

August 28, 2019

- 1. 10:00 A.M. Call To Order Courthouse Large Conference Room
- 2. Pledge Of Allegiance
- 3. Approval Of Agenda
- 4. Approval Of Minutes 8/7/2019 & 8/15/2019

Documents:

08-07-2019_MINUTES.PDF 08-15-2019_MINUTES.PDF

5. Approval Of Claims For Payment

Documents:

VENDOR PUBLICATION REPORT 8-22-2019.PDF VENDOR PUBLICATION REPORT 8-28-2019.PDF

- 6. 10:02 A.M. Public Hearing On Proposed Budget Decrease In Appropriations
- 7. Resolution On Budget Decrease In Appropriations

Documents:

APPROPRIATION AMENDMENT 20.PDF

8. Approval Of Official County Digital Seal

Documents:

DIGITAL SEAL.PDF

9. Resolution For Tax Abatement

Documents:

RESOLUTION TAX ABATE 445.63 CITY OF ELDORA-BENNETT.PDF RESOLUTION TAX ABATE 445.63 CITY OF ELDORA-COLLINS.PDF

- 10. Utility Permits & Secondary Roads Department
- 11. Open Secondary Roads Equipment Bids
- 12. Change Of Status: Auditor's Office

Documents:

CHANGE OF STATUS - AUDITOR.PDF

13. Change Of Status: Sheriff's Office

Documents:

CHANGE OF STATUS - SHERIFF.PDF

- 14. Appointment To Greenbelt Home Care Board
- 15. Appointment To Emergency Management Agency Board
- 16. Appointment To E911 Board
- 17. Appointment To Board Of Health
- 18. Appropriation Of LOST Funds Towards Attendance At 2019-2020 Leadership Iowa Class
- 19. Acknowledge Receipt Of Animal Feeding Operation Construction Permit Application: Corner Pork Site, Section 27, Alden Township

Documents:

CORNER PORK SITE PERMIT.PDF

- 20. Set Date And Time For Public Hearing On Construction Permit Application For Corner Pork Site, Section 27, Alden Township
- 21. Public Comments

Documents:

HARDIN COUNTY POLICY FOR PUBLIC COMMENT.PDF

- 22. Other Business
- 23. Adjournment

HARDIN COUNTY BOARD OF SUPERVISORS MINUTES – AUGUST 7, 2019 WEDNESDAY - 10:00 A.M. COURTHOUSE LARGE CONFERENCE ROOM

Chair Reneé McClellan called the meeting to order. Also present were Supervisors Lance Granzow and BJ Hoffman; and Mike Roll, Doug Morse, Matt Rezab, Taylor Roll, Jessica Sheridan, Angela De La Riva, Machel Eichmeier, Dave McDaniel, Julie Duhn, Kamran Franco, Jessica Lara, Mark Buschkamp, and Angela Silvey.

The Pledge of Allegiance was recited.

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

Hoffman moved, Granzow seconded to approve the minutes of July 31, 2019 and August 5, 2019. Motion carried.

Granzow moved, Hoffman seconded to approve the August 7, 2019 claims for payment. Motion carried.

Hoffman moved, Granzow seconded to approve the Main Street Bridge Feasibility study for Hardin County Bridge #3267. Hoffman requested County Engineer Taylor Roll report back to the Supervisors if the Alden mayor or Council raise any issues about the study. Motion carried.

Utility Permits: None.

Secondary Roads Department:

A departmental update was provided by Taylor Roll. No action was necessary; informational only.

Hoffman moved, Granzow seconded to approve the Auditor's Monthly Report for July 2019. Motion carried.

Granzow moved, Hoffman seconded to approve the Recorder's Monthly Report for July 2019. Motion carried.

Hoffman moved, Granzow seconded to approve the Sheriff's Monthly Reports for July 2019. McClellan explained one report was for FY 18/19, and one was for FY 19/20. Motion carried.

Hoffman moved, Granzow seconded to approve the amendment to the County Credit Card Policy to include credit card usage for Angela De La Riva, Economic Development Director, with a limit of \$2,000.00. Motion carried.

Granzow moved, Hoffman seconded to approve the Change of Status for Camryn Grubic, Conservation Nature Center Intern, end of seasonal employment, effective 8/1/2019. Motion carried.

Hoffman moved, Granzow seconded to approve the hiring of Marti Ferneau, Secondary Roads Office Manager, full-time, at a rate of \$18.50/hour, effective 8/7/2019, with a raise of \$0.50/hour after 6-month probation period. Motion carried.

Hoffman moved, Granzow seconded to approve the promotion of Erin Riedinger, Communication Dispatcher, part-time to full-time, effective 8/17/2019, at a rate of \$16.76/hour. Motion carried.

