

Wednesday, April 15, 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.

- 1. 9:00 A.M. Call To Order Courthouse Large Conference Room
- 2. Pledge Of Allegiance
- 3. Approval Of Agenda
- 4. Approval Of Minutes

Documents:

04-08-2020 MINUTES.PDF

5. Approval Of Claims For Payment

Documents:

VENDOR PUBLICATION REPORT 4-15-20.PDF

- 6. Utility Permits & Secondary Roads Department
- 9:02 A.M. Public Hearing Road Vacation Select Streets And Alleys Of Cleves Documents:

CLEVES RD VACATION DEED MAP.PDF

8. Resolution To Vacate Select Streets And Alleys Of Cleves

Documents:

CLEVES RESOLUTION TO VACATE A ROAD.PDF

- 9. Secondary Roads Hours
- 10. Receipt Of Animal Feeding Operation Construction Permit Tri-B Site, Section 8, Alden/Hardin Township
- 11. Set Time And Date For Public Hearing Tri-B Site, Section 8, Alden/Hardin Township
- 12. Receipt Of Animal Feeding Operation Construction Permit Ferris Pork Site, Section 13, Ellis Township

Documents:

FERRIS PORK 2020 EXPANSION CONSTRUCTION PACKAGE.PDF

- 13. Set Time And Date For Public Hearing Ferris Pork Site, Section 13, Ellis Township
- 14. Loan Agreement For Radcliffe Legion Rebuild

Documents:

RADLIFFE LEGION POST 317 LOAN-AGREEMENT.PDF

15. Recorder's Monthly Report

Documents:

RECORDER MONTHLY REPORT.PDF

16. Proclamation - Child Abuse Prevention Month

Documents:

2020 CAP MONTH PROCLAMATION.PDF

17. Employment Statement Of Understanding - Central Iowa Community Services

Documents:

STATEMENT OF UNDERSTANDING HARDIN 4.1.2020.PDF

- 18. Public Comments
- 19. Other Business
- 20. Adjournment/Recess
- 21. 9:30 A.M. Drainage VIEW REGULAR DRAINAGE MEETING AGENDA Courthouse Large Conference Room
- 22. 10:30 A.M. Work Session With IGHCP Re: Life Insurance And Open Enrollment Courthouse Large Conference Room

HARDIN COUNTY BOARD OF SUPERVISORS MINUTES – APRIL 8, 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 Supervisor Reneé McClellan; and Taylor Roll, Jessica Sheridan, Michael Pearce, Machel Eichmeier, Dave McDaniel, Angela De La Riva, Thomas Craighton, Matt Jones, Donna Juber, Bob Juber, Darrell Meyer, Mariah Lynne, Julie Duhn, Lori Kadner, Curt Groen, Micah Cutler, Justin Ites, and Angela Silvey. Supervisor BJ Hoffman was absent.

The Pledge of Allegiance was recited.

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

McClellan moved, Granzow seconded to approve the minutes of April 1, 2020. Motion carried.

McClellan moved, Granzow seconded to approve the April 8, 2020 claims for payment. Motion carried.

McClellan moved, Granzow seconded to approve Hardin County Utility Permit Application 20-014, submitted by Midland Power Cooperative. Motion carried.

McClellan moved, Granzow seconded to approve Hardin County Utility Permit Application 20-015, submitted by Midland Power Cooperative. Motion carried.

McClellan moved, Granzow seconded to set May 6, 2020 at 9:05 a.m. for the first consideration of Amendment #4 to Ordinance No. 29 – Hardin County Zoning Ordinance of 1999. Full text of the amendment can be viewed on the Zoning Department section of the Hardin County website. Motion carried.

McClellan moved, Granzow seconded to approve sending the tax suspension list to the Department of Human Services for 2020/2021 payable tax year. Motion carried.

McClellan moved, Granzow seconded to approve the Wellmark waiver of cost-share for COVID-19 treatment. Motion carried.

McClellan moved, Granzow seconded to table the approval of the Iowa Governmental Health Care Plan New Business Benefits and Rates until the IGHCP work session scheduled at 11:00 a.m. Motion carried.

McClellan moved, Granzow seconded to table the approval of the agreements with Wellmark Blue Cross & Blue Shield until the same 11:00 a.m. meeting. Motion carried.

McClellan moved, Granzow seconded to approve the Auditor's Monthly Report for March 2020. Motion carried.

McClellan moved, Granzow seconded to approve the Sheriff's Monthly Report for March 2020. Motion carried.

COVID-19 Update:

Thomas Craighton, Emergency Management Coordinator, stated his team is working with health care facilities and the Regional Medical Coordination Center to get bed counts and movement of patients between the hospital and nursing homes. Craighton addressed the issue of staff IDs which, while not mandatory at present, would be required if checkpoints are implemented. Hardin County still has only one COVID-19 case to date.

Public Comments:

Donna Juber thanked Granzow and McClellan for providing a visual example of social distancing.

Julie Duhn commented that the Zoom link to the Board meetings should be posted with the online agenda. Angela Silvey, Board Secretary, stated that it is the FBI's recommendation not to include remote meeting links on a public website.

County Treasurer Machel Eichmeier advised that the latest date to pay property taxes without penalty is now April 30, 2020.

Other Business:

Duhn asked when two CAFO applications will appear on the Board's agenda. The Board is aware of one application, and receipt will be acknowledged at next week's meeting.

McClellan moved, Granzow seconded to recess. Motion carried.

At 11:00 a.m. the Board returned from recess for a work session regarding the transition to IGHCP. The meeting was held electronically due to public health risks. In attendance: Supervisors Granzow and McClellan; and Denise Ballard, IGHCP; Michael Pearce; Becca Junker; Machel Eichmeier; Lori Kadner; Linn Adams; and Angela Silvey. Supervisor Hoffman was absent.

Questions on the Wellmark/IGHCP rate sheet were addressed, after which the following actions were taken:

McClellan moved, Granzow seconded to approve the IGHCP New Business Benefits and Rates. Motion carried.

McClellan moved, Granzow seconded to approve the agreements with Wellmark Blue Cross & Blue Shield. Motion carried.

Discussion was held on the County's dental plan starting 07/01/2020, with Blue Dental, Employee Benefits System, and Delta Dental being the options available. McClellan moved, Granzow seconded to continue with Blue Dental as the County's dental plan with administration provided by IGHCP. Motion carried.

Discussion was held on the County's vision plan, with Avesis, VSP, i-MED, and DeltaVision presented as options. McClellan moved, Granzow seconded to go to VSP Plan B for the County's vision benefit starting 07/01/2020. Motion carried.

Life insurance was discussed, with the Board choosing between VOYA and Lincoln policies. Granzow and McClellan agreed to table a decision. IGHCP will prepare an analysis of VOYA and Lincoln policies to be presented at a future meeting.

Discussion was held on whether the County would maintain its three-tiered health insurance program, consisting of single, two-person, and family plans, or switch to a two-tiered program, offering single and family plans only.

To ensure everyone on the plan experiences a better cost structure, including those potentially converting from two-person to family plans, Ballard proposed increasing the single rate, decreasing the family rate, and providing readjusted rates to the Board.

At 12:14 p.m. McClellan moved, Granzow seconded to recess until 12:45 p.m. Motion carried.

At 12:48 p.m. McClellan moved, Granzow seconded to reconvene the IGHCP work session. Motion carried. Also present: Denise Ballard, Becca Junker, Jessica Sheridan, Machel Eichmeier, Lori Kadner, and Angela Silvey. Supervisor Hoffman was absent.

Ballard presented updated single and family rates. Despite adjustments, employees on the twoperson HMO plan will see a \$5 increase to their monthly premium contribution.

Granzow stated that if the County adopts a two-tiered program, spouses who are both employed by the County or by County-insurance-covered entities should be allowed to apply for two single

plans, which current policy does not allow. Payroll and Benefits Manager Becca Junker advised an amendment to policy and/or the employee handbook will be necessary.

McClellan moved, Granzow seconded to approve the 2020 rates as presented by IGHCP for non-tobacco and tobacco policies for single and family coverage as follows. Motion carried.

IGHCP N	<u>ON TOBACCO</u>		
То	tal Premium	Employee Rate	Employee %
Single	\$804.71	\$72.42	9%
Family	\$1661.28	\$149.52	9%
IGHCP T	<u>OBACCO</u>		
То	tal Premium	Employee Rate	Employee %
Single	\$804.71	\$160.94	20%
Family	\$1661.28	\$332.26	20%
-			

Junker brought up the matter of engagement meetings with employees and the IGHCP team. She will work with IGHCP to set up dates and times for such meetings.

The Board scheduled a follow-up meeting for Wednesday, April 15, 2020 at 10:30 a.m. to make a decision on life insurance and to set a date for IGHCP open enrollment.

McClellan moved, Granzow seconded to adjourn at 1:30 p.m. Motion carried.

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

	• • • • • • • •
Alliant Energy	\$1,424.93
Amsterdam Printing & Litho	\$214.29
Angela De La Riva	\$43.20
Ashley Edmund	\$161.50
Builders FirstSource	\$41.97
Campbell Supply Co	\$26.62
Casey's General Store	\$20.34
Central Iowa Distr Inc	\$989.00
Central Iowa Fabrication	\$16.20
CenturyLink	\$61.12
Cintas Corporation	\$435.47
City of Alden	\$29.56
City of Eldora	\$50.31
City of Iowa Falls	\$57.08
City of Radcliffe	\$68.86
Clapsaddle-Garber Assoc	\$2,049.00
Culligan	\$533.40
Dan R. Dye, O.D.	\$75.00
Danko Emergency Equipment	\$403.01
Eldora Hardware	\$220.57
Equipment Blades	\$1,686.55
Fareway Stores	\$366.52
Fast Lane Motor Parts LLC	\$78.97
Fastenal	\$107.76
Galls Incorporated	\$352.92
GATR of Des Moines, Inc	\$472.71
Hardin Co Solid Waste & Recycl	\$3,045.50
Hardin Co Tire & Service Inc	\$871.24
Heart of Iowa	\$3,219.38
IFADC	\$8,809.75
Innovative Ag Services	\$1,210.76
Iowa County Attorneys Assoc	\$537.00
IP Pathways	\$153.75
Jane A. Smith	\$8.50
JPZ Products	\$146.25
Krogh-Oppold Feed & Supply	\$148.65
Linn Adams	\$40.00
Marla Kay Williams	\$273.90
Martin Marietta Aggregate	\$1,165.61
McFarland Clinic	\$284.00
McKesson Medical Surgical	\$54.24
Mend Correctional Care PLLC	\$10,417.52
Metal Culverts, Inc.	\$19,896.20
Mid-America Publishing Corp	\$741.12
Midwest Wheel Companies	\$238.34
NAPA Auto Parts	\$633.00
NAPA Auto Parts	\$1,126.41
Omnicare Inc	\$356.77
O'Reilly Auto Parts Inc	\$34.99
•	
Polk County Treasurer	\$184.77 \$140.70
Premier Office Equipment	\$119.79 \$1.275.00
Quaker Security LLC	\$1,275.00
Radcliffe Telephone Co	\$313.57
Reliable1	\$198.56
Shane's Collision & Auto Body	\$275.65
Shield Pest Control	\$255.00
Sioux Sales Company	\$244.35
Sirchie Fingerprint Labs	\$67.50
Stephens-Peck, Inc	\$100.00
Summit Food Service LLC	\$3,212.91
Times Citizen	\$473.12
US Bank Equipment Finance	\$4,317.81
Veridian Credit Union	\$269.27
Verizon Wireless	\$320.08
VISA	\$729.63
WahlTek Inc	\$2,520.00
Wesley Wiese	\$40.00
William J Hoffman	\$399.15
Wilson Restaurant Supply Inc	\$85.60
Windstream	\$327.50
Youth Shelter Care of North	\$1,446.15

Grand Total

\$80,575.15

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

Cleves Plat

PROPOSED VACATED / DEEDS TO STREETS & ALLEYS



Moreno, Oslel

Peoples Savings Bank

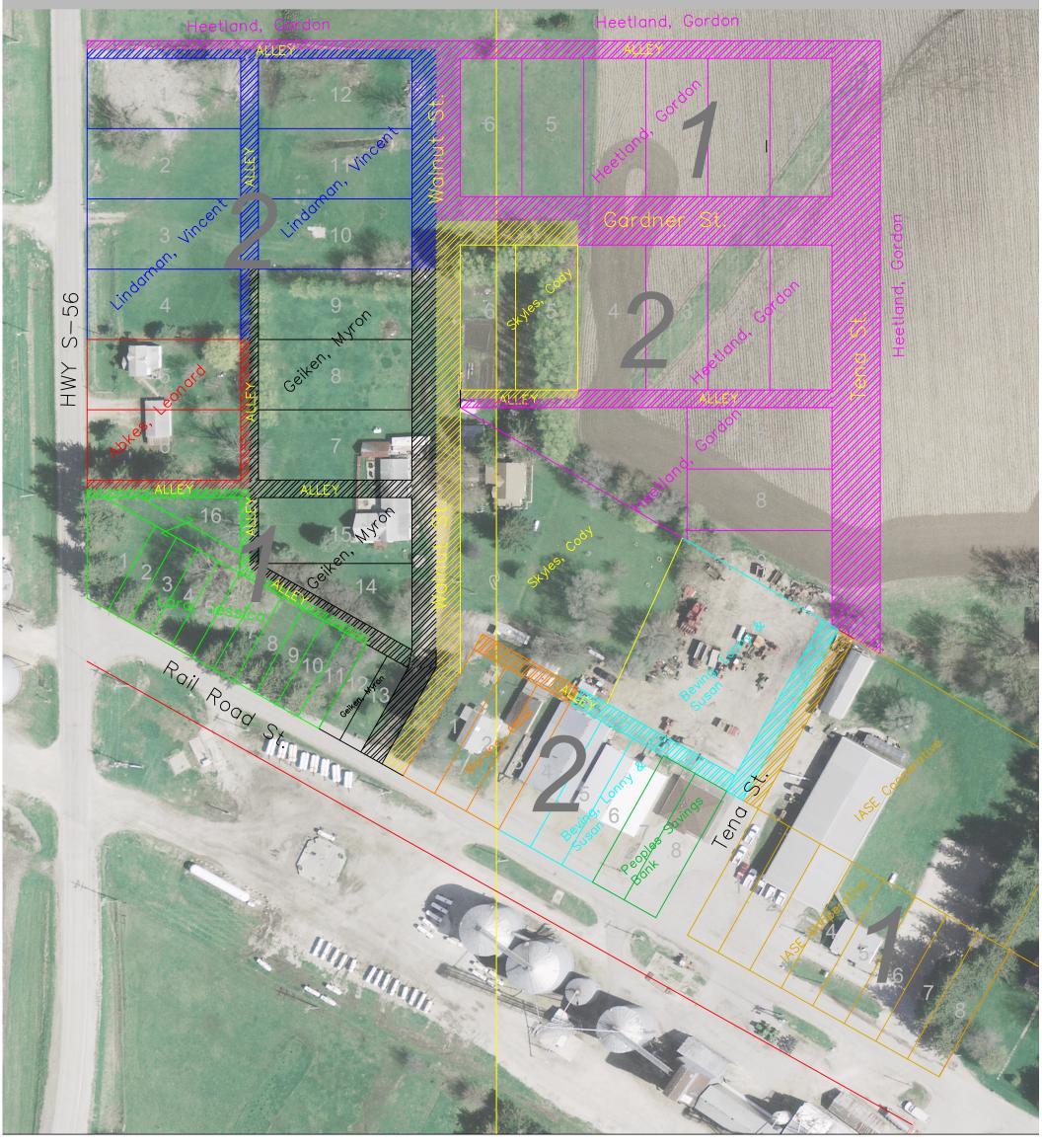
IASE Cooperative

Heetland, Gordon

Beving, Lonny & Susan

NOTE:

Vacated alleys and streets will be deeded (given) to the adjacent land owner. Proposed ownership of the vacated alleys and streets are represented with diagonal colored hashing.



