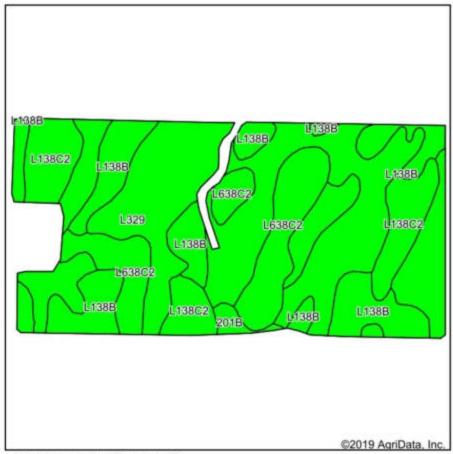
^{*-} CSR weighted average cannot be calculated on the current soils data, use prior data version for csr values.

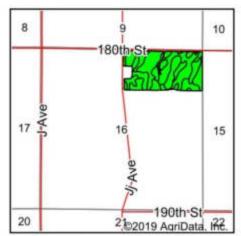
^{*}i Yield data provided by the ISPAID Database version 8.1.1 developed by IA State University.

^{*}n: The aggregation method is "Weighted Average using major components"

^{*}c: Using Capabilities Class Dominant Condition Aggregation Method

68724-05 Soils





State: lowa Hardin County:

16-88N-21W Location:

Township: Ellis Acres: 70.68 1/14/2020 Date:





Soils data provided by USDA and NRCS.

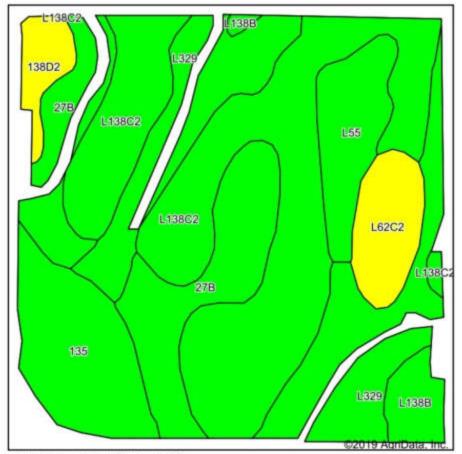
Code	Soil Description	Acres	Percent of field	CSR2 Legend	Non-Irr Class *c	*i Corn	*i Soybeans	CSR2**	CSR	*n NCCPI Soybeans
L329	Webster-Nicollet complex, Bemis moraine, 0 to 3 percent slopes	34.10	48.2%		11w	0	0	89		81
L138B	Clarion loam, Bernis moraine, 2 to 6 percent slopes	16.89	23.9%		lle	220.8	64	88		79
L638C2	Clarion-Storden complex, Bemis moraine, 6 to 10 percent slopes, moderately eroded	10.28	14.5%		Ille	0	0	75		61
L138C2	Clarion loam, Bernis moraine, 6 to 10 percent slopes, moderately eroded	8.70	12.3%		llle	0	0	83		60
201B	Coland-Terril complex, 2 to 5 percent slopes	0.71	1.0%		llw:	208	60.3	80	69	90
		-	•	Weigh	ted Average	54.9	15.9	85.9		*n 75.1

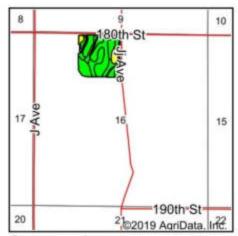
^{**}IA has updated the CSR values for each county to CSR2.

^{*-} CSR weighted average cannot be calculated on the current soils data, use prior data version for csr values.
*i Yield data provided by the ISPAID Database version 8.1.1 developed by IA State University.

^{*}n: The aggregation method is "Weighted Average using major components" *c: Using Capabilities Class Dominant Condition Aggregation Method

68724-06 Soils





State: lowa County: Hardin 16-88N-21W Location:

Township: Ellis Acres: 34.45 1/14/2020 Date:





Soils data provided by USDA and NRCS.

Code	Soil Description	Acres	Percent of field	CSR2 Legend	Non-Irr Class *c	*i Corn	*i Soybeans	CSR2**	CSR	*n NCCPI Soybeans
L138C2	Clarion loam, Bemis moraine, 6 to 10 percent slopes, moderately eroded	12.52	36.3%		llle	0	0	83		60
L329	Webster-Nicollet complex, Bemis moraine, 0 to 3 percent slopes	6.94	20.1%		Ilw	0	0	89		81
27B	Terril loam, 2 to 6 percent slopes	5.37	15.6%		lle	224	65	87	84	81
135	Coland clay loam, 0 to 2 percent slopes, occasionally flooded	3.67	10.7%		llw	198.4	57.5	76	80	78
L55	Nicollet loam, 1 to 3 percent slopes	2.25	6.5%		le	0	0	91		83
L62C2	Storden loam, Bemis moraine, 6 to 10 percent slopes, moderately eroded	1.80	5.2%		Ille	0	0	64		63
L138B	Clarion loam, Bernis moraine, 2 to 6 percent slopes	1.01	2.9%		lle	220.8	64	88		79
138D2	Clarion loam, 9 to 14 percent slopes, moderately eroded	0.89	2.6%		Ille	177.6	51.5	55	56	57
				Weig	hted Average	67.1	19.5	83	100	*n 71.6

^{**}IA has updated the CSR values for each county to CSR2.

^{*-} CSR weighted average cannot be calculated on the current soils data, use prior data version for csr values.

^{*}i Yield data provided by the ISPAID Database version 8.1.1 developed by IA State University.

^{*}n: The aggregation method is "Weighted Average using major components"
*c: Using Capabilities Class Dominant Condition Aggregation Method

Bob's East of JJ Ave

Sample Locations







5J Farms and Services Ferris Farms Bob's East of JJ Ave 111.1 acres



1532 DeWitt Ellsworth, IA 50075 Phone: 515-836-4444 ellsworth@agsource.com

SOIL ANALYSIS

Submitted by EW50014101 5J FARMS AND SERVICES 3244 CAMERON SCHOOL RD AMES, IA 50014 Submitted for **BOB BLOME**

Laboratory Sample #

AW98496 - AW98523

Date Received

Date Reported

Information Sheet #

14-Oct-2016

18-Oct-2016

1014-265

Signup Id:

Field Id: BOBS EAST OF JJ AVE

Sample	Soil	Buffer	Sol.			Phos	horus		Wet												% Ba	se Satı	ıration	
Id	рН	pН	Salt		Bray 1	Bray 2	Olsen	М3	K	K	Mg	Ca	S	Zn	Mn	Cu	Fe	В	CEC		K	Mg	Ca	Na
		1	I	%	_						— ppm			I				<u> </u>		%	%	%	%	%
1	5.9	7.1		1.7				37		129														
2	5.7	6.7		2.8				52		302														
3	5.2	6.5		3.1				64		218														
4	5.8	7.0		1.7				36		110														
5	6.5	7.2		3.2				80		218														
6	6.5	7.1		2.9				27		114														
7	7.1	6.9		2.2				36		78														
8	6.2	6.6		5.1				98		178														
9	6.9	7.1		2.1				25		126														
10	5.7	6.6		2.6				62		204														
11	6.8	6.8		2.2				38		132														
12	6.4	7.1		2.9				57		180														
13	5.7	6.6		2.9				40		152														
14	6.3	7.0		2.6				34		109														
15	5.4	6.7		2.4				52		184														
16	5.9	6.8		2.8				31		105														
17	5.6	6.9		5.1				56		100														



1532 DeWitt Ellsworth, IA 50075 Phone: 515-836-4444 ellsworth@agsource.com

SOIL ANALYSIS

Submitted by EW50014101 5J FARMS AND SERVICES 3244 CAMERON SCHOOL RD AMES, IA 50014 Submitted for **BOB BLOME**

Laboratory Sample #

AW98496 - AW98523

Date Received

Date Reported

Information Sheet #

14-Oct-2016

18-Oct-2016

1014-265

Signup Id:

Field Id: BOBS EAST OF JJ AVE

	Sample	Soil	Buffer	Sol.			Phosp	horus		Wet												% Ba	se Satı	uration	
	Id	рН	pН	Salt	ОМ	Bray 1	Bray 2	Olsen	М3	K	K	Mg	Ca	S	Zn	Mn	Cu	Fe	В	CEC	Н	K	Mg	Ca	Na
					%							— ppm							_		%	%	%	%	%
	18	5.7	6.7		4.6				52		73														
	19	6.1	7.0		4.0				27		63														
L	20	5.5	6.8		3.5				34		118														
L	21	5.3	6.6		3.0				34		120														
L	22	5.2	6.7		2.9				39		98														
L	23	5.4	6.6		3.1				37		129														
L	24	5.0	6.5		2.5				42		80														
L	25	5.4	6.6		3.0				34		99														
L	26	6.1	7.0		2.8				38		129														
L	27	5.4	6.6		2.3				42		60														