Hoffman moved, Granzow seconded to approve the hiring of Amy Robb, Communication Dispatcher, part-time, effective 8/5/2019, at a rate of \$15.00/hour. Motion carried.

Hoffman moved, Granzow seconded to approve the hiring of McKenzie Burton, Communication Dispatcher, effective 8/3/2019, at a rate of \$15.00/hour. Motion carried.

At 10:05 a.m. the Chair opened the public hearing on a proposed road reclassification of a portion of G Avenue. Taylor Roll reviewed the proposed road reclassification. No written comments or objections were received. The Chair then closed the public hearing and the following action was taken:

Hoffman moved, Granzow seconded that the following Resolution No. 2019-30, Resolution for Reduced Level of Maintenance to Area Service "C" Road, be adopted. Roll Call Vote: "Ayes" Hoffman, Granzow, and McClellan. "Nays" None. Resolution No. 2019-17 is hereby adopted as follows:

Resolution No. 2019-30

WHEREAS, Hardin County desires to classify certain roads on the area service system in the County to provide for a minimal level of maintenance and access by means of a gate or barrier; and

WHEREAS, the County, after consultation with the County Engineer, has the authority to specify certain roads within the County as Area Service "C" roads pursuant to Iowa Code Section 309.57; and

WHEREAS, the only persons who will have access rights to the roads shall be:

- (1) The owner, lessee, or person in lawful possession of any adjoining land,
- (2) The agent or employee of the owner, lessee, or person in lawful possession of any adjoining land,
- (3) Any peace officer,
- (4) Any magistrate,
- (5) Any public employee whose duty it is to supervise the use or perform maintenance of the road,
- (6) Any agent or employee of any utility located upon the road.

WHEREAS, the minimal level of maintenance will be as follows:

- 1. <u>Blading</u>. Blading or dragging will not be performed on a regular basis.
- 2. <u>Snow and Ice Removal.</u> Snow and ice will not be removed, nor will the road surface be sanded or salted on a regular basis.
- Signing. Except for load limit posting for bridges, signing shall not be continued or provided. <u>All Area Service Level C Roads shall be identified</u> with a sign at all points of access to warn the public of the lower level of maintenance.
- 4. <u>Weed, Brush, and Trees.</u> Mowing or spraying weeds, cutting brush, and tree removal will not be performed on a regular basis. Adequate sight distances will not be maintained.
- 5. <u>Structures.</u> Bridges and culverts may not be maintained to carry legal loads. Upon failure or loss, the replacement structure will be appropriate for the traffic thereon.
- 6. <u>Road Surfacing</u>. There will be no surfacing materials applied to Area Service System C Roads on a regular basis.
- 7. <u>Shoulders.</u> Shoulders will not be maintained on a regular basis.

- 8. <u>Crown.</u> A crown will not be maintained on a regular basis.
- 9. <u>Repairs.</u> There will be no road repair on a regular basis.
- 10. <u>Uniform Width.</u> Uniform width for the traveled portion of the road will not be maintained.
- 11. Inspections. Regular inspections will not be conducted.

THEREFORE, BE IT RESOLVED BY THE HARDIN COUNTY BOARD OF SUPERVISORS that this County does hereby establish the road described as an Area Service "C" Road, with restricted access and a minimal level of maintenance:

A portion of G Avenue, originally established on the 2nd of July, 1906 (Road Record Book 3, Page 269) as Gilbert Consent Highway, lying in Section 12, T-886N, R22W, Buckeye Township of Hardin County, Iowa. The extent of this road reclassification is the portion of the roadway commencing at the North Right-of-Way line of 180th Street, thence running in a Northerly direction approximately one-half mile to the terminus.

Resolution adopted this 7th day of August, 2019.

<u>/s/ Renee McClellan</u> Renee McClellan, Chairperson Hardin County Board of Supervisors

ATTEST: <u>/s/ Jessica Lara</u> Jessica Lara, Hardin County Auditor DATE: <u>8/7/2019</u>

Hoffman moved, Granzow seconded to set the time and date for a public hearing on decreasing appropriations for August 28, 2019 at 10:02 a.m. in the Courthouse Large Conference Room. McClellan advised the decrease de-appropriates \$80,000.00 from the Board of Supervisors Department which will be appropriated to the Economic Development Department. Motion carried.

Public Comments:

Doug Morse, Hansen Family Hospital, provided an update to the Board. No action was necessary; informational only.

Mike Roll addressed the Board regarding a claim for vehicle damage. Discussion was held on tires and other refuse in County ditches. Discussion was also held on whether or not the County could implement a fee on large manure spreaders. Hoffman offered to consult with County Attorney Darrell Meyer.

Other Business: None.