RESOLUTION TO VACATE A COUNTY ROAD Hardin County Resolution No. ______ 2020-____

<u>WHEREAS</u>, A public hearing was conducted on April 15th, 2020 following publication and service of notice as required by law on the proposed vacation and closure of a portion of street in Cleves, Iowa, described as follows:

Gardner Street, laying between Walnut Street and Tena Street, located in King's 2nd Addition in the unincorporated town of Cleves, Iowa.

A 16-foot-wide alley lying northerly of the adjacent to lots 1 through 6, Block 1, located in King's 2nd Addition, in the unincorporated town of Cleves, Iowa.

A 16-foot-wide alley lying southerly of the adjacent to lots 1 through 6, Block 2 between Walnut Street and Tena Street, located in King's 2nd Addition, in the unincorporated town of Cleves, lowa.

Tena Street, located in King's 2nd Addition, in the unincorporated town of Cleves, lowa.

Tena Street, except the South 132 foot, located in Bunjer's Addition, in the unincorporated town of Cleves, Iowa.

Walnut Street, located in King's Addition, in the unincorporated town of Cleves, lowa.

A Sixteen-foot-wide alley running North and South through Blocks 1 and 2, located in King's Addition, in the unincorporated town of Cleves, Iowa.

A Sixteen-foot-wide alley lying northerly of adjacent to lots 1 and 12, Block 2, located in King's Addition, in the unincorporated town of Cleves, Iowa.

A Sixteen-foot-wide alley lying southerly of the adjacent to lots 6 & 7, Block 2, located in Kings Addition, in the unincorporated town of Cleves, lowa.

A Sixteen-foot-wide alley lying southerly of the adjacent to lots 14, Block 1, located in Kings Addition, in the unincorporated town of Cleves, Iowa.

A Sixteen-foot-wide alley lying northernly of the adjacent to lots 1 through 8, Block 2, located in Bunjer's Addition, in the unincorporated town of Cleves, Iowa

WHEREAS, No objections have been received, either in writing or by persons present.

<u>NOW, THEREFORE BE IT RESOLVED</u> by the Hardin County Board of Supervisors that the subject section be ordered vacated and closed.

Passed and adopted this 15th day of April, 2020.

Lance Granzow Chairperson County Board of Supervisors

ATTEST:

Jessica Lara Hardin County Auditor Date



Construction Permit Application Form Confinement Feeding Operations

INSTRUCTIONS:

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.

THIS APPLICATION IS FOR:

- 1. A new confinement feeding operation
- 2. X An existing confinement feeding operation (answer all of the following questions):
 - a) Facility ID No. (5 digit number): 68724
 - b) Date when the operation was first constructed: Jan 2015
 - c) Date when the last construction, expansion or modification was completed: Jan 2015

(Not needed if the confinement operation has previously received a construction permit from DNR.)

d) Is this also an ownership change? 🗌 Yes 🔀 No

If yes box is checked additional fees apply. See page 8

ITEM 1 – LOCATION AND CONTACT INFORMATION (See page 17 for instructions and an example):

A)	Name of oper	ation: Ferris	s Pork				
	Location:	SW NE 16		T88-R21	Ellis	Hardin	
	-	(1/4 1/4)	(1/4)	(Section)	(Tier & Range)	(Name of Township)	(County)
B)	Applicant info	rmation:					
	Name: Broc	k Ferris on beł	nalf of Ferris	Pork, LLC	Title:	Owner	
	Address: 21	828 J Ave, low	va Falls, IA 50)126			
	Telephone:	641-640-0226	Fa	x:	Email:		
C)	Person to con	tact with quest	tions about t	his application	(if different than applie	cant):	
	Name: Del J	lohnston, 5J Fa	irms and Ser	vices, LLC	Title:	Consultant	
	Address: 82	27 Lafayette Av	ve, Story City	, IA 50248			
	Telephone:	515-450-4871	Fa	ix:	Email:	del@5jfarms.net	

Enclose aerial photo or engineering drawing showing the proposed location of the confinement feeding operation structure¹ and all applicable separation distances, as requested in Attachment 1 (pages 11-12 or 14-15). See example of aerial photo on pages 18 to 19, at the end of this form.

I manage or am the majority owner of another confinement feeding operation located within 2,500 feet of the proposed site. Please contact the DNR AFO Program staff at (712) 262-4177 to verify site adjacency requirements.

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.

ITEM 2 – SITING INFORMATION:

- A) Karst Determination: Go to DNR AFO Siting Atlas at http://programs.iowadnr.gov/maps/afo/. Agree to the disclaimer, then 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:
 - X 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).
- Alluvial Soils Determination: Go to the AFO Siting Atlas as described above. Make sure the alluvial layer box is checked on the B) map legend. 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.
 - X 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:
 - X 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.
 - X 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.

ITEM 3 – OPERATION INFORMATION:

- A construction permit is required prior to any of the following: A)
 - 1. Constructing or modifying any unformed manure storage structure³, or constructing or modifying a confinement building that uses an unformed manure storage structure³.
 - 2. X 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 3. 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.
 - 4. 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.
 - 6. 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:
 - 1. The confinement feeding operation uses an unformed manure storage structure³ or egg washwater storage structure;
 - 2. The confinement feeding operation includes only confinement buildings and formed manure storage structures² and has an AUC of 1,000 AU or more.
 - Installing a permanent manure transfer piping system, unless the department determines that a construction permit is 8. not required.

³ Unformed manure storage structure = covered or uncovered anaerobic lagoon, earthen manure storage basin, aerobic earthen structure. 10/2014 cmc 2

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

manure storage pit, is proposed to be built 100' north of the current barn of identical dimensions.

No 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 structure¹ is or would be located, has adopted a 'Construction Evaluation Resolution' (CER). Select the one that best describes your confinement feeding operation:
 - 1. A new confinement feeding operation proposed in a county that has adopted a CER.
 - 2. X An existing operation constructed on or after April 1, 2002, in a county that has adopted a CER.
 - 3. An existing operation constructed prior to April 1, 2002, with a current or proposed AUC of <u>1,667 AU or more</u>, in a county that has adopted a CER.
 - 4. 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:
 - 1. 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.
 - 2. A swine farrow-to-finish operation with an AUC of 5,400 AU or more.
 - 3. A cattle confinement feeding operation (including dairies) with an AUC of 8,500 AU or more.
 - 4. Other confinement feeding operations with an AUC of 5,333 AU or more.
 - 5. X This is not a qualified operation because:
 - a. \mathbf{X} It is below the limits shown on boxes 1 to 4.
 - b. 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 (FACTO	R) = AUC				
Animal Species	a) Existing AUC (Before permit)					UC		
	(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		Noto: If the "Evicti	
Boars		0.4			0.4		Note: If the "Existing AUC" (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) ir	n 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 pro	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

	a) Existing AWC		b) Proposed AWC			
Animal Species	(Before 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)

ITEM 5 – SUBMITTAL REQUIREMENTS Checklists No. 1 or 2 (pages 10-15) describe the submittal requirements, which are based on the type of confinement feeding operation structure¹ and AUC proposed. To determine which checklist to use, choose the option that best describes your confinement feeding operation:

- **Formed manure storage structures**²: The proposed confinement feeding operation structure¹ will be or will use a formed A) manure storage structure². Check one of the following boxes:
 - A swine farrowing and gestating operation with an AUC of 1,250 AU or more. Use Submittal Checklist No. 2 (page 13). 1.
 - A swine farrow-to-finish operation with an AUC of 2,750 AU or more. Use Submittal Checklist No. 2 (page 13). 2.
 - 3. A cattle confinement feeding operation (including dairies) with an AUC of 4,000 AU or more. Use Submittal Checklist No. 2 (page 13).
 - 4. Other confinement feeding operations with an AUC of 3,000 AU or more. Use Submittal Checklist No. 2 (page 13).
 - None of the above. Use Submittal Checklist No. 1 (page 10). 5.

If any of boxes 1 to 4 are checked, the operation meets the threshold requirements for an engineer⁴ and a Professional Engineer (PE), licensed in Iowa, is required. For these cases, use Submittal Checklist No. 2 (page 13).

If you checked box 5, your operation is below threshold requirements for an engineer⁴ and a Professional Engineer (PE) is not required. Use Submittal Checklist No. 1 (page 10).

Unformed manure storage structure³: The proposed confinement feeding operation structure¹, will be or will use an B) unformed manure storage structure³ or an egg washwater storage structure. A Professional Engineer (PE) licensed in Iowa must design and sign the engineering documents for any size of operation. Use Submittal Checklist No. 2 (page 13) and Addendum "A" (page 16).

ITEM 6 – SIGNATURE:

I hereby certify that the information contained in this application is complete and accurate.

Signature of Applicant(s): Junk Ferrito D	Date:
---	-------

26-March-2020

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 fees 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.)

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.

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 Iowa. Please refer to Checklist No. 2 (pages 13-15). 10/2014 cmc 5 DNR Form 542-1428

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	City/State	Zip
Brock Ferris	21828 J Ave	Iowa Falls, IA	50126
Ben Ferris	19706 JJ Ave	Iowa Falls, IA	50126

For each name above, please list below all other confinement feeding operations <u>in Iowa</u> in which that person has an interest. Check box "**None**", below, if there are no other confinement feeding operations in Iowa in which the above listed person(s) has or have an interest.

Operation Name	Location (¼ ¼, ¼, Section, Tier, Range, Township, County)	City
X None [There are no other co	nfinements in Iowa in which the above listed person(s) has or have an intere	est].

I hereby certify that the information provided on this form is complete and accurate.

Signature of Applicant(s):

Drock Ferris

Date: 26-March-2020

Manure Storage Indemnity Fee Form for Construction Permits

Credit fees to: Ferris Pork, LLC

Name of operation: 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. <u>Note</u>: 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 AU) x (\$ 0.15 per AU) = \$ 120.00

• <u>Example 2</u>: 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:

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:

(3,500 AU) x (\$ 0.20 per AU) = \$ 700.00

• **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)	x	Fee per AU	Indemnity Fee
Less than 1,000 AU	1	Poultry		х	\$ 0.04 =	
	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
	5	Poultry		х	\$ 0.08 =	
3,000 AU or more	6	Other		х	\$ 0.20 =	

Filing Fees Form for Construction Permits

Credit fees to: Ferris Pork, LLC

Name of operation: Ferris Pork

INSTRUCTIONS:

- If the operation is applying for a construction permit enclose a payment for the following:
 Construction application fee \$250.00.
 (Note: This fee is non-refundable)
- 2. A manure management plan must be submitted with a filing fee.
 - Manure management plan filing fee \$250.00 (Note: This fee is non-refundable)
- 3. If this is a change in ownership then indemnity fees must also be paid on the current (existing) total AUC at the appropriate rate on page 7.

Indemnity fee due to ownership c	hange	\$
----------------------------------	-------	----

4.	Total filing fees: Add the fees paid in items 1, 2 and 3 (above): \$	\$500.00
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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 Ferris on beha	alf 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)	

Documents being submitted to the county:

- Construction permit application form: submit items 1 to 9 (see Submittal Checklist No. 1 or 2)
- X Attachment 1 Aerial photos: Must clearly show the location of the proposed confinement feeding operation structure¹ and that all the separation distances are met, including those claimed for points in the master matrix (if applicable).
- X Attachment 2 Statement of design certification, submit any of the following (see Checklist No. 1 or 2):
 - X Construction Design Statement form
 - Professional Engineer (PE) Design Certification form
 - Engineering report, construction plans and technical specifications
 - In addition, if proposing an unformed manure storage structure³ or an egg washwater storage structure submit documentation required in Addemdum "A" of this construction application form.
- X Attachment 3 Manure management plan.

X Attachment 4 - Master Matrix (if required). You must include supporting documents (see Checklist No. 1 or 2)

THIS SECTION IS RESERVED FOR THE COUNTY

As soon as DNR receives a construction permit application, the DNR will fax your County Auditor a "Courtesy reminder letter" explaining what actions your County Board of Supervisors must complete and the deadlines.

Public Notice is required for <u>all</u> construction permit applications, including those applications not required to be evaluated with the master matrix and applications in counties not participating in the Master matrix.

Counties participating in the master matrix: the county's master matrix evaluation and county's recommendation is required for the following cases:

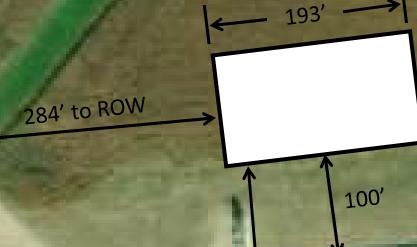
- A new confinement feeding operation that is applying for a construction permit
- An existing confinement feeding operation that was first constructed on or after April 1, 2002 that is applying for a construction permit.
- An existing confinement feeding operation that was first constructed prior to April 1, 2002 that is applying for a construction permit with an animal unit capacity (AUC) is 1,667 animal units (AU) or more.

I have read and acknowledge the county's duty with this construction permit application, as specified in 567 IAC 65.10 and Iowa Code 459.304. On behalf of the Board of Supervisors for:

COUNTY:	
NAME:	
TITLE:	
	(Member of the County Board of Supervisors or its designated official/employee)
Date:	, 20 .
If you do	not receive the courtesy reminder letter within a reasonable time, or if you have any questions, please of

If you do not receive the courtesy reminder letter within a reasonable time, or if you have any questions, please contact the animal feeding operations (AFO) Program at (712) 262-4177 or visit <u>www.lowaDNR.gov</u>

Ferris Pork Finisher, Facility ID 68724 Separation Distance: Site



311' to well

101' 2"

Proposed New Barn

On-site Well

Ferris Pork Finisher, Facility ID 68724 Separation Distance: Surface Water

544' to Surface Water

Ferris Pork Finisher, Facility ID 68724 Separation Distance: Residences

4722'

49551

1426'

1839'

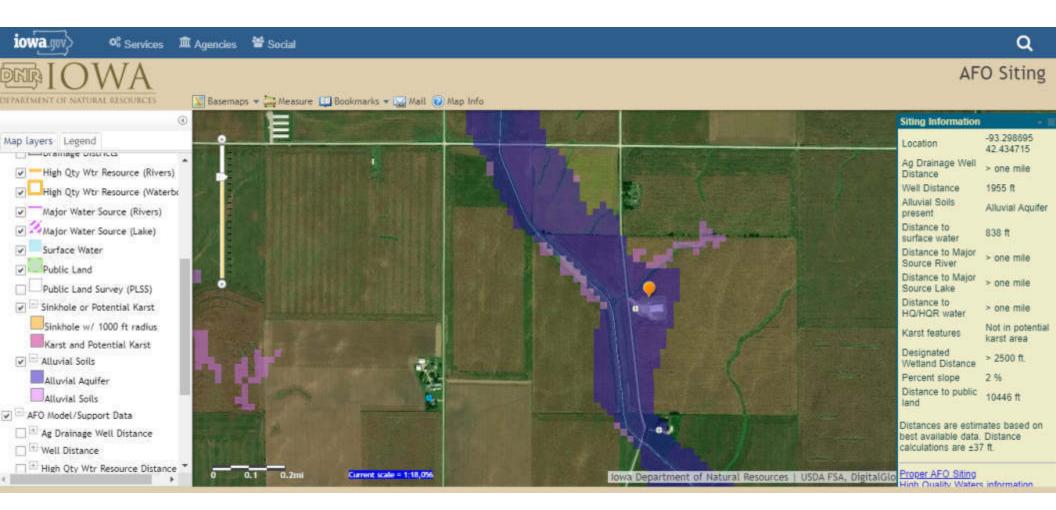
None of the following located within 1 mile

- Major Water Sources
- Public Use Areas
- School, Church, or Business
- Agricultural Drainage Wells or known Sinkholes