Sample Locations





5J Farms and Services Ferris Farms Kline E of JJ Ave 30.4 acres

Submitted by EW50014101 5J FARMS AND SERVICES 3244 CAMERON SCHOOL RD AMES, IA 50014

Submitted for **FERRIS FARMS**



Laboratory Sample # BG20225 - BG20230

Information Sheet # 0413-232

Date Received 13-Apr-2018

Date Reported 17-Apr-2018

Signup Id: Field Id: KLINE E OF JJ AVE

	Sample	Soil	Buffer	Sol.			Phos	ohorus		Wet												% Bas	se Satı	ıration	
	ld	рН	pН	Salt	OM	Bray 1	Bray 2		М3	K	K	Mg	Ca	S	Zn	Mn	Cu	Fe	В	CEC	Н	K	Mg	Ca	Na
L					%							— ppn									%	%	%	%	%
	1	7.4	7.3		1.7				54		165	312	2126	4	2.5					13.7	0.0			77.4	0.7
	2	5.6	6.5		2.0				37		146	204	1652	8	2.3		 			18.5	44.0			44.5	0.6
	3	5.2	6.3		2.6				48		144	219	1632	7	1.6					20.2	48.2			40.3	0.5
	4	5.2	6.2		2.5				85		173	213	1477	6	2.2					20.3	52.3			36.3	0.5
	5	5.3	6.4		2.0		·		40		137	184	1426	7	1.6					18.0	49.7	1.9	8.4	39.5	0.5
	6	5.6	6.5		2.5				49		147	240	1824	6	2.0		 		 	19.9	42.1			45.7	0.5

DISCLAIMER: Data and information in this report are intended solely for the individual(s) for whom samples were submitted. Reproduction of this report must be in its entirety. Levels listed are guidelines only. Data was reported based on standard laboratory procedures and deviations.

Sample Locations





Submitted by EW50014101 5J FARMS AND SERVICES 3244 CAMERON SCHOOL RD AMES, IA 50014 Submitted for FERRIS FARMS



Laboratory Sample # BG20213 - BG20224

Information Sheet # 0413-220

Date Received 13-Apr-2018 Date Reported 17-Apr-2018

Signup Id: Field Id: KLINE W OF JJ AVE

Sigiliup lu				_							1 1010	IG. IN	JIVE VV	0. 00	~~-										
S	ample	Soil	Buffer	Sol.			Phos	ohorus		Wet												% Ba	se Satı	uration	
	ld	рН	рН	Salt		Bray 1	Bray 2		М3	K	K	Mg	Ca	S	Zn	Mn	Cu	Fe	В	CEC	Н	K	Mg	Ca	Na
					<u>%</u>	_	I					— ppm							_		%	%	%	%	%
	1	6.1	6.7		2.3				288		437	185	1822	7	7.4					18.1	34.7			50.2	0.4
	2	7.2	7.2		2.1				184		444	312	2114	4	5.0				 	14.4	0.0		 	73.3	0.8
	3	6.7	6.9		5.6				64		218	461	3885	5	4.9					29.1	17.8		 	66.6	0.6
	4	7.7	7.4		3.9				35		179	366	5207	3	2.6					29.5	0.0		 	88.1	0.3
	5	6.2	6.7		4.7				57		187	494	3570	4	2.2					29.0	22.4	1.7	14.0	61.4	0.5
	6	5.4	6.2		3.7				98		222	312	2152	7	2.6			 		24.9	44.0		 	43.1	0.5
	7	5.4	6.1		4.7				68		180	360	2486	6	2.0			 		27.8	42.5		 	44.6	0.4
	8	5.1	6.2		3.2				57		156	219	1742	9	1.7					21.9	49.6		 	39.7	0.5
	9	6.0	6.8		2.3				54		186	294	2287	8	1.7					20.6	30.2		 	55.4	0.6
	10	5.7	6.7		2.8				47		170	284	1892	6	1.8					19.4	36.5	2.2	12.0	48.7	0.7
	11	5.3	6.4		2.6				46		152	275	1780	7	1.6					21.2	45.0		 	41.9	0.5
	12	7.9	7.4		3.3				34		184	311	4821	3	2.2			 		27.2	0.0		 	88.4	0.5

515.836.4444

Sample Locations

5J Farms and Services, LLC 3244 Cameron School Road Ames, IA 50014





5J Farms and Services Ferris Farms Red House 163.0 acres

Submitted by EW50014101 **5J FARMS AND SERVICES** 3244 CAMERON SCHOOL RD AMES, IA 50014

Submitted for **FERRIS FARMS**

18-Apr-2018



Laboratory Sample # BG20231 - BG20271

Information Sheet #

0413-238

Date Reported **Date Received**

13-Apr-2018

Signup I	d:										Field	lld: RE	D HOU	SE											
	Sample	Soil	Buffer	Sol.				ohorus		Wet												% Ba	se Satı	uration	
	ld	pН	рН	Salt	OM	Bray 1	Bray 2	Olsen	М3	K	K	Mg	Ca	S	Zn	Mn	Cu	Fe	В	CEC	Н	K	Mg	Ca	Na
					%	_						— ppm							_		%	%	%	%	%
	1	6.0	6.7		2.7				160		217	324	2240	8	4.2					21.1	31.0	2.6	12.6	53.0	0.7
	2	5.5	6.4		3.2				97		174	261	1985	7	2.2					22.1	43.0	2.0	9.7	44.8	0.5
	3	5.8	6.4		5.2				88		212	426	3059	7	3.2					28.4	31.5	1.9	12.3	53.7	0.5
	4	6.6	6.9		4.4				132		278	344	3803	6	4.2					27.5	17.6	2.6	10.3	69.0	0.4
	5	5.8	6.9		1.5				62		158	254	1679	5	2.1					16.0	31.2	2.5	13.0	52.4	0.7
	6	7.9	7.6		2.3				123		285	229	3405	7	5.5					19.8	0.0	3.7	9.5	85.8	0.8
	7	7.1	7.4		1.3				71		188	252	2357	6	3.0					14.4	0.0	3.3	14.4	81.7	0.9
	8	7.1	7.3		1.2				41		131	293	3236	3	1.4					19.0	0.0	1.8	12.7	85.0	0.3
	9	5.6	6.6		1.9				56		222	234	1693	7	1.6					18.6	40.4	3.1	10.3	45.4	0.7
	10	6.4	7.0		1.6				79		213	309	2001	6	2.5					17.1	23.2	3.2	14.9	58.4	0.5
	11	7.2	7.3		1.5				64		131	257	1543	4	2.1					10.2	0.0	3.3	20.7	75.5	0.7
<u> </u>	12	7.3	7.3		3.2				200		488	422	2766	6	10.4					18.6	0.0	6.7	18.7	74.2	0.6
<u> </u>	13	5.3	6.2		2.6				290		369	154	1268	7	5.4					19.6	56.2	4.8	6.5	32.3	0.4
<u> </u>	14	5.4	6.2		2.6				157		265	231	1597	8	3.3					21.4	50.1	3.2	8.9	37.2	0.5
	15	5.4	6.2		3.3				128		264	251	1981	8	3.1					23.4	45.8	2.9	8.8	42.2	0.5
	16	5.3	6.1		2.9				104		276	171	1337	7	2.3					20.4	56.6	3.5	6.9	32.7	0.3
	17	5.4	6.3		2.8				96		167	231	1693	6	2.7					21.1	48.7	2.0	9.0	40.0	0.4
	18	5.6	6.5		1.8				34		137	275	1830	5	1.4					19.8	40.2	1.8	11.4	46.1	0.5

DISCLAIMER: Data and information in this report are intended solely for the individual(s) for whom samples were submitted. Reproduction of this report must be in its entirety. Levels listed are guidelines only. Data was reported based on standard laboratory procedures and deviations.

Page 1 of 3

Submitted by EW50014101 **5J FARMS AND SERVICES** 3244 CAMERON SCHOOL RD AMES, IA 50014

Date Received

Submitted for **FERRIS FARMS**



Laboratory Sample # BG20231 - BG20271

Information Sheet #

0413-238

Date Reported

18-Apr-2018 13-Apr-2018

Signup Id: Field Id: RED HOUSE

Tion in New York																								
Sample	Soil	Buffer	Sol.			Phosp	horus		Wet												% Bas	se Satı	uration	
ld	рН	рН	Salt	OM	Bray 1	Bray 2	Olsen	M3	K	K	Mg	Ca	S	Zn	Mn	Cu	Fe	В	CEC	Н	K	Mg	Ca	Na
		_		%	_						— ppm							-		%	%	%	%	%
19	5.9	6.4		3.7				54		175	365	2925	4	2.1					27.0	32.6	1.7	11.1	54.1	0.5
20	5.2	6.1		3.1				91		195	216	1730	8	2.4					22.9	52.0	2.2	7.8	37.7	0.4
21	6.2	6.7		2.0				47		171	342	2435	4	1.4					21.8	28.8	2.0	12.9	55.7	0.6
22	5.6	6.4		2.8				208		299	166	1687	6	4.5					20.1	47.0	3.8	6.8	41.9	0.4
23	6.4	6.7		2.7				95		153	220	1786	4	2.8					17.5	35.9	2.2	10.3	50.9	0.4
24	6.1	6.5		3.8				180		329	377	2710	5	5.6					26.2	32.8	3.2	11.8	51.6	0.5
25	5.5	6.3		2.8				126		333	246	1829	5	3.3					22.4	45.8	3.8	9.0	40.8	0.4
26	5.6	6.2		3.1				150		282	192	1509	7	2.7					20.7	51.9	3.5	7.6	36.4	0.4
27	7.7	7.4		1.4				74		158	257	3657	4	4.3					20.8	0.0	1.9	10.1	87.7	0.4
28	5.5	6.5		2.2				44		142	220	1637	6	2.2					18.8	44.5	1.9	9.6	43.5	0.4
29	5.5	6.4		2.7				47		135	230	1840	7	2.0					21.0	45.1	1.6	9.0	43.7	0.5
30	7.6	7.4		1.7				77		188	337	2945	4	3.9					18.0	0.0	2.7	15.4	81.6	0.5
31	5.9	6.5		2.7				154		298	215	1545	7	3.3					18.7	44.9	4.1	9.5	41.2	0.5
32	6.6	6.9		2.0				78		190	305	2032	5	3.0					18.0	26.5	2.7	14.0	56.3	0.7
33	7.5	7.3		2.7				138		247	471	3323	5	4.8					21.2	0.0	3.0	18.3	78.2	0.5
34	6.6	6.9		2.4				175		278	402	1995	5	3.8					19.0	25.9	3.7	17.4	52.4	0.7
35	6.3	6.7		2.1				319		330	280	1637	7	3.5					17.8	36.0	4.7	12.9	45.9	0.6
36	7.3	7.2		4.7				120		276	320	4106	6	5.9					23.9	0.0	2.9	11.0	85.7	0.4

DISCLAIMER: Data and information in this report are intended solely for the individual(s) for whom samples were submitted. Reproduction of this report must be in its entirety. Levels listed are guidelines only. Data was reported based on standard laboratory procedures and deviations.

Page 2 of 3

515.836.4444

Submitted by EW50014101 5J FARMS AND SERVICES 3244 CAMERON SCHOOL RD AMES, IA 50014 Submitted for

FERRIS FARMS



Laboratory Sample # BG20231 - BG20271

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Sample	Soil	Buffer	Sol.			Phosp	horus		Wet												% Bas	se Satı	uration	
ld	рН	рН	Salt	OM	Bray 1	Bray 2	Olsen	М3	K	K	Mg	Ca	S	Zn	Mn	Cu	Fe	В	CEC	Н	K	Mg	Ca	Na
				%							— ppm							_		%	%	%	%	%
37	7.7	7.3		5.6				95		205	376	5130	5	4.0					29.3	0.0	1.8	10.6	87.4	0.4
38	5.5	6.3		2.7				151		288	202	1531	9	2.6					19.8	49.0	3.7	8.4	38.6	0.4
39	7.0	7.1		5.4				54		198	614	3930	5	3.6					25.3	0.0	2.0	20.0	77.5	0.5

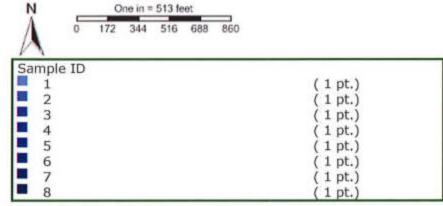
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Date: 11/28/2017 Field: EIS16NE Farm: The 80

Grower: OBerndner, Steve

Area: 73.02 ac Lat: 42.43897°N Lon: 093.29538°W



MINNESOTA VALLEY TESTING LABORATORIES, INC.

MVTL

1126 N. Front St. ~ New Ulm, MN 56073 ~ 800-782-3557 ~ Fax 507-359-2890 2616 E. Broadway Avc. ~ Bismarck, ND 58502 ~ 800-279-6885 ~ Fax 701-258-9724 1201 Lincoln Highway ~ Nevada, 1A 50201 ~ 800-362-0855 ~ Fax 515-382-3885 www.nvtl.com

MEMBER ACIL

SUBMITTED BY: 002281

SOBMITTED FOR: OBerndner, Steve

Farm: The 80

Field: EIS16NE-107392

SAMANTHA STEGMAN INNOVATIVE AG SERVICES-W 31578 CO HWY \$27 GARDEN CITY IA 50102

Date Received: Nov 1 2017

Report Date:

Work Order No: 201791-00722

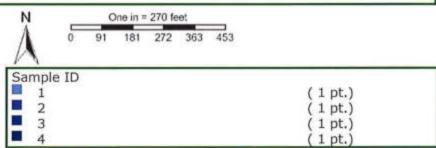
гар Ипш	Sample ID	Soi?	Buff pH	OM %	B-I P Olsen Wehr ppm P ppm ppm	Salts EC	Mehx ppm	Zn ppm	Cu ppm	В фрт	5 bbw 5	NC3 1bs	N-NH4 1bs	lbs	BrayII ppm
17-M65759 17-M65760 17-M65761 17-M65762 17-M65763	1 2 3 4 5	6.2 5.5 6.4 5.9 5.8	6.9 6.7 6.8	2.9 2.8 3.2 3.8 2.5	21 20 26 24 20		152 152 130 183 156								
17-M68764 17-M68765 17-M68766	7	6.1 5.7 6.3	6.7 6.8 7.0	5.3 2.8 2.9	35 17 20		147 118 146								



Date: 11/27/2017 Field: EIS16NW Farm: West 40

Grower: OBerndner, Steve

Area: 35.43 ac Lat: 42.43905°N Lon: 093.30280°W



MINNESOTA VALLEY TESTING LABORATORIES, INC.

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1126 N. Front St. ~ New Ulm, MN 56073 ~ 800-782-3557 ~ Fax 507-359-2890 2616 E. Broadway Ave. ~ Bismarck, ND 58502 ~ 800-279-6885 ~ Fax 701-258-9724 1201 Lincoln Highway ~ Nevada, IA 50201 ~ 800-362-0855 ~ Fax 515-382-3885 www.nvtl.com

MEMBER ACIL

SUBMITTED BY: 00228I

SUBMITTED FOR: OBerndner, Steve

Farm: West 40

Field: EIS16NW-83714

SAMANTHA STEGMAN INNOVATIVE AG SERVICES-W 31578 CO HWY S27 GARDEN CITY IA 50102

Date Received: Oct 27 2016

Report Date:

Work Order No: 201691-00474

Lab Num	Sample ID	SaiT pH	Buff pH	ом %	B-I P Olsen MehP ppm P ppm ppm	Salts EC	MehK ppm	2n ppr	Cu ppm	B B B	S ppm	Na3 1bs	A-NR4 lbs	¢? 1bs	BrayII ppm
16-M45268 16-M45269 16-M45270 16-M45271	1 2 3 4	5.8 5.7 5.6 5.7	6.6 6.3 6.2 6.2	3.1 5.0 4.7 5.1	21 35 22 47		93 130 98 144								

Manure Application Agreement
I, Steve Obecender (Land Owner), agree to furnish land for
the application of livestock manure from the confinement site owned by Ferris Pork, LLC
(Site Owner), with location of 18400 JJ Ave, Iowa Falls, IA 50126. The application cost
is as agreed upon between Land Owner and Site Owner.
This agreement shall be binding until canceled by written notice of either party.
The following parcel(s) of land in Hardin County Iowa is/are included in this agreement:
 N 1/2 NE 1/4 Sec 16 T88N R21W Ellis
 NE 1/4 NW 1/4 Sec 16 T88N R21W Ellis

This will amount to approximately 105 acres for manure application.

Land owner	×
Printed Name: Steve Obere	mder
Signed: Stever Oberda	Date: _/1-01-2017
Confinement Site owner Printed Name: Brock Ferro	
Signed: But Ferry	Date: 11-1-17

Iowa Manure Management Plan

Statement of Intent Fertilizer Acknowledgement Form

This form is required for each field contained in a Manure Management Plan that is not owned or farmed by the site owner.

Facility Name: Ferris Pork

Steven Obererde

Facility ID #: 68724

Manure from the above site may be applied to my fields that are listed below. After application takes place the actual gallons of manure per acre will indicate the units of each nutrient that were applied. I understand and recognize that this will determine if/how much additional fertilizer may be needed by the planned crop and I will not apply fertilizer above the amount allowed by the facility's manure management plan when manure has been applied.

Field Name or ID	Legal Description	County
68724-05	N 1/2 NE 1/4 Sec 16 T88N R21W Ellis	Hardin
68724-06	NE 1/4 NW 1/4 Sec 16 T88N R21W Ellis	Hardin

Farmer Name

Date

Steve Oberender

11-01-2017

Farmer Signature

Iowa Livestock Production and the Master Matrix

lowa is an agricultural state. Its economy is fueled by agriculture. According to lowa Farm Bureau, 1 out of every 5 jobs in the state is related to agriculture, and the agricultural industry gives the state an economic boost of \$112.2 billion annually. The heart of lowa agriculture is its farmers, those individuals and families working the land and tending the livestock.