3252

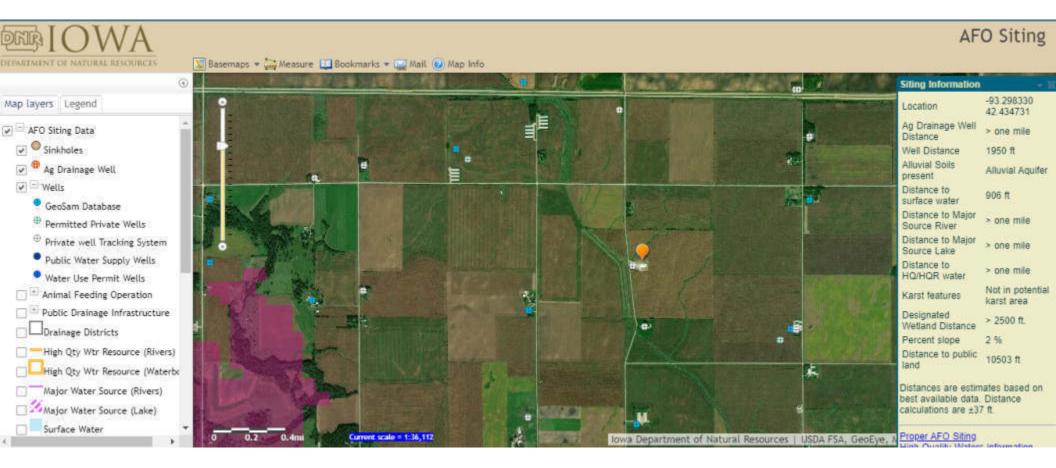
• HQ, HQR, or PWA

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



Ferris Pork Finisher, Facility ID 68724 Master Matrix Additional Separation Distance: Well

200' + 111' = 311'

Proposed New Barn

On-site Well

Ferris Pork Finisher, Facility ID 68724 Master Matrix Additional Separation Distance: CAFO



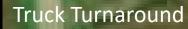
MASTER MATRIX POINTS

- No Public Use Area within 4,001'
- No School, Church, or Business within 3,376'
- No Critical Public Use Area within 3,000'
- No Ag Drainage Well, Sinkhole, or Major Water Source within 3,501'
- No Major Water Source within 2,001'
- No CAFO (MMP site) within 3,960'
- No HQ, HQR, or PWA within 2,000'

Ferris Pork Finisher, Facility ID 68724 Master Matrix Truck Turnaround

300' x 145'

Proposed New Barn



IOWA DEPARTMENT OF NATURAL RESOURCES

TO SATISFY THE PETITION OF:	DECLARATORY ORDER Number CI 2015-42-DO01
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"	

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 Department of Natural Resources: Amm Issuance Date: $12 - 14^{\circ}$, 2015. Jeff Simmons Environmental Engineer, Flood Plain Management and Dam Safety Section

CERTIFICATION OF MAILING

I hereby certify that I have this <u>15</u> day of <u>December</u>, 2015 mailed Declaratory Order Number CI 2015-42-DO01 to the Petitioner.

By _____CD



Alluvial Floodplain permit

3 messages

Del Johnston <del@5jfarms.net> To: "Petitti, Paul" <paul.petitti@dnr.iowa.gov> Thu, Mar 19, 2020 at 4:18 PM

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



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



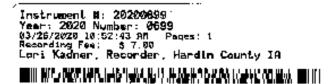
Paul Petitti P.E. | Environmental Engineer Senior Iowa Department of Natural Resources P 712-262-4177 | 1900 Grand Ave., Spencer, IA 51301 www.iowadnr.gov

[Quoted text hidden]

Del Johnston <del@5jfarms.net> To: "Petitti, Paul" <paul.petitti@dnr.iowa.gov> Thu, Mar 19, 2020 at 4:56 PM

Sounds good. New barn will be same level and 80' from current. Thanks [Quoted text hidden]

Del Johnston 515-450-4871



<u>Prepared by</u>: Del Johnston, 827 Lafayette Ave, Story City, IA, 50248, 515-450-4871. Return to: Del Johnston, 827 Lafayette Ave, Story City, IA, 50248

Weiver of Separation Distance

Steve Oberender (Granter) insides at: <u>18134 JI Ave, Iowa City, IA, 50126</u> (Property #1). <u>Ferris Pork, LLC – Brock Ferris</u> (Granter) is planning to add a barn to the existing fivestock confinement facility with formed manure storage, a capacity of 1,992 animal units, and legal description of: <u>Part of SW ½ of NE ½ Sec 16 T88N-R21W, Ellis Township, Hardin Countly, Iowa</u> (Property #2). Pursuant to lowa Code §459.202(1), a separation distance of **/97 5**^r feet is required between Property #1 and Property #2. Pursuant to Iowa Code §459.202(1), a separation distance of **/97 5**^r feet is required between Property #1 and Property #2. Pursuant to Iowa Code §459.205(2), I, the undersigned Grantor, hereby waive the enforcement of this separation distance requirement. This waiver shall apply only to the properties and facilities described in this agreement, shall be perpetual and shall run with the land.

Granted this 21 day of March, 2020

Stire Olande Grantor. Signed:

Grantez, ONTO Signed:

Pretod Name: Steve Oberender

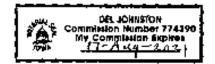
Printed Name: Brock Ferris_

State of <u>IOWA</u>, County of <u>Hardin</u>

On this 2-1	day of	March	, 202.0	, belore me, a Notary Public, personally appeared Site <u>ve Oberender</u>
		, to me kn		amed in and who executed the foregoing instrument, and acknowledged that

1

likey executed the same as their voluntary act and, deed Noter v Public Signature: Printed Rames Del Johnston My Curantissian Expires: 17-August-202

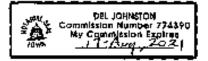


State of IOWE, County of Hardin

On this 21 day of MATCH , 202

, <u>2020</u>, before me, a Notary Public, personally appeared <u>Brock Ferris</u>

Notary Public Signature: Printed Name: Del Johnston My Commission Expires: 17-August-2021





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

Walver of Separation Distance

<u>Michael Carponler</u> (Grantor) resides at: <u>18798 JJ Ave, Jowa City, IA, 50126</u> (Property #1). <u>Ferris Pork, LLC - Brock Ferris</u> (Grantee) is planning to add a barn to the existing livestock confinement facility with formed manure storage, a capacity of <u>1,992</u> animal units, and legal description of: <u>Part of SW ½ of NE ½ Sec 16 T88N-R21W</u>, <u>Ellis Township</u>, <u>Hardin County</u>, <u>Jowa</u> (Property #2). Pursuant to lowa Code 5459-202(1), a separation distance of <u>1675</u>; Fest is required between Property 41 and Property #2. Pursuant to lowa Code 5459-202(2), a moder starage description distance of <u>1675</u>; Fest is required between Property 41 and Property #2. Pursuant to lowa Code 5459-202(2), the undersigned Grantur, hereby weive the enforcement of this separation distance requirement. This waiver shall apply only to the properties and facilities described in this agreement, shall be perpetual and shalf net.

Granted this <u>21</u> day of <u>March</u> , <u>2020</u>	
Grentor,	Signed: Reter
Frinted Name: Michael Carpenter	Printed Name: Brock Ferris
State of <u>Iowa</u> , County of <u>Hardin</u>	
Onthis 21 dayof March 2020	, before me, a Notary Public, personally appeared [W]chael Carpenter
	ramed in and who executed the foregoing instrument, and acknowledged that
they executed the same as their voluntary act and down.	
Notary Public Signsture: Duly Man-	DEL JOHNSTON
My Commission Expires: 17:August-2021	₩ Commitation Expires
State of <u>Iowa</u> , County of Hardin	
an this 21 day of March 2020	, before me, a Notary Public, personally appeared <u>Brock Ferris</u> ramed in and who executed the foregoing instrument, and acknowledged that
they executed the same as their voluntary act and deed.	
Notary Public Segnature: Del Johnston	DEL JOHNSTON
My Commission Expires: <u>17-August-2021</u>	



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:

Name of operation:	F	acility ID No.: <u>68724</u>				
Location:	SW	NE	16	T88-R21	Ellis	Hardin
	(1/4 1/4)	(1/4)	(Section)	(Tier & Range)	(Name of Townsh	ip) (County)

B) Description of the proposed formed manure storage structure³. 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 101' 2" x 193' x 8' deep, below ground, covered, formed concrete manure storage tank will be constructed.

No water lines will enter through the concrete manure storage walls and all pit fans will be mounted

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

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

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

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.

<u>Note</u>: 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.

E) Karst Determination: Go to DNR AFO Siting Atlas at <u>http://programs.iowadnr.gov/maps/afo/</u>. 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).

F) 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.

1

Brock Ferris on behalf of Ferris Pork, LLC	Drock Fernis	26-March-2020
Owner's Name (print)	Owner's Signature	Date

<u>Section 3 - Construction design standards</u>: 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.
 - A.4 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):
 - B.1 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.

B.3 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.

C) Details of the proposed design: Submit an additional completed copy of this page 3 for each formed manure storage structure³ that have <u>different</u> dimensions. Complete all of the following information:

Number of buildings: _one _____ Building name: _____swine finisher

Dimensions of proposed formed manure storage structure³

	Length	Width	Height or depth	Wall thickness	Diameter (circular tanks only)
Feet	193	101	8		
Inches		2	0	8	

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

- a. To use Tables D-1 and D-2 (on pages 7-8), backfilling of walls shall be performed with gravel, sand, silt, and clay mixtures (less than 50 percent fines), with coarse sand with silt or clay (less than 50 percent fines), or cleaner granular material (see page 9 for the unified soils classification). You will need to submit a copy of a USDA soil survey map with the proposed location of the formed manure storage structures³ clearly marked showing the unified soil classification; or a statement signed by a qualified organization or NRCS staff.
- b. X Use Tables D-3 and D-4 (on pages 8-9) if backfilling of walls will be performed with soils that are unknown or with low plasticity silts and clays with some sand or gravel (50 percent or more fines); or fine sands with silt or clay (less than 50 percent fines); or low to medium plasticity silts and clays with little sand or gravel (50 percent or more fines); or high plasticity silts and clays (see page 9 for unified soils classification). You must use Tables D-3 and D-4 if you do not submit the soils information requested in box "a", above.

Maximum spacing of steel, in inches

	Proposed vertical steel in walls [see boxes "a" and "b", above]					
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						
Grade 60, No. 4			10	9	12	
Grade 60, No. 5						

D) Aboveground tanks or partially aboveground tanks: Liquid and semi-liquid manure (check the following box):

If the proposed tank is to be constructed **aboveground or partially aboveground** and will have an external outlet or inlet below the liquid level, the tank will also be constructed according to the 567 IAC 65.15(20).

E) Steel Tanks: Certification that the tank will be constructed according to the tank manufacturer's specifications:

 Name of tank manufacturer company:

 Address:

 Telephone:

 Fax

F) Additional construction design standards:

To determine the additional requirements set forth in 567 IAC 65.15(14) that would apply to the proposed formed manure storage structure³, check any of the following 3 boxes based on the information entered on Sections 3.A or 3.B (page 2):

If you checked boxes A.1, A.2, A.3 or B.3 (on page 2) <u>all</u> of the following 15 additional requirements apply. Complete the numbered items 1 to 15 (below).

If you checked box B.1 (on page 2), only the requirements of numbered items 1, 3, 4, 5, 6, 8 and 12 apply and need to check those boxes (below).

If you checked boxes A.4 or B.2 (on page 2) and the steel tank will have a concrete floor, only the requirements of numbered items 1, 2, 3, 4, 5, 8, 9, 12, apply and need to check those boxes (below).

Additional Requirements that will be followed during construction of the formed manure storage structure(s)³:

- 1. Site preparation (check the following box):
 - The finished subgrade of a formed manure storage structure shall be graded and compacted to provide a uniform and level base and shall be free of vegetation, manure and debris. For the purpose of this subrule, "uniform" means a finished subgrade with similar soils.
- 2. Groundwater separation requirements (check one of the following boxes):
 - When the groundwater table, as determined in 65.15(7)"c," is above the bottom of the formed structure, a drain tile shall be installed along the footings to artificially lower the groundwater table pursuant to 65.15(7)"b"(2). The drain tile shall be placed within 3 feet of the footings as indicated in Appendix D, Figure D-1, at the end of this chapter and shall be covered with a minimum of 2 inches of gravel, granular material, fabric or a combination of these materials to prevent plugging the drain tile. A device to allow monitoring of the water in the drainage tile lines installed to lower the groundwater table and a device to allow shutoff of the drainage tile lines shall be installed if the drainage tile lines do not have a surface outlet accessible on the property where the formed manure storage structure is located.

In lieu of the drain tile, a certification signed by a PE², 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 <u>non</u>-removable.

- 12. Curing of concrete requirements (check the following box):
 - All concrete shall be cured for at least seven days after placing, in a manner which meets ACI 308, by maintaining adequate moisture or preventing evaporation. Proper curing shall be done by ponding, spraying or fogging water; or by using a curing compound that meets ASTM C 309; or by using wet burlap, plastic sheets or similar materials.
- 13. Construction joints and waterstops specifications (check the following box):
 - All construction joints in exterior walls shall be constructed to prevent discontinuity of steel and have properly spliced rebar placed through the joint. Waterstops shall be installed in all areas where fresh concrete will meet hardened concrete as indicated in Appendix D, Figures D-1 and D-2, at the end of this chapter. The waterstops shall be made of plastic, rolled bentonite or similar materials approved by the department.
- 14. Backfilling of walls specifications (check the following box):

Backfilling of the walls shall not start until the floor slats or permanent bracing have been installed. Backfilling shall be performed with material free of vegetation, large rocks or debris.

- Additional design requirements (check the following box, if applicable):
 A formed manure storage structure with a depth greater than 12 feet shall be designed by a PE or an NRCS engineer.
- G) Construction Certification: The person responsible for constructing the formed manure storage structure³ must sign this page. Any change(s) to the specifications of the formed manure storage structure must be first approved by DNR:

"I hereby certify that I have read and understand the minimum design and construction standards of Iowa Code chapter 459, Subchapter III, and the 567 Iowa Administrative Code (IAC) 65.15(14) "Minimum concrete standards" or 567 IAC 65 (if other than concrete)." The proposed formed manure storage structure(s)³ at the operation:

Name of operation:	County:	
Owner's name:		-

will be constructed in accordance with these minimum requirements. Included with this certification are:

Page 3, for each formed manure storage structure³ that have different dimensions

Pages 4 to 6 (applicable sections)

Other documents (specify):

Brent V Rastetter	mthatites	3-24-2020
(Print name)	(Signature)	(Date)
Quality Ag, Inc.	15481 Highway D20, Alden, IA 50006	515-859-7824, ext. 11
(Company)	(Address) (See page 6 for mailing instructions)	(Phone No.)

H) Upgraded Concrete Standards Certification: If the site is in karst according to Section 1.D (page 2) the person responsible for constructing the formed manure storage structure must also complete this section:

567 IAC 65.15(14)"c". Karst terrain - upgraded standards. If the site of the proposed formed manure storage structure is located in an area that exhibits karst terrain or an area that drains into a known sinkhole, the minimum concrete standards set forth in 65.15(14)"a" or "b" shall apply. In addition, the following requirements apply to all formed manure storage structures that store nondry or dry manure (check all of the following boxes):

(1) A minimum 5-foot vertical separation distance between the bottom of a formed manure storage structure and limestone, dolomite, or other soluble rock is required if the formed manure storage structure is not designed by a PE or an NRCS engineer. (The 5-foot separation must be a continuous profile of low permeability soil directly beneath the bottom of the formed manure storage structure.