Extensive research was conducted by ISU Extension evaluating livestock production and crop yields, and it was found that less than 45% of the required crop nutrients in the state are supplied by livestock manure. This research leads to the conclusion that in rural lowa, where communities and families depend on agriculture and its jobs, there is actually a need for more livestock and livestock facilities.

In Iowa, livestock production in general, and manure handling and application in particular, are heavily regulated. Some of these regulations include requiring manure storage structures be engineered and permitted, annual manure management plans be submitted and reviewed by the county and the Iowa DNR, manure application records be kept and available for review, and that periodic inspections of both records and the facility be conducted by the DNR. Additionally, the majority of manure from Iowa livestock operations is sampled for testing and the analysis used to calculate a responsible agronomic application rate.

In contrast, the commercial fertilizer used in residential neighborhoods, golf courses, municipalities, and anywhere else is unregulated in Iowa. Application rates are not required to be tied to vegetation needs, records are not required to be kept, and no application information is ever submitted or reviewed by either county personnel or a regulatory agency.

The Master Matrix is the tool used to scrutinize the location of a livestock facility of 1000 animal units or more (a large Confined Animal Feeding Operation, or CAFO). It has been in use since the early 2000's, and was developed by a panel of environmentalists, extension and university experts, producers, regulatory agents, and county officials. The Master Matrix takes into account proximity to neighbors, residential areas, other livestock facilities, surface water, and drinking and agricultural drainage wells. The proposed large CAFO must be located a safe distance from these and other sensitive areas, or it's deemed unsuitable for construction.

For those Iowa counties that have adopted its use, the Master Matrix remains the definitive tool for determining eligibility of a suitable CAFO site. Any site that scores the necessary Master Matrix points meets approval from an environmental standpoint.

APPENDIX C MASTER MATRIX

Proposed Site Characteristics

The following scoring criteria apply to the site of the proposed confinement feeding operation. Mark <u>one</u> score under each criterion selected by the applicant. The proposed site must obtain a minimum overall score of 440 and a score of 53.38 in the "air" subcategory, a score of 67.75 in the "water" subcategory and a score of 101.13 in the "community impacts" subcategory.

- **1** Additional separation distance, above minimum requirements, from proposed confinement structure to the closest:
 - * Residence not owned by the owner of the confinement feeding operation,
 - * Hospital,
 - * Nursing home, or
 - * Licensed or registered child care facility.

	Score	Air	Water	Community	
250 feet to 500 feet	25	16.25		8.75	
501 feet to 750 feet	45	29.25		17.50	
751 feet to 1,000 feet	65	42.25		22.75	
1,001 feet to 1,250 feet	85	55.25		29.75	
1,251 feet or more	100	65.00		35.00	

- (A) Refer to the construction permit application package to determine the animal unit capacity (or animal weight capacity if an expansion) of the proposed confinement feeding operation. Then refer to Table 6 of 567--Chapter 65 to determine minimum required separation distances.
- (B) The department will award points only for the single building, of the four listed above, closest to the proposed confinement feeding operation.
- (C) "Licensed child care center" a facility licensed by the department of human services providing child care or preschool services for seven or more children, except when the facility is registered as a child care home.
- (D) "Registered child development homes" child care providers certify that they comply with rules adopted by the department of human services. This process is voluntary for providers caring for five or fewer children and mandatory for providers caring for six or more children.
- (E) A full listing of licensed and registered child care facilities is available at county offices of the department of human services.
- Additional separation distance, above minimum requirements, from proposed confinement structure to the closest public use area.

	Score	Air	water	Community
250 feet to 500 feet	5	2.00		3.00
501 feet to 750 feet	10	4.00		6.00
751 feet to 1,000 feet	15	6.00		9.00
1,001 feet to 1,250 feet	20	8.00		12.00

	1,251 feet to 1,500 feet	25	10.00	15.00
~	1,501 feet or more	30	12.00	18.00

- (A) Refer to the construction permit application package to determine the animal unit capacity (or animal weight capacity if an expansion) of the proposed confinement feeding operation. Then refer to Table 6 of 567--Chapter 65 to determine minimum required separation distances.
- (B) "Public use area" a portion of land owned by the United States, the state, or a political subdivision with facilities which attract the public to congregate and remain in the area for significant periods of time. Facilities include, but are not limited to, picnic grounds, campgrounds, cemeteries, lodges, shelter houses, playground equipment, lakes as listed in Table 2 of 567--Chapter 65, and swimming beaches. It does not include a highway, road right-of-way, parking areas, recreational trails or other areas where the public passes through, but does not congregate or remain in the area for significant periods of time.
- **3** Additional separation distance, above minimum requirements, from proposed confinement structure to the closest:
 - *Educational institution
 - *Religious institution, or
 - *Commercial enterprise.

		Score	Air	Water	Community
	250 feet to 500 feet	5	2.00		3.00
	501 feet to 750 feet	10	4.00		6.00
	751 feet to 1,000 feet	15	6.00		9.00
	1,001 feet to 1,250 feet	20	8.00		12.00
	1,251 feet to 1,500 feet	25	10.00		15.00
~	1,501 feet or more	30	12.00		18.00

- (A) Refer to the construction permit application package to determine the animal unit capacity (or animal weight capacity if an expansion) of the proposed confinement feeding operation. Then refer to Table 6 of 567--Chapter 65 to determine minimum required separation distances.
- (B) The department will award points only for the single building, of the three listed above, closest to the proposed confinement feeding operation.
- (C) "Educational institution" a building in which an organized course of study or training is offered to students enrolled in kindergarten through grade 12 and served by local school districts, accredited or approved nonpublic schools, area educational agencies, community colleges, institutions of higher education under the control of the state board of regents, and accredited independent colleges and universities.
- (D) "Religious institution" a building in which an active congregation is devoted to worship.
- (E) "Commercial enterprise" a building which is used as a part of a business that manufactures goods, delivers services, or sells goods or services, which is customarily and regularly used by the general public during the entire calendar year and which is connected to electric, water, and sewer systems. A commercial enterprise does not include a farm operation.
- **4** Additional separation distance, above minimum requirement of 500 feet, from proposed confinement structure to the closest water source.

_		Score	Air	Water	Community
	250 feet to 500 feet	5		5.00	
	501 feet to 750 feet	10		10.00	
	751 feet to 1,000 feet	15		15.00	
	1,001 feet to 1,250 feet	20		20.00	

1,251 feet to 1,500 feet	25	25.00	
1,501 feet or more	30	30.00	

"Water source" - a lake, river, reservoir, creek, stream, ditch, or other body of water or channel having definite banks and a bed with water flow, except lakes or ponds without an outlet to which only one landowner is riparian.

5 Separation distance of 300 feet or more from the proposed confinement structure to the nearest thoroughfare.

	Score	Air	Water	Community
300 feet or more	30	9.00		21.00

- (A) "Thoroughfare" a road, street, bridge, or highway open to the public and constructed or maintained by the state or a political subdivision.
- (B) The 300-foot distance includes the 100-foot minimum setback plus additional 200 feet.
- **6** Additional separation distance, above minimum requirements, from proposed confinement structure to the closest critical public area.

		Score	Air	Water	Community	ĺ
50	500 feet or more	10	4.00		6.00	

- (A) All critical public areas as defined in 567--65.1(455B), are public use areas, and therefore subject to public use area minimum separation distances.
- (B) Refer to the construction permit application package to determine the animal unit capacity (or animal weight capacity if an expansion) of the proposed confinement feeding operation. Then refer to Table 6 of 567--Chapter 65 to determine minimum required separation distances.
- 7 Proposed confinement structure is at least two times the minimum required separation distance from all private and public water wells.

		Score	Air	Water	Community
(4)	Two times the minimum separation distance	30		24.00	6.00

Refer to Table 6 of 567--Chapter 65 for minimum required separation distances to wells.

- **8** Additional separation distance, above the minimum requirement of 1,000 feet, from proposed confinement structure to the closest:
 - * Agricultural drainage well,
 - * Known sinkhole, or * Major water source.

		Score	Air	Water	Community
	250 feet to 500 feet	5	0.50	2.50	2.00
	501 feet to 750 feet	10	1.00	5.00	4.00
	751 feet to 1,000 feet	15	1.50	7.50	6.00
	1,001 feet to 1,250 feet	20	2.00	10.00	8.00
	1,251 feet to 1,500 feet	25	2.50	12.50	10.00
	1,501 feet to 1,750 feet	30	3.00	15.00	12.00
	1,751 feet to 2,000 feet	35	3.50	17.50	14.00
	2,001 feet to 2,250 feet	40	4.00	20.00	16.00
	2,251 feet to 2,500 feet	45	4.50	22.50	18.00
~	2,501 feet or more	50	5.00	25.00	20.00

- (A) The department will award points only for the single item, of the three listed above, that is closest to the proposed confinement feeding operation.
- (B) "Agricultural drainage wells" include surface intakes, cisterns and wellheads of agricultural drainage wells.
- (C) "Major water source" a lake, reservoir, river or stream located within the territorial limits of the state, or any marginal river area adjacent to the state which can support a floating vessel capable of carrying one or more persons during a total of a six-month period in one out of ten years, excluding periods of flooding. Major water sources in the state are listed in Tables 1 and 2 in 567--Chapter 65.
- **9** Distance between the proposed confinement structure and the nearest confinement facility that has a submitted department manure management plan.

		Score	Air	Water	Community
32	Three-quarter of a mile or more (3,960 feet)	25	7.50	7.50	10.00

Confinement facilities include swine, poultry, and dairy and beef cattle.

- 10 Separation distance from proposed confinement structure to closest:
 - *High quality (HQ) waters,
 - * High quality resource (HQR) waters, or
 - * Protected water areas (PWA)

is at least two times the minimum required separation distance

	None within 10000 ft	Score	Air	Water	Community
100	Two times the minimum separation distance	30		22.50	7.50

- (A) The department will award points only for the single item, of the three listed above, closest to the proposed confinement feeding operation.
- (B) HQ waters are identified in 567--Chapter 61.
- (C) HQR waters are identified in 567--Chapter 61.
- (D) A listing of PWAs is available at

http://www.state.ia.us/government/dnr/organiza/ppd/prowater.htm#Location%20of%20PWA's%20in.

11 Air quality modeling results demonstrating an annoyance level less than 2 percent of the time for residences within two times the minimum separation distance.

	Score	Air	Water	Community
University of Minnesota OFFSET model results demonstrating an annoyance level less than 2 percent of the time	10	6.00		4.00

- (A) OFFSET can be found at http://www.extension.umn.edu/distribution/livestocksystems/DI7680.html . For more information, contact Dr. Larry Jacobson, University of Minnesota, (612) 625-8288, jacob007@tc.umn.edu .
- (B) A residence that has a signed waiver for the minimum separation distance cannot be included in the model.
- (C) Only the OFFSET model is acceptable until the department recognizes other air quality models.
- **12** Liquid manure storage structure is covered.

Score	Ai	r Water	Community

84	Covered liquid manure storage	30	27.00		3.00
----	-------------------------------	----	-------	--	------

- (A) "Covered" organic or inorganic material, placed upon an animal feeding operation structure used to store manure, which significantly reduces the exchange of gases between the stored manure and the outside air. Organic materials include, but are not limited to, a layer of chopped straw, other crop residue, or a naturally occurring crust on the surface of the stored manure. Inorganic materials include, but are not limited to, wood, steel, aluminum, rubber, plastic, or Styrofoam. The materials shall shield at least 90 percent of the surface area of the stored manure from the outside air. Cover shall include an organic or inorganic material which current scientific research shows reduces detectable odor by at least 75 percent. A formed manure storage structure directly beneath a floor where animals are housed in a confinement feeding operation is deemed to be covered.
- (B) The design, operation and maintenance plan for the manure cover must be in the construction permit application and made a condition in the approved construction permit.
- 13 Construction permit application contains design, construction, operation and maintenance plan for e

		Score	Air	Water	Community
\square	Emergency containment	20		18.00	2.00

- (A) The emergency containment area must be able to contain at least 5 percent of the total volume capacity of the manure storage structure.
- (B) The emergency containment area must be constructed on soils that are fine-grained and have low permeability.
- (C) If manure is spilled into the emergency containment area, the spill must be reported to the department within six hours of onset or discovery.
- (D) The design, construction, operation and maintenance plan for the emergency containment area must be in the construction permit application and made a condition in the approved construction permit.
- 14 Installation of a filter(s) designed to reduce odors from confinement building(s) exhaust fan(s).

_		Score	Air	Water	Community
	Installation of filter(s)	10	8.00		2.00

The design, operation and maintenance plan for the filter(s) must be in the construction permit application and made a condition in the approved construction permit.

15 Utilization of landscaping around confinement structure.

	Score	Air	Water	Community
Utilization of landscaping	20	10.00		10.00

The design, operation and maintenance plan for the landscaping must be in the construction permit application and made a condition in the approved construction permit. The design should contain at least three rows of trees and shrubs, of both fast and slow-growing species that are well suited for the site.

16 Enhancement, above minimum requirements, of structures used in stockpiling and composting active

	Score	Air	Water	Community
Stockpile and compost facility enhancements	30	9.00	18.00	3.00

- (A) The design, operation and maintenance plan for the stockpile or compost structure enhancements must be in the construction permit application and made a condition in the approved construction permit.
- (B) The stockpile or compost structures must be located on land adjacent or contiguous to the confinement building.

17 Proposed manure storage structure is formed

		Score	Air	Water	Community
7,3	Formed manure storage structure	30		27.00	3.00

- (A) "Formed manure storage structure" a covered or uncovered impoundment used to store manure from an animal feeding operation, which has walls and a floor constructed of concrete, concrete block, wood, steel, or similar materials. Similar materials may include, but are not limited to, plastic, rubber, fiberglass, or other synthetic materials. Materials used in a formed manure storage structure shall have the structural integrity to withstand expected internal and external load pressures.
- (B) The design, operation and maintenance plan for the formed manure storage structure must be in the construction permit application and made a condition in the approved construction permit.

18 Manure storage structure is aerated to meet departmental standards as an aerobic structure, if aera

	Score	Air	Water	Community
Aerated manure storage structure(s)	10	8.00		2.00

- (A) Aerobic structure an animal feeding operation structure other than an egg washwater storage structure which relies on aerobic bacterial action which is maintained by the utilization of air or oxygen and which includes aeration equipment to digest organic matter. Aeration equipment shall be used and shall be capable of providing oxygen at a rate sufficient to maintain an average of 2 milligrams per liter dissolved oxygen concentration in the upper 30 percent of the depth of manure in the structure at all times.
- (B) The design, operation and maintenance plan for the aeration equipment must be in the construction permit application and made a condition in the approved construction permit.

Proposed confinement site has a suitable truck turnaround area so that semitrailers do not have to

19 back into the facility from the road

_		Score	Air	Water	Community
[32]	Truck turnaround	20			20.00

- (A) The design, operation and maintenance plan for the truck turn around area must be in the construction permit application and made a condition in the approved construction permit.
- (B) The turnaround area should be at least 120 feet in diameter and be adequately surfaced for traffic in inclement weather.
- 20 Construction permit applicant's animal feeding operation environmental and worker protection violation history for the last five years at all facilities in which the applicant has an interest.

_		Score	Air	Water	Community
[48 ⁴]	No history of Administrative Orders in last five years	30			30.00

- (A) "Interest" means ownership of a confinement feeding operation as a sole proprietor or a 10 percent or more ownership interest held by a person in a confinement feeding operation as a joint tenant, tenant in common, shareholder, partner, member, beneficiary or other equity interest holder. Ownership interest is an interest when it is held either directly, indirectly through a spouse or dependent child, or both.
- (B) An environmental violation is a final Administrative Order (AO) from the department of natural resources or final court ruling against the construction permit applicant for environmental violations related to an animal feeding operation. A Notice of Violation (NOV) does not constitute a violation.
- 21 Construction permit applicant waives the right to claim a Pollution Control Tax Exemption for the life of the proposed confinement feeding operation structure.

	Score	Air	Water	Community
Permanent waiver of Pollution Control Tax Exemption	5			5.00

- (A) Waiver of Pollution Control Tax Exemption is limited to the proposed structure(s) in the construction permit application.
- (B) The department and county assessor will maintain a record of this waiver, and it must be in the construction permit application and made a condition in the approved construction permit.
- 22 Construction permit applicant can lawfully claim a Homestead Tax Exemption on the site where the OR -

the construction permit applicant is the closest resident to the proposed confinement structure.

	Score	All	water	Community	ı
Site qualifies for Homestead Tax Exemption or permit applicant is closest resident to proposed structure	25			25.00	

Proof of Homestead Tax Exemption is required as part of the construction permit application.

- (A) Applicant include persons who have ownership interests."Interest" means ownership of a confinement feeding operation as a sole proprietor or a 10 percent or more ownership interest held by a person in a confinement feeding operation as a joint tenant, tenant in common, shareholder, partner, member, beneficiary or other equity interest holder. Ownership interest is an interest when it is held either directly, indirectly through a spouse or dependent child, or both.
- Construction permit applicant can lawfully claim a Family Farm Tax Credit for agricultural land where the proposed confinement feeding operation is to be located pursuant to Iowa Code chapter 425A.

_		Score	Air	Water	Community	l
35"	Family Farm Tax Credit qualification	25			25.00	

(A) Applicant include persons who have ownership interests. "Interest" - means ownership of a confinement feeding operation as a sole proprietor or a 10 percent or more ownership interest held by a person in a confinement feeding operation as a joint tenant, tenant in common, shareholder, partner, member, beneficiary or other equity interest holder. Ownership interest is an interest when it is held either directly, indirectly through a spouse or dependent child, or both.

24 Facility size

		Score	Air	vvater	Community
✓ 1 to 2,000	animal unit capacity	20			20.00
□ 2,001 to 3,	000 animal unit capacity	10			10.00
□ 3,001 anim	al unit capacity or more	0			0.00

- (A) Refer to the construction permit application package to determine the animal unit capacity of the proposed confinement structure at the completion of construction.
- (B) If the proposed structure is part of an expansion, animal unit capacity (or animal weight capacity) must include all animals confined in adjacent confinement structures.
- (C) Two or more animal feeding operations under common ownership or management are deemed to be a single animal feeding operation if they are adjacent or utilize a common area or system for manure disposal. In addition, for purposes of determining whether two or more confinement feeding operations are adjacent, all of the following must apply:
 - (a) At least one confinement feeding operation structure must be constructed on and after May 21, 1998.