- (2) If the vertical separation distance between the bottom of the proposed formed manure storage structure and limestone, dolomite, or other soluble rock is less than 5 feet, the structure shall be designed and sealed by a PE or an NRCS engineer who certifies the structural integrity of the structure. A 2-foot-thick layer of compacted clay soil shall be constructed underneath the floor of the formed manure storage structure. However, it is recommended that any formed manure storage structure be constructed aboveground if the vertical separation distance between the bottom of the structure and the limestone, dolomite, or other soluble rock is less than 5 feet.
- (3) In addition, in an area that exhibits karst terrain or an area that drains into a known sinkhole, a PE, an NRCS engineer or a qualified organization shall submit a soil exploration study based on the results from soil borings or test pits to determine the vertical separation between the bottom of the formed structure and limestone, dolomite, or other soluble rock. A minimum of two soil borings, equally spaced within each formed structure, or two test pits outside of each formed

structure, are required. After soil exploration is completed, each soil boring and pit shall be properly plugged with concrete grout, bentonite, or similar materials.

(4) Groundwater monitoring shall be performed as specified by the department.

(5) Backfilling shall not start until the floor slats have been placed or permanent bracing has been installed, and shall be performed with material free of vegetation, large rocks, or debris.

"I have read and understand the upgraded concrete standards of IAC 65.15(14)"c", and certify that the proposed formed manure storage structure(s)³ at the above operation will be constructed according to these standards":

(Print name)	(Signature)	(Date)
(Company)	(Address)	(Phone No.)

Section 4 - Drainage Tile Certification: Required only if applying for a construction permit and constructing three or <u>more confinement feeding operations structures</u>⁴. This section must be completed and signed by the person responsible for excavating the confinement feeding operation structure⁴:

567 IAC 65.15(1) - Drainage tile removal for new construction of a manure storage structure. Prior to constructing a manure storage structure, other than storage of manure in an exclusively dry form, the site for the animal feeding operation structure shall be investigated for drainage tile lines as provided in this subrule. All applicable records of known drainage tiles shall be examined for the existence of drainage tile lines.

c. The applicant for a construction permit for a formed manure storage structure shall investigate for tile lines during excavation for the structure. Drainage tile lines discovered upgrade from the structure shall be rerouted around the formed manure storage structure to continue the flow of drainage. All other drainage tile lines discovered shall be rerouted, capped, plugged with concrete, Portland cement concrete grout or similar materials or reconnected to upgrade tile lines. Drainage tile lines installed at the time of construction to lower a groundwater table may remain where located. A device to allow monitoring of the water in the drainage tile lines and a device to allow shutoff of the drainage tile lines shall be installed if the drainage tile lines do not have a surface outlet accessible on the property where the formed manure storage structure is located.

"I certify that I have read and understand the requirements of 567 IAC 65.15(1)"c" and that to the best of my knowledge, information and belief, the proposed confinement feeding operation structures⁴ at:

Name of operation:	County:
Owner's name:	
will not impede the drai	nage of established drainage tile lines which cross their property lines and if construction disturbs drainage
tile lines, I will take the	necessary measures to reestablish drainage and, upon completion of construction, file a statement that those
measures were taken to	reestablish drainage."

(Print name)	(Signature)	(Date)
(Company)	(Address)	(Phone No.)

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

 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:

}
• ~
<u> </u>
•

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 Manageme			m	_	
	Anim	nal Feeding Operation In	formatio	on		Pag	e 1
tructions: Complete thi	is form for	your animal feeding oper	ration. Fo	ootno	tes are prov	ided on page 4	4.
em, and my planned manur manure management plan	re manageme (MMP) and a	tachments, describes my ani ent system. I (we) will manag ny revisions of the plan, indi ns. Deviations permitted by	ge the mai vidual fiel	nure, a d infor	nd the nutrien mation, and fi	its it contains, as eld summary she	s described wit eet, and in
ned: <u>June</u>	Ferrit	Ĩ		Broc	k Ferris		26-March-2
me of operation: Ferris	Pork					y ID No.	68
ation of the operation:	18/0) JJ Ave		-		- -	
ation of the operation.		(911 address)					
	lowa			IA		50126	5
		(Town)		(State)		(Zip)	
SW 1/4 of the NE (1/4)	1/4 of Sec	16 T <u>88N</u> R <u>21</u>		Ellis			Hardin
(1/4 1/4) (1/4)	(Section) (Tier & Range)	_	(To	wnship Name)		(County)
Owner Ferris Pork, LLC		50126			Phone	641-640-0226	
Address 21828 J Ave, Io E-mail address (optional)	wa Falls, IA	00120			Call		
					- Cell	phone (optional)	
Contact person (if different	-				Phone	515-450-4871	
Address 827 Lafayette A	Ave, Story Ci	ty, IA 50248					
E-mail address (optional)					Cell	phone (optional)	
Contract company (if applic	able)				Phone		
Address							
s manure management existing operation, not expandi	ing			- of initia	g operation, new Il construction nsions		new operation
			and a	•			
Table 1. Information a	bout livest	ock production and mar			nent system		
Table 1. Information a 1	about livest	ock production and mar 3			nent system 6	7	8
1		•	nure mai	nagen		7	
1 Animal type/	2 Max # of animals	3	nure mai	nagen 5	6	7 Days/yr Facility	Annual Manu
1 Animal type/ Production phase ^a	2 Max # of animals confined	3 Manure Storage Structure ^b	nure mai	nagen 5 P₂O₅ ^c	6 gal/space/dy ^d	7 Days/yr Facility occupied	Annual Manu Produced ^e
1 Animal type/ Production phase ^a Grow/finish (wet/dry)	2 Max # of animals	3	N ^c 40.3	5 P ₂ O ₅ ^c 22.1	6 gal/space/dy ^d 0.9	7 Days/yr Facility	Annual Manu Produced ^e 1,594,944
1 Animal type/ Production phase ^a Grow/finish (wet/dry) Select production phase	2 Max # of animals confined	3 Manure Storage Structure ^b	nure mai	nagen 5 P₂O₅ ^c	6 gal/space/dy ^d	7 Days/yr Facility occupied	Annual Manu Produced ^e
1 Animal type/ Production phase ^a Grow/finish (wet/dry)	2 Max # of animals confined	3 Manure Storage Structure ^b	N ^c 40.3	5 P ₂ O ₅ ^c 22.1	6 gal/space/dy ^d 0.9	7 Days/yr Facility occupied	Annual Manu Produced ^e 1,594,944
1 Animal type/ Production phase ^a Grow/finish (wet/dry) Select production phase	2 Max # of animals confined	3 Manure Storage Structure ^b	Anure mai	5 P ₂ O ₅ ^c 22.1 0	6 gal/space/dy ^d 0.9 0.0	7 Days/yr Facility occupied	Annual Manu Produced ^e 1,594,944 000
1 Animal type/ Production phase ^a Grow/finish (wet/dry) Select production phase	2 Max # of animals confined	3 Manure Storage Structure ^b	Anure mai	5 P ₂ O ₅ ^c 22.1 0	6 gal/space/dy ^d 0.9 0.0	7 Days/yr Facility occupied 355	Annual Manu Produced ^e 1,594,944 000 000
1 Animal type/ Production phase ^a Grow/finish (wet/dry) Select production phase Select production phase	2 Max # of animals confined 4992	3 Manure Storage Structure ^b Indoor Formed	Aure mail 4 N ^c 40.3 0 0 0	P ₂ O ₅ ^c 22.1 0	6 gal/space/dy ^d 0.9 0.0	7 Days/yr Facility occupied	Annual Manu Produced ^e 1,594,944 000 000
1 Animal type/ Production phase ^a Grow/finish (wet/dry) Select production phase Select production phase imated annual animal p	2 Max # of animals confined 4992	3 Manure Storage Structure ^b Indoor Formed	Aure mai 4 N ^c 40.3 0 0 0 imals/ye	P ₂ O ₅ ^c 22.1 0 0	6 gal/space/dy ^d 0.9 0.0	7 Days/yr Facility occupied 355	Annual Manu Produced ^e 1,594,944 000 000
1 Animal type/ Production phase ^a Grow/finish (wet/dry) Select production phase Select production phase imated annual animal p	2 Max # of animals confined 4992	3 Manure Storage Structure ^b Indoor Formed	Aure mai 4 N ^c 40.3 0 0 0 imals/ye	P ₂ O ₅ ^c 22.1 0 0	6 gal/space/dy ^d 0.9 0.0	7 Days/yr Facility occupied 355	Annual Manu Produced ^e 1,594,944 000

Determining Maximum Allowable Manure Application Rates

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

Method to determine optimum crop yield^g USDA Iowa Ag Statistics County yields

DAIR

Method of application Knifed in or soil injection of liquid manure If spray irrigation is used, identify method ⁱ

Table 2. Manure nutrient concentration

Manure Nutrient Content (lbs/1000gal or lbs/ton) ^j							
Total N	40.3	P ₂ O ₅ 22.1					
%TN Available 1st year ^k	100%	2nd year		3rd year			
Available N 1st year ^l	39.5	2nd year ^m	0.0	3rd year ⁿ	0.0		

Table 3. Crop usage rates^o

Application loss factor

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

Timing of application Spr/Fall

Page 2

0.98

*Use blank space above to add crop not listed.

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

Tab	Table 4. Calculations for rate based on introgen (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 $^{ m w}$	gal/acre	5445	6711	2532	5445
8	P_2O_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_2O_5 planned $^{\gamma}$	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

13Planned manure application rategal/acre5445671125325445

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

(0-2) N-based manure management.

(>2-5) N-based manure management but P application rate cannot exceed two times the P removal rate of the crop schedule.

(>5-15) No manure application until practices are adopted to reduce P index to 5 or below.

(>15) No manure application.

ССВ

(identify this application scenario by letter)

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Manure Analysis

Submitted By 5J FARMS AND SERVICE			ted For S PORK				ate Sampl /9/2019	led					
827 LAFAYETTE AVE STORY CITY, IA 50248							ate Receiv 9-Aug-20			Laborat BP4723	ory Sample # 37	ŧ	
Account Number EW50014101								ate Repor 0-Aug-20			Informa M0816-	tion Sheet No 20	o.
Location BLNK		Sample ID	1		Live	stock Type	Hog				Handling 1	Type Liqu	iid
			Est. A	LIQU vailable Nutrient		ved, Ibs / 1000	gal)			Est. Availat	DRY Die Nutrient Cred	its (as received	d, Ibs / ton)
	Results	Nutrients as		In 1st Year		In 2nd	In 3rd	Nutrier	nts as	In 1s	In 1st Year In 2nd		In 3rd
Analysis	(as Received)	lbs/1000 gal	Injected	Incorporated*	Broadcast**	Year	Year	lbs/	ton	Incorporated*	Broadcast**	Year	Year
Total N, (TKN)	0.48 %	40.3	35.5 - 40.3	34.4 - 39.9	27.2 - 36.3	0.0	0.0	TKN	9.7	8.3 - 9.6	6.1 - 8.2	0.0	0.0
Phosphorus, P₂O₅	0.26 %	22.1	19.9 - 22.1	19.9 - 22.1	19.9 - 22.1	Residual a	ifter uptake	P ₂ O ₅	5.3	4.8 - 5.3	4.8 - 5.3	Residual a	after uptake
Potassium, K ₂ O	0.46 %	38.0	34.2 - 38.0	34.2 - 38.0	34.2 - 38.0	Residual a	ifter uptake	K ₂ O	9.1	8.2 - 9.1	8.2 - 9.1	Residual a	after uptake
Sulfur, S	0.07 %	5.5	3.0 - 5.5	3.0 - 5.5	3.0 - 5.5			s	1.3	0.7 - 1.3	0.7 - 1.3		
Dry Matter	5.69 %		•			-						•	
Moisture	94.31 %												

*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.

The Total N (TKN) values are the sum of Ammonium and Organic N. Avaiability 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.



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 Location 1/4 of the 1/4 Sec T R			Acres	Own, rent,			Planned	Application	Correct Soil
Field	Townsip Name, County Name	Mgt		receiving	agreement (include	P index			14.	Test for P^{\parallel}
Designation ^{ee}		Id^{ff}	Crop	manure ^{gg}	length of agreement) ^{hh}	value ⁱⁱ	(Y/N) ^{jj}	gal/acre	gal/field ^{kk}	(Yes or No)
60704.04	S 1/2 NE 1/4 and N 1/2 N 1/2 SE 1/4 Sec 16 T88N			101.0		0.70		6744	700044	
68724-01	R21W Ellis, Hardin County	CCB	C	104.8	Own	0.70	N	6711	703344	Yes
60724.02	S 1/2 N 1/2 SE 1/4 Sec 16 T88N R21W Ellis, Hardin	66D	6	22.4	0	0 77		E 4 4 E	476427	
68724-02	County SE 1/4 NW 1/4 and NE 1/4 SW 1/4 Sec 16 T88N	CCB	C	32.4	Own	0.77	N	5445	176427	Yes
60724.02		66D	6	12.0	0	2.05		E 4 4 E	75,000	
68724-03a	R21W Ellis, Hardin County SE 1/4 NW 1/4 and NE 1/4 SW 1/4 Sec 16 T88N	CCB	С	13.9	Own	3.95	N	5445	75689	Yes
68724-03b	R21W Ellis, Hardin County	ССВ	с	52.4	Own	0.65	N	5445	285333	Vac
68724-030	Fr SW 1/4 Sec 21 and Fr NW 1/4 of NE 1/4 Sec 28	CCB	Ľ	52.4	Own	0.05	N	5445	285333	Yes
68724-04	T88N R21W Ellis, Hardin County	ССВ	В	162.8	Own	1.02	N	2532	412215	Yes
08724-04		CCB	В	102.0	Own	1.02	IN	2332	412215	res
68724-05	N 1/2 NE 1/4 Sec 16 T88N R21W Ellis, Hardin County	ССВ	В	70.7	Easement	1.57	N	2532	179015	Yes
	NE 1/4 NW 1/4 Sec 16 T88N R21W Ellis, Hardin									
68724-06	County	CCB	В	34.5	Easement	1.27	Ν	2532	87355	Yes
L	Total agence available for more available		uliontic ::	474.5	Total colle		ا اما با	ار مسملا م	4040070	
	Total acres available for manu	re ap	plication	471.5	Total gallo	is that		e 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 Location 1/4 of the 1/4 Sec T R			Acres	Own, rent,	.		Planned	Application	Correct Soil
Field	Townsip Name, County Name	Mgt		receiving	agreement (include	P index			. kk	Test for P^{II}
Designation ^{ee}		Id^{ff}	Crop	manure ^{gg}	length of agreement) hh	value ⁱⁱ	(Y/N) ^{jj}	gal/acre	gal/field ^{kk}	(Yes or No)
68724-01	S 1/2 NE 1/4 and N 1/2 N 1/2 SE 1/4 Sec 16 T88N R21W Ellis, Hardin County	ССВ	В	104.8	Own	0.70	N	2532	265357	Yes
0072401	S 1/2 N 1/2 SE 1/4 Sec 16 T88N R21W Ellis, Hardin	CCD		104.0	0001	0.70	IN IN	2332	203337	103
68724-02	County	ССВ	С	32.4	Own	0.77	N	6711	217446	Yes
	SE 1/4 NW 1/4 and NE 1/4 SW 1/4 Sec 16 T88N									
68724-03a	R21W Ellis, Hardin County	CCB	С	13.9	Own	3.95	Ν	6711	93287	Yes
	SE 1/4 NW 1/4 and NE 1/4 SW 1/4 Sec 16 T88N									
68724-03b	R21W Ellis, Hardin County	CCB	С	52.4	Own	0.65	Ν	6711	351672	Yes
	Fr SW 1/4 Sec 21 and Fr NW 1/4 of NE 1/4 Sec 28									
68724-04	T88N R21W Ellis, Hardin County	CCB	С	162.8	Own	1.02	Ν	5445	886492	Yes
68724-05	N 1/2 NE 1/4 Sec 16 T88N R21W Ellis, Hardin County	CCB	C	70.7	Easement	1.57	Ν	5445	384981	Yes
	NE 1/4 NW 1/4 Sec 16 T88N R21W Ellis, Hardin									
68724-06	County	CCB	C	34.5	Easement	1.27	N	5445	187862	Yes
	++									
	4									
	<u> </u>									
	Į									
J	Total acres available for manu	re an	nlication	471.5	Total gallo	ns that		o annlind	2387098	
	i otal acies available for fildiful	e ap	phication	4/1.5		is that		e applieu	2307090	