- (b) A confinement feeding operation structure which is part of one confinement feeding operation is separated by less than a minimum required distance from a confinement feeding operation structure which is part of the other confinement feeding operation. The minimum required distance shall be as follows:
- (1) 1,250 feet for confinement feeding operations having a combined animal unit capacity of less than 1,000 animal units.
- (2) 2,500 feet for confinement feeding operations having a combined animal unit capacity of 1,000 animal units or more.

Construction permit application includes livestock feeding and watering systems that significantly reduce manure volume.

		Score	Air	Water	Community	
140	Wet/dry feeders or other feeding and watering	25		12.50	12.50	
	systems that significantly reduce manure volume			12.00	12.00	

The design, operation and maintenance plan for the feeding system must be in the construction permit application and made a condition in the approved construction permit.

Proposed Site Operation and Manure Management Practices

The following scoring criteria apply to the operation and manure management characteristics of the proposed confinement feeding operation. Mark one score under each criterion that best reflects the characteristics of the submitted manure management plan.

26 Liquid or dry manure (choose only one subsection from subsections "a" - "e" and mark one

		Score	Air	Water	Community
a.	Bulk dry manure is sold under lowa Code chapter 200A and surface-applied	15		15.00	
	Bulk dry manure is sold under lowa Code chapter 200A and incorporated on the same date it is landapplied	30	12.00	12.00	6.00
		-	•		
b.	Dry manure is composted and land-applied under the				
	requirements of a department manure management	10	4.00	4.00	2.00
	plan				
	Dry manure is composted and sold so that no				
	manure is applied under the requirements of a	30	12.00	12.00	6.00
	department manure management plan				
C.	Methane digester is used to generate energy from				
-	manure and remaining manure is surface-applied	40	0.00	0.00	4.00
ш	under the requirements of an approved department	10	3.00	3.00	4.00
	manure management plan				
	č ·				

	After methane digestion is complete, manure is injected or incorporated on the same date it is landapplied under the requirements of an approved department manure management plan	30	12.00	12.00	6.00
d.	Dry manure is completely burned to generate energy and no remaining manure is applied under the requirements of a manure management plan	30	9.00	9.00	12.00
	Some dry manure is burned to generate energy, but remaining manure is land-applied and incorporated on the same date it is land-applied	30	12.00	12.00	6.00
e.	Injection or incorporation of manure on the same date it is land-applied	30	12.00	12.00	6.00

⁽A) Choose only ONE line from subsection "a", "b," "c," "d," or "e" above and mark only one score in that subsection.

- (D) Requirements pertaining to the sale of bulk dry manure under pursuant to Iowa Code chapter 200A must be incorporated into the construction permit application and made a condition of the approved construction permit.
- (E) The design, operation and maintenance plan for utilization of manure as an energy source must be in the construction permit application and made a condition in the approved construction permit.
- (F) The design, operation and maintenance plan for composting facilities must be in the construction permit application and made a condition in the approved construction permit.

27 Land application of manure is based on a two-year crop rotation phosphorus uptake level.

_		Score	Air	Water	Community
	Two-year phosphorus crop uptake application rate	10		10.00	

- (A) Land application of manure cannot exceed phosphorus crop usage levels for a two-year crop rotation cycle.
- (B) The phosphorus uptake application rates must be in the construction permit application and made a condition in the approved construction permit.
- Land application of manure to farmland that has USDA Natural Resources Conservation Service (NRCS) approved buffer strips contiguous to all water sources traversing or adjacent to the fields listed in the manure management plan.

Score Air Water Community

Manure application on farmland with buffer strips 10 8.00 2.00

(B) The application field does not need to be owned by the confinement facility owner to receive points.

⁽B) The injection or incorporation of manure must be in the construction permit application and made a condition in the approved construction permit.

⁽C) If an emergency arises and injection or incorporation is not feasible, prior to land application of manure the applicant must receive a written approval for an emergency waiver from a department field office to surface-apply manure.

⁽A) The department may request NRCS maintenance agreements to ensure proper design, installation and maintenance of filter strips. If a filter strip is present but not designed by NRCS, it must meet NRCS standard specifications.

(C) On current and future manure management plans, the requirement for buffer strips on all land application areas must be in the construction permit application and made a condition in the approved construction permit.

Land application of manure does not occur on highly erodible land (HEL), as classified by the USDA NRCS.

		Score	Air	Water	Community
32	No manure application on HEL farmland	10		10.00	

Manure application on non-HEL farmland must be in the construction permit application and made a condition in the approved construction permit.

Additional separation distance, above minimum requirements (0 or 750 feet, see below),

- **30** for the land application of manure to the closest:
 - *Residence not owned by the owner of the confinement feeding operation,
 - * Hospital,
 - * Nursing home, or
 - *Licensed or registered child care facility.

	Score	Air	Water	Community	
Additional separation distance of 200 feet	5	3.25		1.75	
Additional separation distance of 500 feet	10	6.50		3.50	

- (A) The department will award points only for the single building, of the four listed above, closest to the proposed confinement feeding operation.
- (B) Minimum separation distance for land application of manure injected or incorporated on the same date as application: 0 feet.
- (C) Minimum separation distance for land application of manure broadcast on soil surface: 750 feet.
- (D) The additional separation distances must be in the construction permit application and made a condition in the approved construction permit.
- (E) "Licensed child care center" a facility licensed by the department of human services providing child care or preschool services for seven or more children, except when the facility is registered as a child care home.
- (F) "Registered child development homes" child care providers certify that they comply with rules adopted by the department of human services. This process is voluntary for providers caring for five or fewer children and mandatory for providers caring for six or more children.
- (G) A full listing of licensed and registered child care facilities is available at county offices of the department of human services

Additional separation distance, above minimum requirements (0 or 750 feet, see below),

31 for land application of manure to closest public use area.

_		Score	Air	Water	Community
×.	Additional separation distance of 200 feet	5	2.00		3.00

- (A) "Public use area" a portion of land owned by the United States, the state, or a political subdivision with facilities which attract the public to congregate and remain in the area for significant periods of time. Facilities include, but are not limited to, picnic grounds, campgrounds, cemeteries, lodges, shelter houses, playground equipment, lakes as listed in Table 2 in 567--Dhapter 65, and swimming beaches. It does not include a highway, road right-of-way, parking areas, recreational trails or other areas where the public passes through, but does not congregate or remain in the area for significant periods of time.
- (B) Minimum separation distance for land application of manure injected or incorporated on the same date as application: 0 feet.
- (C) Minimum separation distance for land application of manure broadcast on soil surface: 750 feet.

(D) The additional separation distances must be in the construction permit application and made a condition in the approved construction permit.

Additional separation distance, above minimum requirements (0 or 750 feet, see below),

- **32** for the land application of manure to the closest:
 - * Educational institution.
 - * Religious institution, or
 - * Commercial enterprise.

_		Score	Air	Water	Community
\mathcal{H}	Additional separation distance of 200 feet	5	2.00		3.00

- (A) Minimum separation distance for land application of manure broadcast on soil surface: 750 feet.
- (B) Minimum separation distance for land application of manure injected or incorporated on same date as application: 0 feet.
- (C) The additional separation distances must be in the construction permit application and made a condition in the approved construction permit.
- (D) "Educational institution" a building in which an organized course of study or training is offered to students enrolled in kindergarten through grade 12 and served by local school districts, accredited or approved nonpublic schools, area educational agencies, community colleges, institutions of higher education under the control of the state board of regents, and accredited independent colleges and universities.
- (E) "Religious institution" a building in which an active congregation is devoted to worship.
- (F) "Commercial enterprise" a building which is used as a part of a business that manufactures goods, delivers services, or sells goods or services, which is customarily and regularly used by the general public during the entire calendar year and which is connected to electric, water, and sewer systems. A commercial enterprise does not include a farm operation.
- Additional separation distance of 50 feet, above minimum requirements (0 or 200 feet, see below), for the land application of manure to the closest private drinking water well or public drinking water well
 - OR -

well is properly closed under supervision of county health officials.

	Score	Air	Water	Community
Additional separation distance of 50 feet or well is properly closed	10		8.00	2.00

- (A) Minimum separation distance for land application of manure injected or incorporated on the same date as application or 50-foot vegetation buffer exists around well and manure is not applied to the buffer: 0 feet.
- (B) Minimum separation distance for land application of manure broadcast on soil surface: 200 feet.
- (C) If applicant chooses to close the well, the well closure must be incorporated into the construction permit application and made a condition in the approved construction permit.
- **34** Additional separation distance, above minimum requirements, for the land application of manure to the closest:
 - * Agricultural drainage well,
 - * Known sinkhole,
 - * Major water source, or
 - * Water source.

_		Score	Air	Water	Community
	Additional separation distance of 200 feet	5	0.50	2.50	2.00

	Additional separation distance of 400 feet	10	1.00	5.00	4.00	_
/ A \	IIA amia ultuma labaja ana unallalli jarahuda anufa an jatahua a sistema anal un		. f			

- (A) "Agricultural drainage wells" include surface intakes, cisterns and wellheads of agricultiral drainage wells.
- (B) "Major water source" a lake, reservoir, river or stream located within the territorial limits of the state, or any marginal river area adjacent to the state, which can support a floating vessel capable of carrying one or more persons during a total of a six-month period in one out of ten years, excluding periods of flooding. Major water sources in the state are listed in Tables 1 and 2 in 567--Chapter 65.
- (C) "Water source" a lake, river, reservoir, creek, stream, ditch, or other body of water or channel having definite banks and a bed with water flow, except lakes or ponds without an outlet to which only one landowner is riparian.
- (D) The additional separation distances must be in the construction permit application and made a condition in the approved construction permit.
- **35** Additional separation distance above minimum requirements, for the land application of manure, to the closest:
 - * High quality (HQ) water,
 - * High quality resource (HQR) water, or
 - * Protected water area (PWA).

		Score	Air	Water	Community
	Additional separation distance of 200 feet	5		3.75	1.25
~	Additional separation distance of 400 feet	10		7.50	2.50

- (A) HQ waters are identified in 567--Chapter 61.
- (B) HQR waters are identified in 567--Chapter 61.
- (C) A listing of PWAs is available at

http://www.state.ia.us/government/dnr/organiza/ppd/prowater.htm#Location%20of%20PWA's%20in

36 Demonstrated community support.

	Score	Air	Water	Community
Written approval of 100% of the property owners within a one mile radius.	20			20.00

37 Worker safety and protection plan is submitted with the construction permit application.

_		Score	Air	Water	Community
	Submission of worker safety and protection plan	10			10.00

- (A) The worker safety and protection plan must be in the construction permit application and made a condition in the approved construction permit.
- (B) The worker safety and protection plan and subsequent records must be kept on site with the manure management plan records.

Applicant signs a waiver of confidentiality allowing public to view confidential manure

38 management plan land application records

_		Score	Air	Water	Community
	Manure management plan confidentiality waiver	5			5.00

The waiver of confidentiality must be in the construction permit application and made a condition in the approved construction permit. The applicant may limit public inspection to reasonable times and places.

Added economic value based on quality job development (number of full time equivalent (FTE) positions), and salary equal to or above lowa department of workforce development median (45-2093)

- OR -

the proposed structure increases commercial property tax base in the county.

_		Score	Air	Water	Community
	Economic value to local community	10			10.00

The lowa department of workforce development regional profiles are available at

http://www.iowaworkforce.org/centers/regionalsites.htm. Select the appropriate region and then select "Regional Profile."

40 Construction permit application contains an emergency action plan.

	Score	Air	Water	Community
Emergency action plan	5		2.50	2.50

- (A) Iowa State University Extension publication PM 1859 lists the components of an emergency action plan. The emergency action plan submitted should parallel the components listed in the publication.
- (B) The posting and implementation of an emergency action plan must be in the construction permit application and made a condition in the approved construction permit.
- (C) The emergency action plan and subsequent records must be kept on site with the manure management plan records.
- 41 Construction permit application contains a closure plan.

	Score	Air	Water	Community
Closure plan	5		2.50	2.50

- (A) The closure plan must be in the construction permit application and made a condition in the approved construction permit.
- (B) The closure plan must be kept on site with the manure management plan records.

Adoption and implementation of an environmental management system (EMS)

42 recognized by the department.

_		Score	Air	Water	Community
	EMS	15	4.50	4.50	6.00

- (A) The EMS must be in the construction permit application and made a condition in the approved construction permit.
- (B) The EMS must be recognized by the department as an acceptable EMS for use with confinement operations.

Adoption and implementation of NRCS approved Comprehensive Nutrient Management

43 Plan (CNMP).

_		Score	Air	Water	Community
	CNMP	10	3.00	3.00	4.00

The implementation and continuation of a CNMP must be in the construction permit application and made a condition in the approved construction permit.

Groundwater monitoring wells installed near manure storage structure), and applicant

44 agrees to provide data to the department.

	Score	Air	Water	Community
Groundwater monitoring	15		10.50	4.50

⁽A) Monitoring well location, sampling and data submission must meet department requirements.

(B) The design, operation and maintenance plan for the groundwater monitoring wells, and data transfer to the department, must be in the construction permit application and made a condition in the approved construction permit.

	Total Score	Air	Water	Community
ĺ	445	83.5	148	213.5
	440	53.38	67.75	101.13

Score to pass

Master Matrix Design, Operation, and Maintenance Plan

Livestock Facility Name: Ferris Pork, Facility ID 68724

Master Matrix #12: Covered Liquid Manure Storage

<u>Design</u>: "Section 3 – Construction Design Standards" in the <u>Construction Design</u>
<u>Statement</u> describes in detail the design of the covered, below-ground, under-building, steel-reinforced, formed concrete manure storage structure that will be utilized by this livestock facility.

<u>Operation</u>: The floor of the livestock facility, which acts as the covering for the liquid manure storage, will be constructed of slatted concrete, the accepted industry standard for this type of livestock facility. Animal waste will be deposited into the under-building liquid manure storage through these floor slats. This valuable liquid fertilizer will then be pumped out and injected into crop fields.

<u>Maintenance</u>: After construction and throughout the life of the livestock facility, routine inspections of the covered liquid manure storage will be conducted to ensure structural integrity. Any maintenance of the covered liquid manure storage, which is expected to be minimal because of the design and the cover, will be identified during the routine inspections. Any necessary repairs will be made to ensure the covered liquid manure storage continues to function with no environmental impact.

Master Matrix #17: Formed Manure Storage Structure

<u>Design</u>: "Section 3 – Construction Design Standards" in the <u>Construction Design</u>
<u>Statement</u> describes in detail the design of the formed, below-ground, under-building, steel-reinforced, covered concrete manure storage structure that will be utilized by this livestock facility.

<u>Operation</u>: The floor of the livestock facility, which acts as the covering for the liquid manure storage, will be constructed of slatted concrete, the accepted industry standard for this type of livestock facility. Animal waste will be deposited into the under-building liquid manure storage through these floor slats. This valuable liquid fertilizer will then be pumped out and injected into crop fields.

Maintenance: After construction and throughout the life of the livestock facility, routine inspections of the formed liquid manure storage will be conducted to ensure structural integrity. These will include routine inspections around the perimeter of the livestock facility, with close attention paid to the concrete sidewalls of the formed manure storage structure. Also, during manure pumpout and application, observations will be made as the manure level decreases, making it more conducive to visually inspecting the interior of the concrete manure storage. Any necessary repairs will be made to ensure the formed liquid manure storage continues to function with no environmental impact.

Master Matrix #19: Truck Turnaround

<u>Design</u>: The livestock facility will be designed with an adequate turnaround area for feed trucks, trucks with livestock trailers, and other heavy equipment so that backing up onto the public thoroughfare won't be necessary (see attached site map). After being suitably packed and prepped, the turnaround area will be surfaced with layered drive rock to a thickness necessary to support trucks and other heavy equipment in all types of conditions.

<u>Operation</u>: The livestock facility's truck turnaround will be operated in such a way as to minimize potential risk to drivers on the public thoroughfare, since the need to back up onto the roadway will be eliminated. The turnaround will be safer for drivers on the roadway, truck and heavy equipment operators at the facility, and animals being transported to and from the facility.

<u>Maintenance</u>: Drive rock will be added to the turnaround as necessary to ensure support of trucks and heavy equipment at the facility in all types of conditions.

Master Matrix #25: Wet/Dry Feeders

<u>Design</u>: "Wet/dry" feeders will be used inside the barn at the livestock facility. Because this type of feeder reduces dust, and since research has shown that the majority of odor generated from a livestock facility is attached to dust particles, wet/dry feeders will help reduce overall odor.

In addition, wet/dry feeders maximize feed efficiency, which decreases waste through the animal. This has the desirable outcome of considerably reducing the volume deposited into the liquid manure storage structure compared to using more traditional feeders.

<u>Operation</u>: The wet/dry feeders operate automatically as animals eat and drink. Daily observations by animal caretakers at the livestock facility will ensure that the feeders are operating properly.

In addition, water use is a metric that is monitored and evaluated daily. Any operational issues will be detected as part of the daily review of water consumption.

<u>Maintenance</u>: Part of the daily responsibilities of livestock facility employees will be ensuring the wet/dry feeders are adjusted and operating at an optimum level. Keeping the wet/dry feeders well-maintained will continue to reduce the volume deposited into the liquid manure storage at the livestock facility.

Additionally, animal health and growth (thus profit) are strongly associated with water and feed, providing a strong motivation for the livestock facility employees to ensure wet/dry feeders are functioning properly, with no feed and water waste.