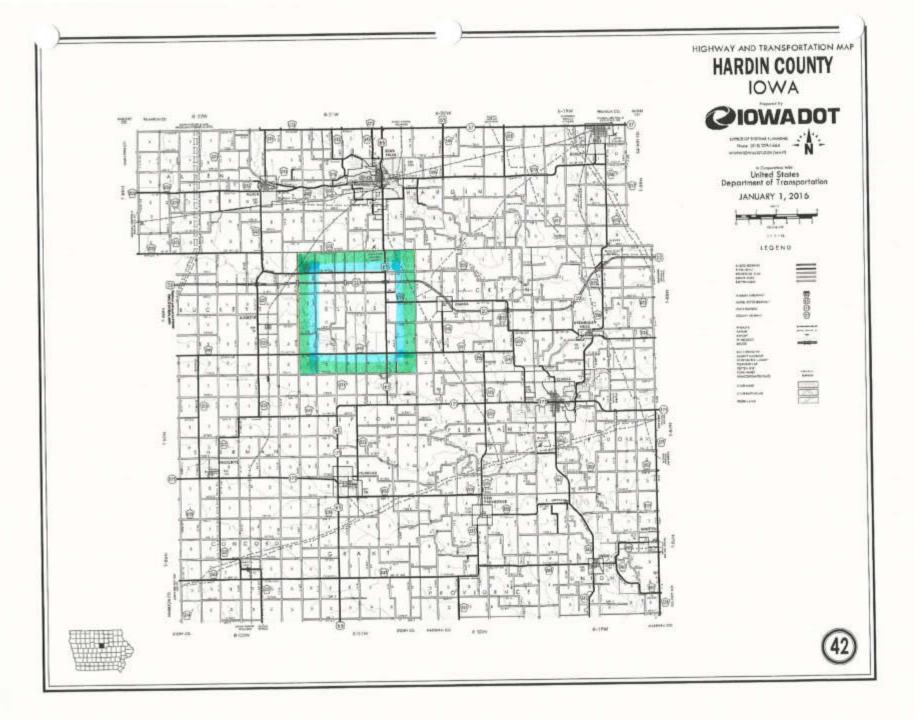
Year by Year Manure Management Plan Summary

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	Field Location 1/4 of the1/4 SecT R Townsip Name, County Name	Mgt	Planned	Acres receiving	Own, rent, agreement (include	P index		Planned	Application	Correct Soil Test for P ^{II}
Designation ^{ee}		Id^{ff}	Crop	manure ^{gg}	length of agreement) hh	value ⁱⁱ	(Y/N) ^{jj}	gal/acre	gal/field ^{kk}	(Yes or No)
68724-01	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
68724-02	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	ССВ	В	52.4	Own	0.65	N	2532	132678	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	6711	1092599	Yes
68724-05	N 1/2 NE 1/4 Sec 16 T88N R21W Ellis, Hardin County	ССВ	С	70.7	Easement	1.57	N	6711	474489	Yes
68724-06	NE 1/4 NW 1/4 Sec 16 T88N R21W Ellis, Hardin County	ССВ	С	34.5	Easement	1.27	N	6711	231540	Yes
	Total acres available for manu	re api	olication	471.5	Total gallo	ns that	could b	e applied	2619205	

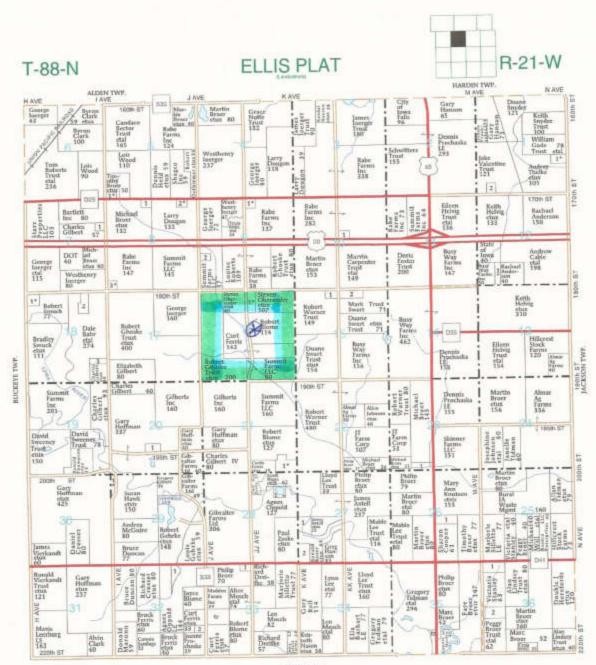




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SECTION 9 1. Hoover, Scott 6 2. Christensen Farms Midwest LLC 5 SECTION 10 1. Marchant, Roger 6 SECTION 12 1. Helvig, Keith 10 SECTION 15 1. Spilde, Scott 6

3. Gooper, Wayne 9

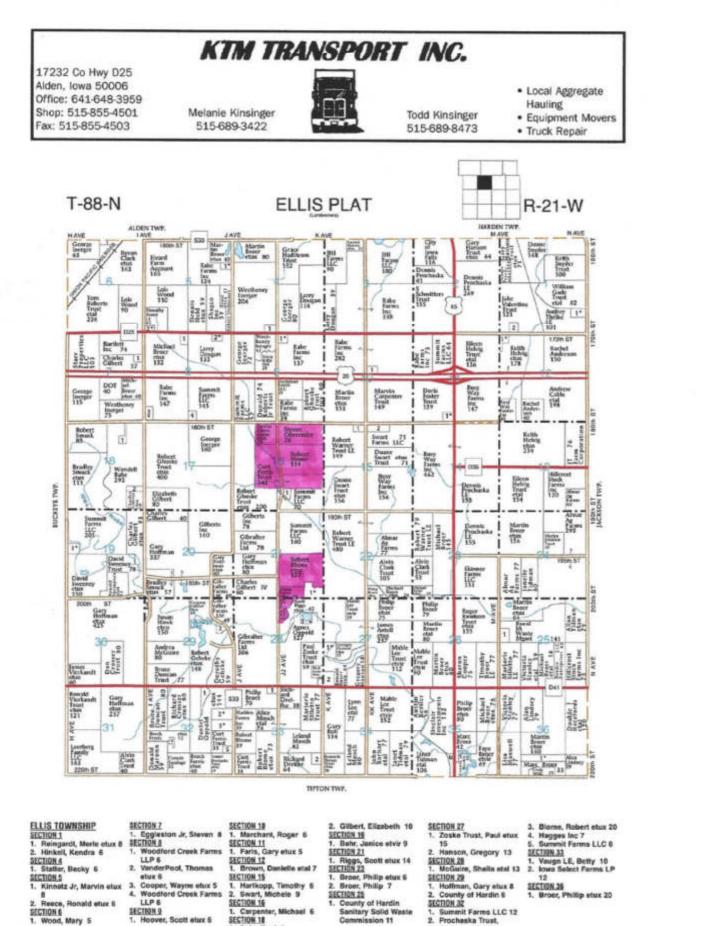
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SECTION 15 1. Fecht, James 9 SECTION 18 Thoms, James 12 2. Behr, Paul 11 3. Gilbert, Elizabeth 10 SECTION 20 1. Hottman Seed Farms Inc 8 SECTION 21 1. Riggs, Scott 14

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 1. Summit Farms LLC 12 2. Christensen Farms Midwest LLC 6 SECTION 33

1. Vaugn, Belty 10 SECTION 36 1. Broer, Victoria 13 2. Broer, Lisa 13



- Reece, Ronald etux 8 12 SECTION 6 1. Wood, Mary 5
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SECTION 0

1. Hoover, Scott etux 6

1. Bahr, Paul 6

ter, Mich el 6

1. Carpenti SECTION 18

32

1. Horman, Cary Hox e 2. County of Hardin 6 <u>SICTION 32</u> 1. Summit Farms LLC 12 2. Prochaska Trust, Joanne etvir 20

HARDIN CO., IA



Iowa Phosphorus Index

Credits: Iowa State University USDA National Soil Tilth Laboratory USDA Natural Resource Conservation Service

Field Number				Erosion				+	Runo	off	-	F Tile / S	ubsurface R	echarge =	- Overall
	Gross	Sediment		Buffer	Enrichment	STP	Erosion	RCN	STP	Р Арр	Runoff	Flow	STP	Tile/Sub	Р
	Erosion X	Trap Factor X	SDR X	Factor	x Factor x	Factor =	PI	Factor 🗙 (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

v. 1/22/2007



Info:

File: profiles\Ferris\68724-01

Inputs:

Location: USA\Iowa\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

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\Iowa\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

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\Iowa\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

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 Ioam, 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

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\Iowa\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

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\Iowa\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

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 Ioam, 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

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



Hardin County lowa



w + E s 1/14/2020



surety[®] © AgriData, Inc. 2019 AgriDataInc.com

lowa



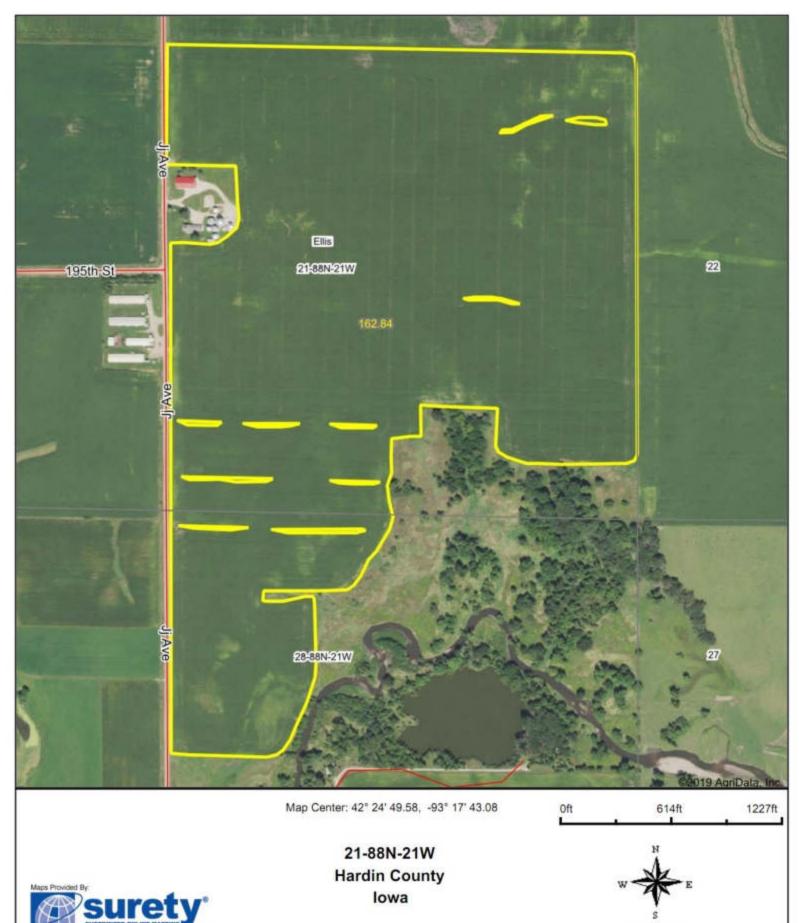


16-88N-21W Hardin County Iowa





68724-04 Boundary



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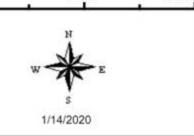
1/14/2020



Map Center: 42° 26' 19.44, -93° 17' 43.62



16-88N-21W Hardin County lowa



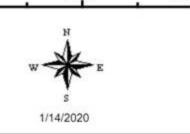
68724-06 Boundary



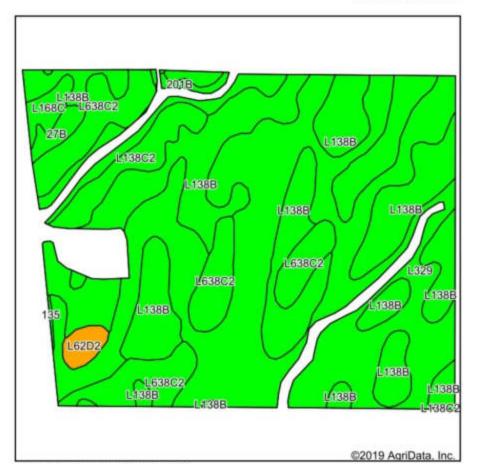
Map Center: 42° 26' 20.51, -93° 18' 10

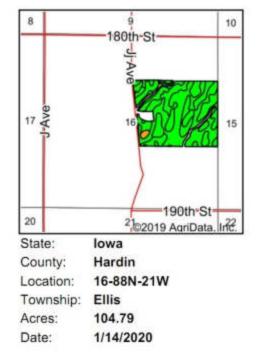


16-88N-21W Hardin County lowa



68724-01 Soils







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**		*n NCCPI Soybeans
L329	Webster-Nicollet complex, Bemis moraine, 0 to 3 percent slopes	42.51	40.6%		llw	0	0	89		81
L138B	Clarion loam, Bernis moraine, 2 to 6 percent slopes	36.20	34.5%	1	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%		łłw	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.

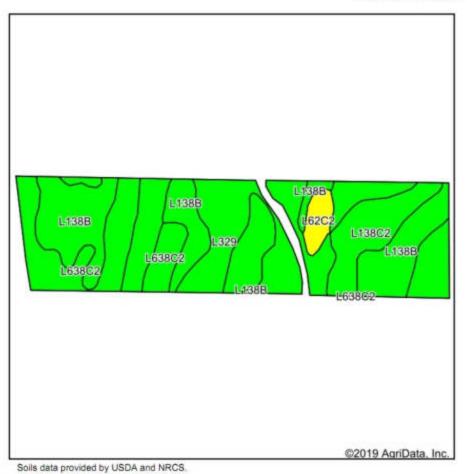
*- CSR weighted average cannot be calculated on the current soils data, use prior data version for csr values.

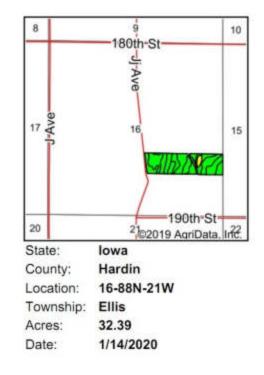
*i Yield data provided by the ISPAID Database version 8.1.1 developed by IA State University.