Master Matrix Additional Details and Explanations Proposed New Livestock Facility Confinement, Unincorporated Area

Livestock Facility Name: Ferris Pork, Facility ID 68724

Animal Unit Capacity: 1996

Master Matrix #2

The minimum separation distance requirement from the proposed livestock facility to the closest **public use area** is **2,500**°. Since there are no public use areas located within **4,001**° of the proposed livestock facility, the score on <u>Item #2</u> is **30**.

Master Matrix #3

The minimum separation distance requirement from the proposed livestock facility to the closest **educational institution**, **religious institution**, **or commercial enterprise** is **1,875**°. Since there are none of these establishments located within **3,376**° of the proposed livestock facility, the score on Item #3 is **30**.

Master Matrix #6

The minimum separation distance requirement from the proposed livestock facility to the closest **critical public use area** is **2,500**°. Since there are no critical public use areas located within **3,000**° of the proposed livestock facility, the score on <u>Item #6</u> is **10**.

Master Matrix #7

The minimum separation distance requirement from the proposed livestock facility to the closest **private**, **deep well** is **100**°. Since the private, deep, on-site well will be located **311**° south of the proposed livestock facility, the score on Item #7 is **30**.

There are no other public or private wells of any type near the proposed livestock facility.

Master Matrix #8

The minimum separation distance requirement from the proposed livestock facility to the closest **agricultural drainage well, known sinkhole, or major water source** is **1000**'. Since none of these features are located within **3,501**' of the proposed livestock facility, the score on <u>Item #8</u> is **50**.

Master Matrix #9

The minimum separation distance requirement from the proposed livestock facility to the closest confinement facility that has a submitted department manure management plan is 3,960°. Since the closest confinement facility that has a submitted DNR MMP is located 4,476° south, the score on Item #9 is 25.

Master Matrix #10

The minimum separation distance requirement from the proposed livestock facility to the closest **high quality waters**, **high quality resource waters**, **and protected areas** is **1000'**. Since there are none of these waters or areas within **2000'** of the proposed livestock facility, the score on <u>Item #10</u> is **30**.

Master Matrix #12

Since the proposed livestock facility's **liquid manure storage structure is covered**, the score on Item #12 is **30**.

The liquid manure storage is an engineered and reinforced concrete below-ground structure, located directly beneath the livestock confinement barn. The barn itself is constructed of wood framing, with steel siding and roofing. The floor of the confinement consists of concrete slats.

The DNR clarification of Item #12 is: "A formed manure storage structure directly beneath a floor where animals are housed in a confinement feeding operation is deemed to be covered." Therefore this proposed livestock facility has a covered liquid manure storage structure.

Master Matrix #17

Since the proposed livestock facility's manure storage structure is formed, the score on $\underline{\text{Item } #17}$ is 30.

The DNR clarification of "Formed manure storage structure" in Item #17 is: "a covered or uncovered impoundment used to store manure from an animal feeding operation, which has walls and a floor constructed of concrete, concrete block, wood, steel, or similar materials. Similar materials may include, but are not limited to, plastic, rubber, fiberglass, or other synthetic materials. Materials used in a formed manure storage structure shall have the structural integrity to withstand expected internal and external load pressures."

The manure storage structure at this proposed livestock facility will be formed and reinforced concrete. Since its design has been engineered, it will have the structural integrity necessary to withstand expected internal and external load pressures. As required, the construction design statement and construction permit include extensive design and construction details.

Master Matrix #19

Since the proposed livestock facility will have a **suitable truck turnaround area**, the score on <u>Item #19</u> is **20**.

The turnaround area will be at least 120' in diameter and will have at least 3" of gravel on a packed drive to provide an all-weather surface to support trucks in all conditions.

Master Matrix #20

Since the proposed livestock facility construction permit applicants have no history of Administrative Orders in the last five years, the score on Item #20 is 30.

Master Matrix #23

Since the proposed livestock facility construction permit applicant can claim a Family Farm Tax Credit qualification, the score of Item #23 is 25.

Ferris Pork, LLC, consisting of brothers Brock and Ben Ferris, own the livestock facility and the tract of ground on which the livestock facility is constructed. This tract of land was purchased from their grandfather, Robert Blome, who also owns the remainder of the agricultural land on which the livestock facility is constructed. Ben Ferris, grandson of Robert Blome, leases the farmland from Robert Blome, and actively farms said ground. Given this situation, the agricultural land meets the criteria in Iowa Code chapter 425A, and therefore qualifies for the Family Farm Tax Credit.

Master Matrix #24

Since the proposed livestock facility capacity will be 1,996 Animal Units, the score on Item #24 is 20.

Master Matrix #25

Since the proposed livestock facility will utilize wet/dry feeders that significantly reduce manure volume, the score on Item #25 is 25.

Master Matrix #26e

Since the proposed livestock facility will inject or incorporate manure on the same date it is land-applied, the score on Item #26e is 30.

If an emergency arises and injection or incorporation of manure is not feasible, prior to land application of manure the applicant will receive a written approval for an emergency waiver from the appropriate DNR field office to surface-apply manure.

Master Matrix #29

Since no manure from proposed livestock facility will be applied to Highly Erodible Land as classified by the NRCS, the score on Item #29 is 10.

All manure application fields are included in the original Manure Management Plan submitted with the construction permit package, and are designated as "non-HEL".

Master Matrix #31

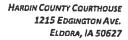
Since all manure will be injected, the minimum separation distance to a public use area is 0'. Since no public use areas are located within 200' of manure application fields in the Manure Management Plan, the score on Item #31 is 5.

Master Matrix #32

Since all manure will be injected, the minimum separation distance to educational institutions, religious institutions, and commercial enterprises is 0'. Since none of these institutions are located within 200' of manure application fields in the Manure Management Plan, the score on Item #32 is 5.

Master Matrix #35

Since all manure will be injected, the minimum separation distance to HQ water, HWR water, PWA is 0'. Since none of these waters or areas are located within 400' of manure application fields in the Manure Management Plan, the score on Item #35 is 10.





HARDIN COUNTY Employee Change of Status Report

Please enter the following change(s) as of _		_	
	Date		
Name: Mary Nelson		Department: Comn	n Serv
Address:		Position: Fr Club C	
3 -	=	Salary/Hourly Rate: _	
City State	Zip Code		
Fund: 0001 62 4611 000 10100		_	
Status: Full-time Permanen	it Part-time	Temporary/Seasonal Part	-time
Reason of Change:			
Hired Resignation			
☐ Promotion ☐ Retirement			
☐ Demotion ☐ Layoff			
Pay Increase Discharge			
Leave of Absence			
Other: furlough due to COVID19. \ to reopen the program.	Nill return to	o employment when a da	ate can be set
Dates of Employment: to	To	Last Day of Work	5/8/20
Beyond the last day of work, the following v	acation time v		to
		From	То
Authorized by: Ann and	lun_	>	5/11/20
Elected Official or	Department Head		Date
Authorized by:			
Board of Su	pervisors		Date



HARDIN COUNTY Employee Change of Status Report

Please enter the followi	ng change(s) as of _	05/26/2020 Date	_		
Name: Paul Martin			Department:IF	RVM	
Address: 313 East W	/alnut Street			dside Vegetation	Specialist
Conrad	IA	50621	Salary/Hourly R	tate: \$20.00/ho	ur
City	State	Zip Code	_ , ,	_	
Fund: 24 - Weed Co	mmissioner/IRVM		_		
Status: X Full-time	e Permaner	nt Part-time	Temporary/Seasona	al Part-time	
Reason of Change:	□ D ::				
	Resignation Retirement				
Demotion	Layoff				
Pay Increase	Discharge				
Leave of Absence _			_		
Other: 25 cents per l	Dates hour raise after 6 r	month probati	ionary period and 50 c	ents per hour ra	aise
after passing of requ	uired certifications				
Dates of Employment:	05/26/2020 to _	To	Last Day of Wo	ork	
Beyond the last day of v	work, the following	vacation time v	vas (or will be paid):		
				From	То
Authorized by:					
, <u> </u>	Elected Official or	Department Head		Date	;
Authorized by:					
	Board of S	upervisors		Date	;



HARDIN COUNTY Employee Change of Status Report

Please enter the following	g change(s) as of _	05/18/2020	_	
		Date		
Name: Cole Birchmie	r		Department:	Secondary Roads
Address: 23465 D Ave	enue		Position: Hea	vy Equipment Operator
Radcliffe	IA	50230		Rate: _\$21.39/hr
City	State	Zip Code		
Fund: 20000 - Second	dary Road Fund		_	
Status: X Full-time	Permaner	nt Part-time	Temporary/Season	nal Part-time
Reason of Change:				
X Hired	Resignation			
Promotion	Retirement			
	Layoff			
Pay Increase	☐ Discharge			
Leave of Absence	_			
Other: 25 cent per ho	Dates ur raise after 6 m	onth probatio	nary period	
Dates of Employment: _	05/18/2020 to	Т-		/ork
			(if applicable)	
Beyond the last day of w	ork, the following	vacation time w	vas (or will be paid):	From To
Authorized by:				
, <u> </u>	Elected Official or	Department Head		Date
Authorized by:				
•	Board of S	upervisors		Date