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

*c: Using Capabilities Class Dominant Condition Aggregation Method

68724-02 Soils





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Maps Pro

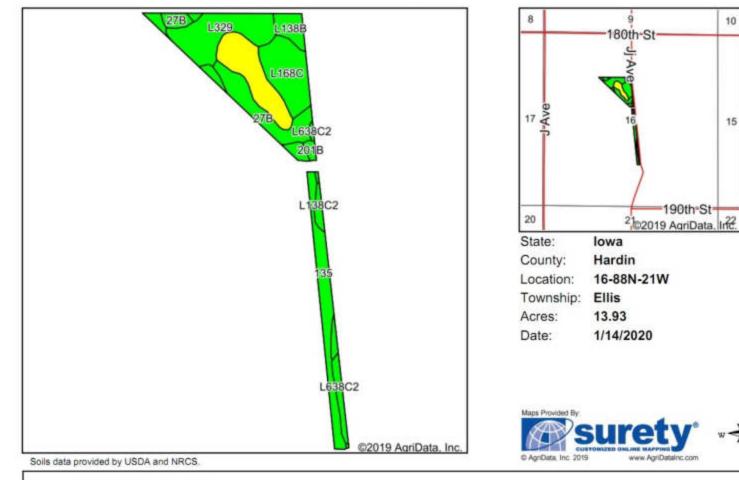
ided By

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%		Ilw	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%		llle	0	0	83	60
L62C2	Storden loam, Bemis moraine, 6 to 10 percent slopes, moderately eroded	0.95	2.9%		llle	0	0	64	63
à à	Y. Contraction of the second se	- C - C	2	Weig	hted Average	62.2	18	84	*n 72.9

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

"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

68724-03a Soils



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%		llw	0	0	89		81
135	Coland clay loam, 0 to 2 percent slopes, occasionally flooded	2.70	19.4%		ltw	198.4	57.5	76	80	78
L638D2	Omsrud-Storden complex, Bernis moraine, 10 to 16 percent slopes, moderately eroded	2.28	16,4%		ïVe	0	0	53		58
L168C	Hayden loam, Bemis moraine, 6 to 10 percent slopes	2.25	16.2%		lle	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%		llle	0	0	83		60
201B	Coland-Terril complex, 2 to 5 percent slopes	0.18	1.3%		Ilw	208	60.3	80	69	90
				Weigh	ted Average	86.2	25	76.9		*n 74

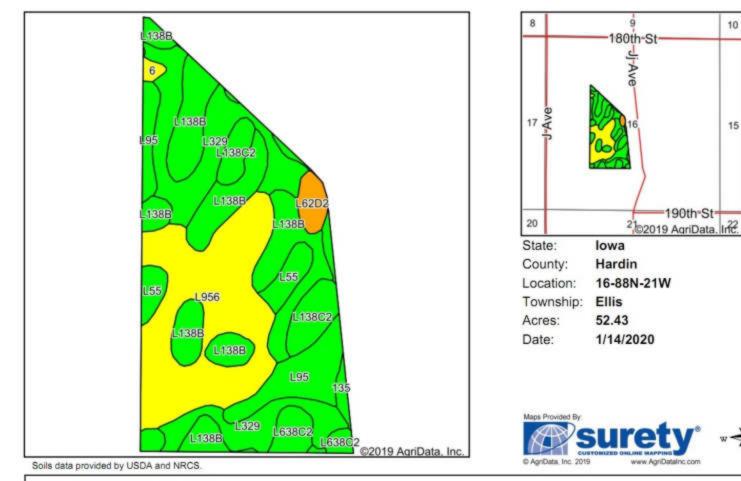
**IA has updated the CSR values for each county to CSR2.

*- 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.

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

*c: Using Capabilities Class Dominant Condition Aggregation Method

68724-03b Soils

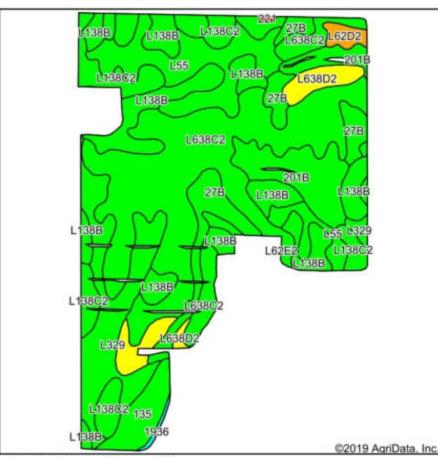


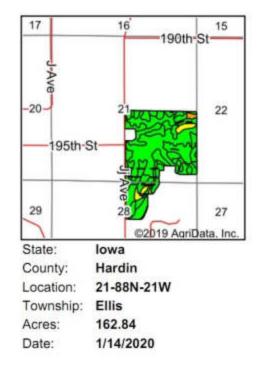
Code	Soil Description	Acres	Percent of field	CSR2 Legend	Non-Irr Class *c	*i Corn	*i Soybeans	CSR2**	CSR	*n NCCPI Soybeans
L956	Harps-Okoboji complex, Bernis moraine, 0 to 2 percent slopes	14.84	28.3%	1	llw	0	0	69		76
L138B	Clarion loam, Bernis moraine, 2 to 6 percent slopes	13.51	25.8%		lle	220.8	64	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	Ciarion 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, Bernis 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%		liiw	185.6	53.8	59	59	77
-				Weigh	ted Average	61.8	17.9	79.7	۰.	*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.
 Yield data provided by the ISPAID Database version 8.1.1 developed by IA State University.
 "In: The aggregation method is "Weighted Average using major components"
 "C Using Capabilities Class Dominant Condition Aggregation Method

68724-04 Soils







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, Bernis moraine, 6 to 10 percent slopes, moderately eroded	53.01	32.6%		llle	0	0	75		61
L138B	Clarion loam, Bernis 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%		Ilw	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, Bernis 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%		llw	0	0	75		76
L507	Canisteo clay loam, Bernis moraine, 0 to 2 percent slopes	1.19	0.7%		Ilw	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%	1	lilw	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.

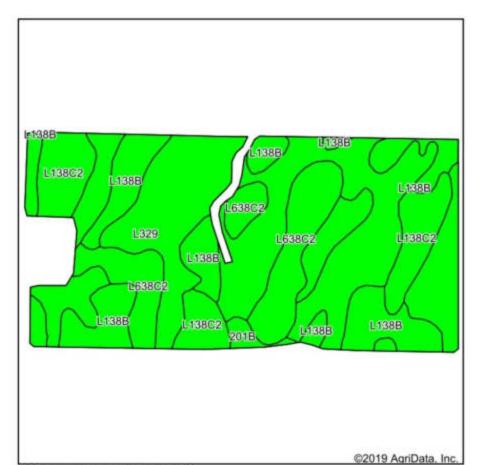
*i Yield data provided by the ISPAID Database version 8.1.1 developed by IA State University.

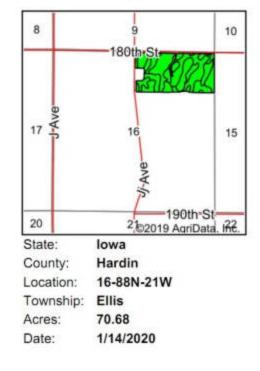
*n: The aggregation method is "Weighted Average using major components"

*c: Using Capabilities Class Dominant Condition Aggregation Method

Soils data provided by USDA and NRCS.

68724-05 Soils







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%		llw	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%		llle	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%		łłw	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.

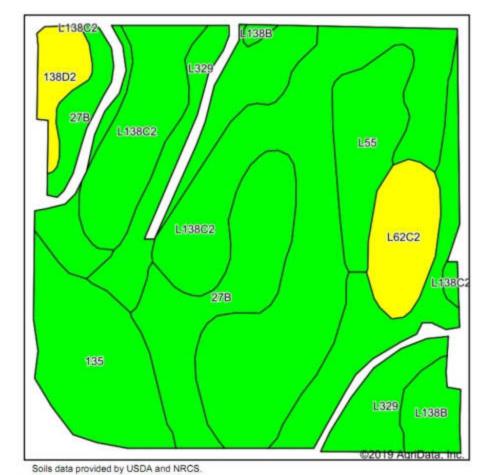
*- CSR weighted average cannot be calculated on the current soils data, use prior data version for csr values. *i Yield data provided by the ISPAID Database version 8.1.1 developed by IA State University.

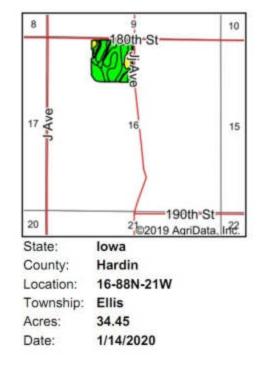
*n: The aggregation method is "Weighted Average using major components" *c: Using Capabilities Class Dominant Condition Aggregation Method

Soils data provided by USDA and NRCS.

Soils data provided by USDA and NRCS.

68724-06 Soils







Code	Soil Description	Acres	Percent of field	CSR2 Legend	Non-Irr Class *c	*i Corn	*i Soybeans	CSR2**		*n NCCPI Soybeans
L138C2	Clarion loam, Bemis moraine, 6 to 10 percent slopes, moderately eroded	12.52	36.3%		ille	0	0	83		60
L329	Webster-Nicollet complex, Bemis moraine, 0 to 3 percent slopes	6.94	20.1%		llw	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%		Ilw	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%		llle	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

Soils data provided by USDA and NRCS.

Sample Locations







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

version 12.07

Ri	AgSource	
alernations	A Subsidiary of Cooperative Resources International	

Submitted byEW500141015J FARMS AND SERVICES3244 CAMERON SCHOOL RDAMES, IA 50014

Date Received

14-Oct-2016

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

SOIL ANALYSIS

Submitted for **BOB BLOME**

Date Reported

18-Oct-2016

Laboratory Sample #

AW98496 - AW98523

1014-265
Information Sheet #

Signup Id:										Field	l Id: BC	DBS EA		· JJ AV	/E									
Sample	Soil	Buffer	Sol.			Phosp			Wet												% Ba	se Satı		
Id	рН	рН	Salt		Bray 1	Bray 2	Olsen	M3	K	K	Mg	Са	S	Zn	Mn	Cu	Fe	В	CEC	Н	К	Mg	Са	Na
	1			%							— ppm			1						%	%	%	%	%
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														\square
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														

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.

Ri	AgSource
alernations	A Subsidiary of Cooperative Resources International

Submitted byEW500141015J FARMS AND SERVICES3244 CAMERON SCHOOL RDAMES, IA 50014

Date Received

14-Oct-2016

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

SOIL ANALYSIS

Submitted for **BOB BLOME**

Laboratory Sample #

AW98496 - AW98523

18-Oct-2016	
Date Reported	

Information Sheet # 1014-265

Signup Id:											Field	l i d: BC)BS EA	ST OF	= JJ AV	Έ									
Sampl	le So	oil	Buffer	Sol.			Phos	ohorus		Wet												% Ba	se Sati	uration	
Id	pl	н	pН	Salt	OM	Bray 1	Bray 2	Olsen	М3	K	K	Mg	Ca	S	Zn	Mn	Cu	Fe	В	CEC	Н	К	Mg	Са	Na
					%							— ppm	·						_		%	%	%	%	%
18	ų	5.7	6.7		4.6				52		73														
19	(6.1	7.0		4.0				27		63														
20	ų	5.5	6.8		3.5				34		118														
21	į	5.3	6.6		3.0				34		120														
22	į	5.2	6.7		2.9				39		98														
23	į	5.4	6.6		3.1				37		129														
24	Į	5.0	6.5		2.5				42		80														
25	Į	5.4	6.6		3.0				34		99														
26		6.1	7.0		2.8				38		129														
27	į	5.4	6.6		2.3				42		60														

Sample Locations

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



Powered By FieldRx™



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

version 12.07

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

Date Received

13-Apr-2018

Submitted for FERRIS FARMS



Laboratory Sample # BG20225 - BG20230

Information Sheet # 0413-232

Date Reported 17-Apr-2018

Signup Id:										Field	lld: KL	INE E	OF JJ	AVE										
Sample	Soil	Buffer	Sol.			Phos	phorus		Wet												% Bas	se Sati	uration	
ld	pН	pН	Salt	ОМ	Bray 1	Bray 2		M3	K	К	Mg	Са	S	Zn	Mn	Cu	Fe	В	CEC	Н	K	Mg	Са	
	-	-		%	_			-			— ppm) <u> </u>	-	_				_		%	%	%	%	
1	7.4	7.3		1.7				54		165	312	2126	4	2.5					13.7	0.0		i 	77.4	1
2	5.6	6.5		2.0				37		146	204	1652	8	2.3				 	18.5	44.0			44.5	Г т
3	5.2	6.3		2.6				48		144	219	1632	7	1.6			 	 	20.2	48.2	 	/ 	40.3	1
4	5.2	6.2		2.5				85		173	213	1477	6	2.2			 	 	20.3	52.3	 	/ 	36.3	1
5	5.3	6.4		2.0				40		137	184	1426	7	1.6	1			 	18.0	49.7	1.9	8.4	39.5	1
6	5.6	6.5		2.5				49		147	240	1824	6	2.0					19.9	42.1			45.7	Г L

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 1

Na %

0.7 0.6 0.5 0.5 0.5

Sample Locations

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





5J Farms and Services Ferris Farms Kline W of JJ Ave 63.3 acres

version 12.07

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

Date Received 13-Apr-2018 Submitted for FERRIS FARMS



Laboratory Sample # BG20213 - BG20224

Information Sheet # 0413-220

Date Reported 17-Apr-2018

Signup Id:									Field	ld: KL	INE W	OF JJ	AVE										
Sample	Soil	Buffer	Sol.			Phosphorus		Wet												% Ba	se Sati	uration	
ld	pН	pН	Salt	ОM	Bray 1	Bray 2	M3	Κ	K	Mg	Са	S	Zn	Mn	Cu	Fe	В	CEC	Н	Κ	Mg	Са	Na
				%			-	-		— 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

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Page 1 of 1

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

version 12.07

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

Date Received

13-Apr-2018

Signup Id: Field Id: RED HOUSE Phosphorus Wet % Base Saturation Sample Soil Buffer Sol. В ld S Cu Н Mg pН pН Salt OM Bray 1 Bray 2 Olsen M3 Κ Κ Mg Ca Zn Mn Fe CEC Κ Са Na % % % % ppm % % 324 2240 4.2 21.1 53.0 0.7 1 6.0 6.7 2.7 160 217 8 31.0 2.6 12.6 2 7 43.0 2.0 5.5 6.4 3.2 174 261 1985 2.2 22.1 9.7 44.8 0.5 97 3 5.8 6.4 5.2 212 426 3059 7 3.2 28.4 31.5 1.9 12.3 53.7 0.5 88 6 69.0 4 6.6 6.9 4.4 278 344 3803 4.2 27.5 17.6 2.6 10.3 0.4 132 5 5 2.5 5.8 6.9 1.5 254 1679 2.1 16.0 31.2 13.0 52.4 0.7 62 158 6 7.9 7 7.6 2.3 285 229 3405 5.5 19.8 0.0 3.7 9.5 85.8 0.8 123 7 7.1 7.4 1.3 188 252 2357 6 3.0 14.4 0.0 3.3 14.4 81.7 0.9 71 8 7.1 7.3 1.2 131 293 3236 3 1.4 19.0 0.0 1.8 12.7 85.0 0.3 41 9 1.9 7 40.4 0.7 5.6 6.6 222 234 1693 1.6 18.6 3.1 10.3 45.4 56 10 1.6 2001 6 2.5 23.2 3.2 58.4 0.5 6.4 7.0 213 309 17.1 14.9 79 7.2 75.5 11 7.3 1.5 131 257 1543 4 2.1 10.2 0.0 3.3 20.7 0.7 64 3.2 12 7.3 7.3 488 422 2766 6 6.7 74.2 0.6 10.4 18.6 0.0 18.7 200 5.3 13 6.2 2.6 369 154 1268 7 5.4 19.6 56.2 4.8 6.5 32.3 0.4 290 14 5.4 6.2 2.6 265 231 1597 8 3.3 21.4 50.1 3.2 8.9 37.2 0.5 157 15 5.4 6.2 3.3 264 251 1981 8 3.1 23.4 45.8 2.9 8.8 42.2 0.5 128 7 16 5.3 2.9 276 1337 2.3 20.4 56.6 3.5 6.9 32.7 0.3 6.1 171 104 17 5.4 6.3 2.8 231 6 2.7 21.1 48.7 2.0 9.0 0.4 167 1693 40.0 96 18 5.6 6.5 1.8 137 275 1830 5 1.4 19.8 40.2 1.8 11.4 46.1 0.5 34

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Submitted for FERRIS FARMS

Date Reported

18-Apr-2018



Laboratory Sample # BG20231 - BG20271

Information Sheet #

0413-238

Page 1 of 3

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

Date Received

13-Apr-2018

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

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Submitted for FERRIS FARMS

Date Reported

18-Apr-2018



Laboratory Sample # BG20231 - BG20271

Information Sheet #

0413-238

Page 2 of 3

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

Date Received

Submitted for FERRIS FARMS

Date Reported



Laboratory Sample # BG20231 - BG20271

Information Sheet #

13-Apr-2018							18-Ap	or-2018												C	0413-23	38		
Signup Id:			_							Field	d Id: RE	D HOU	SE											
Sample	Soil	Buffer	Sol.			Phos	phorus		Wet												% Ba	se Sati	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)						-		%	%	%	%	%
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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Page 3 of 3



Date: 11/28/2017 Field: EIS16NE Farm: The 80 Grower: OBerndner, Steve Area: 73.02 ac Lat: 42.43897°N Lon: 093.29538°W

N	_	0	ne in =	513 fe	et			
A	0	172	344	516	688	860		
Sample	e ID							
1							(1 pt.)	
2							(1 pt.)	
3							(1 pt.)	
4							(1 pt.)	
5							(1 pt.)	
6							(1 pt.)	
7							(1 pt.)	
8							(1 pt.)	-

MINNESOTA VALLEY TESTING LABORATORIES, INC.

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

MEMBER ACIL

www.mvtl.com

SUBMITTED BY: 002281

MVTL

SOBMITTED FOR: OBerndner, Steve Farm: The 80 Field: EIS16NE-107392

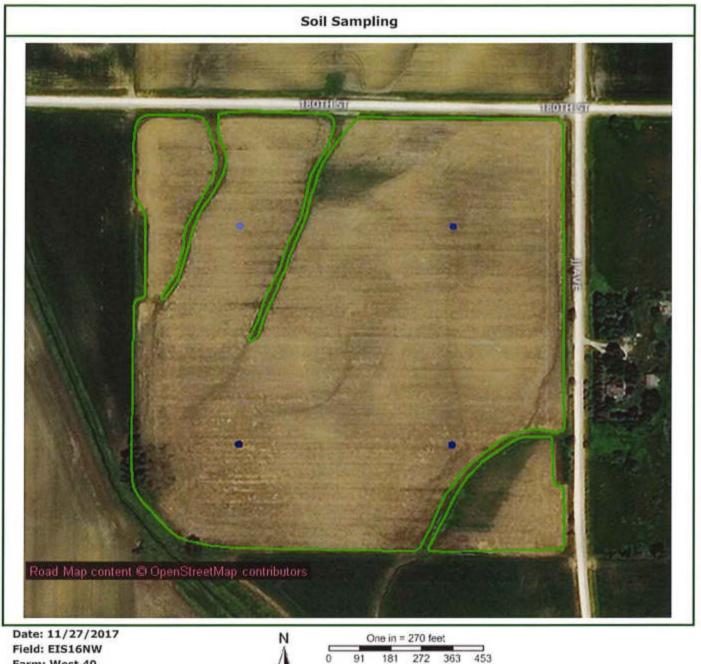
SAMANTHA STEGMAN INNOVATIVE AG SERVICES-W 31578 CO HWY \$27 GARDEN CITY IA 50102

Date Received: Nov 1 2017 Report Date: Work Order No: 201791-00722

.

Lab Num	Sample ID	Soi? pH	Buff pH	ом %	B-I P Olsen web ppm P ppm ppm	MehK ppm	Zn ppm	Cu ppm	в фрг	s ppm	NC3 1bs	N-NH4 1bs	155	Влауїї ррт
17-x65759 17-x65760 17-x65761 17-x65762 17-x65763	2 3 4	6.2 5.5 6.4 5.9 5.8	6.9 6.6 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-ж63764 17-м65765 17-ж65766	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								

MVTL guarances the accuracy of the analysis done on the sample submitted for assess, in is not possible for WVTL to guarances that use result obtained on a particular sample will be the same of any other sample methods all coordinates of being the sample are the same of any other sample methods and other sample methods are submitted for assessing to the one fidential property of the net submitted for a particular sample will be the same of any other sample methods and other sets of the same of any other sample method and other same of any other sample method and other same of any other sample methods or extract protection of a same of any other sample method and other same of any other sample method and the same of any other sample method and the same of any other sample method. As a method method is property of the same of any other same of any other sample method and other same of any other sample method. As a method method is property of the same of any other sample method and other same of any other sample method and the same of any other sample method and the same of any other sample method and the same of any other sample method. As a method method and the same of any other sample method and the same of any other sample method. As a method method and the same of any other same of any other sample method and the same of any other sample method. As a method method and the same of any other sample method and the same of any other sample method. As a method method will be added as the same of any other sample method and the same of any other sample method and the same of any other sample method and the same of any other sample method. As a method will be added as the same of any other sample method any other same of any other same of any other same o



Field: EIS16NW Farm: West 40 Grower: OBerndner, Steve Area: 35.43 ac Lat: 42.43905°N Lon: 093.30280°W

N		C	ne in =	270 fe	et			
A	0	91	181	272	363	453		
Sample 1	e ID						(1 pt.)	
2 3 4							(1 pt.) (1 pt.) (1 pt.)	

MVTL

16-445271 4

.

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MEMBER ACIL

. .

SUBMITTED BY: 002281 SUBMITTED FOR: OBerndner, Steve Farm: West 40 Field: EIS16xw-83714 SAMANTHA STEGMAN INNOVATIVE AG SERVICES-W Date Received: Oct 27 2016 31578 CO HWY S27 Report Date: GARDEN CITY IA 50102 Work Order No: 201691-00474 Sail Buff OM B-I P Olsen MehP Salts MehK 2n Cu ≅ S NO3 A-NR4 C] BrayII Lab Num Sample ID рн рн 🕺 эрм Р ррм р**р**ж ЕС ppn ppr ppn ppm 1bs lbs lbs ррл _____ ---------_____ 6.6 6.3 6.2 6.2 16-M45268 1 5.8 5.7 5.6 5.7 3.1 5.0 4.7 5.1 21 93 16-M45269 2 16-M45270 3 35 22 47 130 98

144

MVTL guarantee the accuracy of the same on any other sample submitted for testing. It is not perside for MVTL to guarantee that a new owner channel or a particular sample will be the same on any other sample unless all conditions affecting increased in the same, including sampling by WVTL. As a mutual protection to clients, the public and autractives, all reports are subvalued as the confictor (a) property of clients, and authorization for publication of statements, conclusions or extended Post Or report ing our opports. AN EQUAL OPPORTUNITY EMPLOYER.

.....

Manure Application Agreement

I, <u>Steve</u> <u>Gberender</u> (Land Owner), agree to furnish land for the application of livestock manure from the confinement site owned by <u>Ferris Pork, LLC</u> (Site Owner), with location of <u>18400 JJ Ave, Iowa Falls, IA 50126</u>. 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	Oberender	
Signed:	Terre Olis	unde Date:	11-01-2017

Confinement Site	owner	
Printed Name: Z	Brock Ferris	
Signed: Jul	- Ferrin	

Date: // -/ -/ /	Date:]	1-1	1-1	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

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

Steven Obererde

Iowa Livestock Production and the Master Matrix

lowa is an agricultural state. Its economy is fueled by agriculture. According to Iowa 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 Iowa 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 Iowa, where communities and families depend on agriculture and its jobs, there is actually a need for more livestock and livestock facilities.

In lowa, 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.

2 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
\checkmark	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
(Δ)	"Thoroughfare" - a road street bridge or highway open to the public	and cons	tructed or	· maintain	ad hy the

(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
2	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	
W	Two times the minimum separation distance	30		24.00	6.00	
Refe	r to Table 6 of 567Chapter 65 for minimum required separation dist	ances to v	vells.			

- 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
2	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
10	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 Air Water Community

Re (Covered liquid manure storage	30	27.00		3.00
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(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	ĺ
	Installation of filter(s)	10	8.00		2.00	
T 1		1	<i>(</i> '	., ., .	. ,	

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 activ

	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
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
\mathbf{x}	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 facilites in which the applicant has an interest.

_		Score	Air	Water	Community	
1	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	Air	Water	Community
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 lowa Code chapter 425A.

		Score	Air	Water	Community
3	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	Water	Community
\checkmark	1 to 2,000 animal unit capacity	20			20.00
	2,001 to 3,000 animal unit capacity	10			10.00
	3,001 animal 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 25 significantly reduce manure volume. Г

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

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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.

		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 land- applied	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				
D	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 under the requirements of an approved department manure management plan	10	3.00	3.00	4.00

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

Ū	After methane digestion is complete, manure is injected or incorporated on the same date it is land- applied 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.

(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.

(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.

28 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

(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.

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

(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 **29** the USDA NRCS.

	Score	Air	Water	Community	
No manure application on HEL farmland	10		10.00		
Manure application on non-HEL farmland must be in the construction perro	nit applica	tion and r	nade a co	ndition 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
E.	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.

33 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	10		8.00	2.00
<u>j</u>	properly closed	10		0.00	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)	"Agricultural drainage wells" - include surface intakes, cisterns and w	ellheads o	of agricult	iral draina	ge 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	
ļ	Manure management plan confidentiality waiver	5			5.00	
The weiver of confidentiality must be in the construction normit application and made a condition in the approved						

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

- **39** median (45-2093)
 - OR -

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

		Score	Air	Water	Community	
\Box	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
(4)	Manite ving well leasting as multiply and data as huminating much most d			a 1940	

(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
	445	83.5	148	213.5
Score to pass	440	53.38	67.75	101.13

<u>Master Matrix</u> <u>Design, Operation, and Maintenance Plan</u>

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.

<u>Maintenance</u>: 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.

<u>Master Matrix Additional Details and Explanations</u> <u>Proposed New Livestock Facility</u> <u>Confinement, Unincorporated Area</u>

<u>Livestock Facility Name</u>: Ferris Pork, Facility ID 68724 <u>Animal Unit Capacity</u>: 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 Item #2 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 Item #6 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 Item #8 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 Item #10 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 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 Item #19 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 <u>Item #20</u> is **30**.

Master Matrix #23

Since the proposed livestock facility construction permit applicant can claim a Family Farm Tax Credit qualification, the score of <u>Item #23</u> 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.

<u>Master Matrix #24</u>

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 <u>Item #26e</u> 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 <u>Item #29</u> 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".

<u>Master Matrix #31</u>

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 <u>Item #31</u> 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 <u>Item #35</u> is 10.

LOAN AGREEMENT

I. THE PARTIES. This Loan Agreement ("Agreement") made April 15th, 2020, is by and between:

Borrower: Radcliffe American Legion Post #317, with a Street Address of 115 Isabella Street, City of Radcliffe, State of Iowa, Zip Code of 50230, ("Borrower") and agrees to pay:

Lender: Hardin County Iowa, with a Street Address of 1215 Edgington Avenue, City of Eldora, State of Iowa, Zip Code of 50627, ("Lender").

HEREINAFTER, the Borrower and Lender ("Parties") agree to the following:

II. LOAN AMOUNT. \$25,000.00 (Twenty-five Thousand) ("Loan Amount").

III. INTEREST. The Loan Amount shall: (check one)

 \boxtimes - Not bear interest.

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IV. PAYMENT. The Loan Amount shall be due and payable, including the principal and any accrued interest, under the following re-payment plan: (check one)

 \boxtimes - Quarterly (October 1, January 1, April 1, June 1) payments of \$1,000.00 (one thousand) beginning on June 1, 2020, and to be paid until the remaining principle balance is \$5,000.00 (five thousand).

 \boxtimes - Other: Once the balance reaches \$5,000.00 (five thousand), the Borrower's obligation under this Agreement will be discharged and the Lender will release the Borrower.

V. PAYMENT INSTRUCTIONS. The Borrower shall make payment to the Lender by directing payments payable to the Hardin County Auditor.

VI. LATE FEE. If any payment is late, the Lender has the option to consider the Borrower in default and give notice to the Borrower that the full amount of the loan is immediately due and owing.

VII. SECURITY: The Loan Amount under this Agreement shall be: (check one)

☑ - **UNSECURED**. There shall be NO SECURITY provided in this Agreement.

VIII. PREPAYMENT. The Borrower has the right to pay back the loan in-full or make additional payments, at any time, without penalty.

IX. REMEDIES. No delay or omission on part of the holder of this Agreement in exercising any right hereunder shall operate as a waiver of any such right or of any other right of such holder, nor shall any delay, omission or waiver on any one occasion be deemed a bar to or waiver of the same or any other right on any future occasion. The rights and remedies of the Lender shall be cumulative and may be pursued singly, successively, or together, in the sole discretion of the Lender.

X. EVENTS OF ACCELERATION. The occurrence of any of the following shall constitute an "Event of Acceleration" by the Lender under this Agreement:

- a.) Borrower's failure to pay any part of the principal or interest as and when due under this Agreement; or
- b.) Borrower's becoming insolvent or not paying its debts as they become due.

XI. ACCELERATION. Upon the occurrence of an Event of Acceleration under this Agreement, and in addition to any other rights and remedies that Lender's may have, Lender shall have the right, at its sole and exclusive option, to declare all monies under this Agreement immediately due and payable.

a.) This includes any rights of possession in relation to the Security described in Section VII.

XII. SUBORDINATION. The Borrower's obligations under this Agreement are subordinated to all indebtedness, if any, of the Borrower, to any unrelated third-party lender to the extent such indebtedness is outstanding on the date of this Agreement and such subordination is required under the loan documents providing for such indebtedness.

XIII. WAIVER BY BORROWER. All parties to this Agreement, including the Borrower and any sureties, endorsers, and guarantors hereby waive protest, presentment, notice of dishonor, and notice of acceleration of maturity and agree to continue to remain bound for the payment of principal, interest and all other sums due under this Agreement notwithstanding any change or changes by way of release, surrender, exchange, modification or substitution of any security for this Agreement or by way of any extension or extensions of time for the payment of principal and interest; and all such parties waive all and every kind of notice of such change or changes and agree that the same may be made without notice or consent of any of them.

XIV. SUCCESSORS. This Agreement is a promise of the Borrower and shall bind themselves including the Borrower's successors, heirs and assigns; provided, however, that Lender may not assign any of its rights or delegate any of its obligations hereunder without the prior written consent of the holder of this Agreement.

XV. GOVERNING LAW. This Agreement shall be governed by, and construed in accordance with, the laws of the State of Iowa ("Governing Law").

XVI. EXPENSES. In the event any payment under this Agreement is not paid when due, the Borrower agrees to pay the Lender, in addition to the principal and interest hereunder, reasonable attorneys' fees if the Lender must hire legal counsel to assist in retrieving the Borrower's outstanding balance. Said attorneys' fees shall accumulate interest starting from the date paid. Said interest rate shall not equal the maximum usury rate in the State of Governing Law. The Borrower may be reasonable for any other reasonable expenses incurred by Lender in exercising any of their rights and remedies upon default.

XVII. ADDITIONAL TERMS & CONDITIONS. _____ NONE_____

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XVIII. ENTIRE AGREEMENT. This Agreement contains all the terms agreed to by the Borrower and Lender relating to its subject matter including any attachments or addendums. This Agreement replaces all previous discussions, understandings, and oral agreements.

IN WITNESS WHEREOF, the Parties have executed this Agreement as of the undersigned dates written below.

Borrower's Signature:	Date:
Print:	
Lender's Signature:	_Date:
Print:	

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COUNTY RECORDER'S REPORT OF FEES COLLECTED (See Chapter 342, Code)

State of IOWA)SS:County of)HARDIN COUNTY

TO: The Board of Supervisors of HARDIN COUNTY

I, LORI S. KADNER, Recorder of the above-named County and State, do hereby certify that the following is a true and correct statement of the fees collected by me in my office for the period of <u>03/01/2020</u> through <u>03/31/2020</u> and the same has been paid to the County Treasurer.

All of which is respectfully submitted.

Hori D Kaa	her	04/08/2020
LORI S. KADNEF	COUNTY RECORDER	DATED

JESSICA LARA

COUNTY AUDITOR

CHAIRMAN

BOARD OF SUPERVISORS

Recorder's Monthly Report to the Treasurer

03/01/2020 to 03/31/2020

Liability

Account Number	Imber Description	
0001-1-07-8000-400000-2	Use Tax-DOR	(\$750.00)
0001-1-07-8000-400000-3	State Sales Tax-DOR	(\$813.00)
0001-1-07-8000-400000-4	Local Option Tax-DOR	(\$135.50)
0001-1-07-8000-401000-1	Snowmobile Registration Fees-State	(\$59.50)
0001-1-07-8000-401001	Snowmobile Titles - State	(\$19.50)
0001-1-07-8000-401002	Snowmobile Liens - State	(\$13.00)
0001-1-07-8000-402000	RVVRS Boat Registration Fees - State	(\$189.25)
0001-1-07-8000-402001-1	RVVRS Boat Titles - State	(\$1.50)
0001-1-07-8000-402001-2	RVVRS Boat Titles - DOR	(\$5.00)
0001-1-07-8000-403000-1	Hunting & Fishing Fees-State	(\$339.00)
0001-1-07-8000-404000-2	Real Estate Transfer Tax-State	(\$7,720.28)
0001-1-07-8000-406000-1	Vitals Certified Copies-State	(\$1,144.00)
0001-1-07-8000-407000-1	ATV Registration Fees-State	(\$644.50)
0001-1-07-8000-407000-2	ATV Titles-State	(\$84.50)
		(\$32.50)
0001-1-07-8000-407000-3	ATV Liens-State	(\$32.30)
0001-1-07-8000-413001-1	ATV Liens-State Marriage License-State	(\$124.00)
0001-1-07-8000-413001-1 Total		
0001-1-07-8000-413001-1 Total Revenue	Marriage License-State	(\$124.00) (\$12,075.03)
0001-1-07-8000-413001-1 Total Revenue Account Number	Marriage License-State	(\$124.00) (\$12,075.03) Net
0001-1-07-8000-413001-1 Total Revenue Account Number 0001-1-07-8000-400000	Marriage License-State Description Recording of Instruments	(\$124.00) (\$12,075.03)
0001-1-07-8000-413001-1 Total Revenue Account Number 0001-1-07-8000-400000 0001-1-07-8000-400000-1	Marriage License-State Description Recording of Instruments Over Payment	(\$124.00) (\$12,075.03) Net (\$6,185.00) (\$21.00)
0001-1-07-8000-413001-1 Total Revenue Account Number 0001-1-07-8000-400000 0001-1-07-8000-400000-1 0001-1-07-8000-401000	Marriage License-State Description Recording of Instruments Over Payment Snowmobile Writing Fees (\$5.00)-County	(\$124.00) (\$12,075.03)
0001-1-07-8000-413001-1 Total Revenue Account Number 0001-1-07-8000-400000 0001-1-07-8000-401000 0001-1-07-8000-401000 0001-1-07-8000-402001	Marriage License-State Description Recording of Instruments Over Payment Snowmobile Writing Fees (\$5.00)-County RVVRS Boat Titles - County	(\$124.00) (\$12,075.03) Net (\$6,185.00) (\$21.00) (\$25.00) (\$5.00)
0001-1-07-8000-413001-1 Total Revenue Account Number 0001-1-07-8000-400000 0001-1-07-8000-400000-1 0001-1-07-8000-401000 0001-1-07-8000-402001 0001-1-07-8000-403000	Marriage License-State Description Recording of Instruments Over Payment Snowmobile Writing Fees (\$5.00)-County RVVRS Boat Titles - County Hunting & Fishing Fees-County	(\$124.00) (\$12,075.03) Net (\$6,185.00) (\$21.00) (\$25.00) (\$5.00) (\$5.50)
0001-1-07-8000-413001-1 Total Revenue Account Number 0001-1-07-8000-400000 0001-1-07-8000-400000-1 0001-1-07-8000-401000 0001-1-07-8000-402001 0001-1-07-8000-403000 0001-1-07-8000-404000	Marriage License-State Description Recording of Instruments Over Payment Snowmobile Writing Fees (\$5.00)-County RVVRS Boat Titles - County Hunting & Fishing Fees-County Real Estate Transfer Tax-County	(\$124.00) (\$12,075.03) Net (\$6,185.00) (\$21.00) (\$25.00) (\$5.00) (\$5.50) (\$1,609.32)
0001-1-07-8000-413001-1 Total Revenue Account Number 0001-1-07-8000-400000 0001-1-07-8000-400000-1 0001-1-07-8000-401000 0001-1-07-8000-402001 0001-1-07-8000-404000 0001-1-07-8000-406000	Marriage License-State Description Recording of Instruments Over Payment Snowmobile Writing Fees (\$5.00)-County RVVRS Boat Titles - County Hunting & Fishing Fees-County Real Estate Transfer Tax-County Vitals Certified Copies-County	(\$124.00) (\$12,075.03) (\$12,075.03) (\$6,185.00) (\$21.00) (\$21.00) (\$25.00) (\$25.00) (\$5.50) (\$5.50) (\$1,609.32) (\$416.00)
0001-1-07-8000-413001-1 Total Revenue Account Number 0001-1-07-8000-400000 0001-1-07-8000-400000-1 0001-1-07-8000-401000 0001-1-07-8000-402001 0001-1-07-8000-403000 0001-1-07-8000-406000 0001-1-07-8000-407000	Marriage License-State Description Recording of Instruments Over Payment 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	(\$124.00) (\$12,075.03) (\$12,075.03) (\$21,00) (\$21.00) (\$25.00) (\$25.00) (\$5.50) (\$5.50) (\$1,609.32) (\$416.00) (\$90.00)
0001-1-07-8000-413001-1 Total Revenue Account Number 0001-1-07-8000-400000 0001-1-07-8000-401000 0001-1-07-8000-401000 0001-1-07-8000-402001 0001-1-07-8000-403000 0001-1-07-8000-404000 0001-1-07-8000-407000 0001-1-07-8000-408000	Marriage License-State Description Recording of Instruments Over Payment 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	(\$124.00) (\$12,075.03) (\$12,075.03) (\$21,00) (\$21.00) (\$25.00) (\$25.00) (\$5.00) (\$5.50) (\$1,609.32) (\$416.00) (\$90.00) (\$60.00)
0001-1-07-8000-413001-1 Total Revenue Account Number 0001-1-07-8000-400000 0001-1-07-8000-400000-1 0001-1-07-8000-401000 0001-1-07-8000-402001 0001-1-07-8000-403000 0001-1-07-8000-406000 0001-1-07-8000-408000 0001-1-07-8000-408000 0001-1-07-8000-410000	Marriage License-State Description Recording of Instruments Over Payment 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 AUVRS Writing Fees - County Auditor's Transfer Fees - \$5.00	(\$124.00) (\$12,075.03) (\$12,075.03) (\$12,075.03) (\$6,185.00) (\$21.00) (\$25.00) (\$25.00) (\$5.50) (\$5.50) (\$1,609.32) (\$416.00) (\$90.00) (\$480.00)
0001-1-07-8000-413001-1 Total Revenue Account Number 0001-1-07-8000-400000 0001-1-07-8000-400000-1 0001-1-07-8000-402001 0001-1-07-8000-402001 0001-1-07-8000-403000 0001-1-07-8000-406000 0001-1-07-8000-406000 0001-1-07-8000-408000 0001-1-07-8000-410000 0001-1-07-8000-413001	Marriage License-State Description Recording of Instruments Over Payment 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 ATV Writing Fees + County Auditor's Transfer Fees - \$5.00 Marriage License-County	(\$124.00) (\$12,075.03) (\$12,075.03) (\$12,075.03) (\$6,185.00) (\$25.00) (\$25.00) (\$25.00) (\$5.50) (\$1,609.32) (\$416.00) (\$40.00) (\$480.00) (\$480.00) (\$16.00)
0001-1-07-8000-413001-1 Total Revenue Account Number 0001-1-07-8000-400000 0001-1-07-8000-400000-1 0001-1-07-8000-402001 0001-1-07-8000-402001 0001-1-07-8000-403000 0001-1-07-8000-406000 0001-1-07-8000-406000 0001-1-07-8000-408000 0001-1-07-8000-413001 0001-1-07-8000-550000	Marriage License-State Description Recording of Instruments Over Payment 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	(\$124.00) (\$12,075.03) (\$12,075.03) (\$21.00) (\$25.00) (\$25.00) (\$5.50) (\$1,609.32) (\$416.00) (\$416.00) (\$480.00) (\$480.00) (\$480.00) (\$16.00) (\$217.00)
0001-1-07-8000-413001-1 Total Revenue Account Number 0001-1-07-8000-400000 0001-1-07-8000-400000-1 0001-1-07-8000-402001 0001-1-07-8000-402001 0001-1-07-8000-403000 0001-1-07-8000-406000 0001-1-07-8000-406000 0001-1-07-8000-408000 0001-1-07-8000-410000 0001-1-07-8000-413001	Marriage License-State Description Recording of Instruments Over Payment 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 ATV Writing Fees + County Auditor's Transfer Fees - \$5.00 Marriage License-County	(\$124.00) (\$12,075.03) (\$12,075.03) (\$12,075.03) (\$6,185.00) (\$25.00) (\$25.00) (\$25.00) (\$5.50) (\$1,609.32) (\$416.00) (\$40.00) (\$480.00) (\$480.00) (\$16.00)

Grand Total

(\$21,772.85)

Recorder's Monthly Report to the Treasurer

03/01/2020 to 03/31/2020

Range	Account	Ne
Department of Revenue		
	0001-1-07-8000-400000-4 Local Option Tax-DOR	(\$135.50)
	0001-1-07-8000-400000-3 State Sales Tax-DOR	(\$813.00)
	0001-1-07-8000-400000-2 Use Tax-DOR	(\$750.00)
	0001-1-07-8000-402001-2 RVVRS Boat Titles - DOR	(\$5.00)
	0001-1-07-8000-404000-2 Real Estate Transfer Tax- State	(\$7,720.28)
Department of Revenue		(\$9,423.78)
Hunting and Fishing		
	0001-1-07-8000-403000 Hunting & Fishing Fees- County	(\$5.50)
	0001-1-07-8000-403000-1 Hunting & Fishing Fees- State	(\$339.00)
Hunting and Fishing		(\$344.50)
Marriage Application		
	0001-1-07-8000-413001-1 Marriage License-State	(\$124.00)
	0001-1-07-8000-413001 Marriage License-County	(\$16.00)
Marriage Application		(\$140.00)
RVVRS County	0001-1-07-8000-408000 RVVRS Writing Fees -	(\$60.00)
	County 0001-1-07-8000-401000 Snowmobile Writing Fees	(\$25.00)
	(\$5.00)-County	(#20.00
	0001-1-07-8000-402001 RVVRS Boat Titles - County	(\$5.00)
	0001-1-07-8000-407000 ATV Writing Fees(\$5.00)- County	(\$90.00)
RVVRS County		(\$180.00)
RVVRS State		
	0001-1-07-8000-401002 Snowmobile Liens - State	(\$13.00)
	0001-1-07-8000-401001 Snowmobile Titles - State	(\$19.50)
	0001-1-07-8000-402000 RVVRS Boat Registration Fees - State	(\$189.25)
	0001-1-07-8000-402001-1 RVVRS Boat Titles - State	(\$1.50)
	0001-1-07-8000-407000-2 ATV Titles-State	(\$84.50)
	0001-1-07-8000-407000-1 ATV Registration Fees- State	(\$644.50)
	0001-1-07-8000-401000-1 Snowmobile Registration Fees-State	(\$59.50)
	0001-1-07-8000-407000-3 ATV Liens-State	(\$32.50)
RVVRS State		(\$1,044.25)
Transfer Tax		
	0001-1-07-8000-404000 Real Estate Transfer Tax- County	(\$1,609.32)
	0001-1-07-8000-404000-2 Real Estate Transfer Tax- State	(\$7,720.28)
Transfer Tax		(\$9,329.60)
Vitals Certified Copies		
	0001-1-07-8000-406000-1 Vitals Certified Copies- State	(\$1,144.00)
	0001-1-07-8000-406000 Vitals Certified Copies- County	(\$416.00)



Hardin County Child Abuse Prevention Coalition 2020 Child Abuse Prevention Month Proclamation

WHEREAS, in Federal fiscal year 2018, 4.3 million reports were made to child protective services; and

WHEREAS, child abuse and neglect is a serious problem affecting every segment of our community, and finding solutions requires input and action from everyone; and

WHEREAS, our children are our most valuable resources and will shape the future of the Hardin County; and

WHEREAS, child abuse can have long-term psychological, emotional, and physical effects that have lasting consequences for victims of abuse; and

WHEREAS, protective factors are conditions that reduce or eliminate risk and promote the social, emotional, and developmental well-being of children; and

WHEREAS, effective child abuse prevention activities succeed because of the partnerships created between child welfare professionals, education, health, community- and faith-based organizations, businesses, law enforcement agencies, and families; and

WHEREAS, communities must make every effort to promote programs and activities that create strong and thriving children and families; and

WHEREAS, we acknowledge that we must work together as a community to increase awareness about child abuse and contribute to promote the social and emotional well-being of children and families in a safe, stable, and nurturing environment; and

WHEREAS, prevention remains the best defense for our children and families.

NOW, THEREFORE, We, The Hardin County Board of Supervisors, do hereby proclaim April 2020 as CHILD ABUSE PREVENTION MONTH in Hardin County and urge all citizens to recognize this month by dedicating ourselves to the task of improving the quality of life for all children and families.

Dated in Eldora this 15th Day of April 2020.

Hardin County Board of Supervisors

STATEMENT OF UNDERSTANDING

FY 2020

According to the Central Iowa Community Services (CICS) 28E (emphasis added):

6. STAFF

6.1 Selection process for Regional Administrator Team and CEO

The initial Regional Administrator Team shall consist of the County Central Point of Coordinator (CPC) from each member county and will be called Community Services Director from this point forward (hereinafter referred to as CSDs). The CSDs which make up the Regional Administrator Team shall remain employees of their respective counties. *There will be a statement of understanding between the Governing Board and the individual county Boards of Supervisors that will identify the individual employee, the position to be filled, and the portion of the employee's wages and benefits that will be the responsibility of the Region.* The Regional Administrator Team will present a recommendation for the Chair/CEO to the Governing Board. The Chief Executive Officer (CEO) shall be appointed by the Governing Board. The initial CEO shall be the CPC Administrator from one of the member counties. The CEO shall remain an employee of his or her respective county and shall report to the Region's Governing Board as outlined in the statement of understanding between the Governing Board and his or her member county Board of Supervisors. The CEO is the single point of accountability in the Region. The CEO shall assign the administrative responsibilities to the Regional Administrator Team to assure that each of the required functions are performed.

This document serves as the Statement of Understanding between Hardin County and Central Iowa Community Services for the following positions:

Employee	Position	% of wages and benefits
Michelle Lauchner	Administrative Support	100% (.75 FTE)

Begin Date 4/1/2020

The costs for the above position, including salary, benefits and other expenses shall be paid using regional funds currently held by Hardin County in their County Fund 10. Beginning 7/1/17 the amount of salary paid from Fund 10 shall not exceed the maximum reimbursement rate for the position, as approved annually by the CICS Governing Board, multiplied by the percentage of the position that is regionally funded. Individuals in the position prior to 7/1/17 shall be grandfathered in at the pay rate they are receiving 7/1/17 and CICS will allow an annual increase for reimbursement for the position not to exceed the percentage increase allowed for the regional pay matrix annually by the CICS Governing Board. These forms shall be updated each fiscal year or as mutually agreed upon.

Signature

Printed Name Chair, Hardin County Board of Supervisors

county Doard of Supervisors

Date _____

Signature

Printed Name Chair, Central Iowa Community Services

Date _____