Hoffman moved, Granzow seconded to adjourn. Motion carried.

There were no reports on Supervisor Boards and Commissions presented.

At 11:00 a.m. McClellan reconvened the meeting. Present: Supervisors McClellan, Granzow, and Hoffman; and Angela De La Riva, Mark Buschkamp, and Angela Silvey.

Items discussed included:

- 1. Invoice for prorated amount of quarterly funding provided to Ackley Development Commission by Hardin County.
- 2. Method of addressing projects when confidentiality is requested.
- 3. Projects Mark Buschkamp is currently working on.

No action was taken; planning and discussion only.

Hoffman moved, Granzow seconded to adjourn at 11:27 a.m. Motion carried.

Two members remained after adjournment to further clarify the previous conversation. No deliberation or decisions were made.

Reneé McClellan, Chair Board of Supervisors

HARDIN COUNTY BOARD OF SUPERVISORS MINUTES – AUGUST 15, 2019 THURSDAY - 11:45 A.M. COURTHOUSE LARGE CONFERENCE ROOM

Chair Reneé McClellan called the meeting to order. Also present were Supervisors Lance Granzow and BJ Hoffman; and Darrell Meyer, Jessica Sheridan, Micah Cutler, and Angela Silvey.

Hoffman moved, Granzow seconded to approve the agenda. Motion carried.

Hoffman moved, Granzow seconded to approve the Marshall-Hardin County Public Environmental Health/Planning and Zoning Administrator Agreement, with a change in expiration date from October 31, 2019 to October 13, 2019. An extension, if required, will be discussed at a later date. Motion carried.

Hoffman moved, Granzow seconded that the following Resolution No. 2019-32, Marshall-Hardin County Public Environmental Health/Planning and Zoning Administrator Agreement, be adopted:

Where upon Board Member BJ Hoffman moved that the following resolution be adopted:

RESOLUTION NO. 2019-32

MARSHALL-HARDIN COUNTY PUBLIC ENVIRONMENTAL HEALTH/PLANNING AND ZONING ADMINISTRATOR AGREEMENT

WHEREAS, Iowa Code Chapter 28E authorizes governmental entities such as Hardin County and Marshall County to enter into agreements to provide public services; and

WHEREAS, Marshall County currently is without an environmental health/planning and zoning administrator due to the recent death of the previous administrator; and

WHEREAS, Marshall County has requested it and Hardin County enter an agreement to utilize Hardin County's administrator on a temporary basis; and

WHEREAS, Hardin County desires to be assist Marshall County under the circumstances and will be compensated by Marshall County;

NOW THEREFORE, BE IT RESOLVED by the Board of Supervisors of Hardin County, Iowa, that Hardin County adopts the attached agreement, to be executed by at least a majority of the Hardin County Board of Supervisors, and directs the Hardin County Auditor to also execute the agreement, and further directs the Hardin County Public Environmental Health/Planning and Zoning Administrator, Jessica Sheridan, to deliver to the Marshall County Supervisors a copy of this resolution and the executed agreement.

The motion was seconded by Board Member Granzow and after due consideration thereof, the roll was called and the following Board Members voted:

Ayes: Hoffman, Granzow, McClellan Nays: none Absent: none Abstain: none

Whereupon, the Chair of the Board of Supervisors declared said Resolution duly passed and adopted this 15th day of August, 2019.

<u>/s/ Reneé McClellan</u> Reneé McClellan, Chair Board of Supervisors

Attest:

<u>/s/ Jessica Lara</u> Jessica Lara Hardin County Auditor

Marshall-Hardin County Public Environmental Health/Planning and Zoning Administrator Agreement

This Contract and Agreement pursuant to Iowa Code Section 28E, is made and entered into this ______day of ______, 2019, by and between Marshall County, Iowa (hereinafter referred to as Marshall) and Hardin County, Iowa (hereinafter referred to as Hardin). This agreement shall be known as the Marshall-Hardin County Public Environmental Health/Planning and Zoning Administrator Agreement and each county shall adopt resolutions of this agreement. The Public Environmental Health/Planning and Zoning Administrator). This agreement does not contemplate and shall not be construed to limit or expand the powers of the participating counties, except as expressly stated in the agreement.

The purpose of said agreement is to establish a working mechanism between the two participating counties so that the agencies may jointly utilize the services of the Hardin County Iowa Environmental Health and Zoning Administrator. Pursuant to said purpose it is agreed as follows:

- Marshall County does not currently employ a Public Environmental Health/ Planning and Zoning Administrator and shall contract with Hardin County for a period beginning July 15, 2019 and ending when Marshall County employs a Public Environmental Health/ Planning and Zoning Administrator.
- The Administrator shall have full control of all public environmental health, planning and zoning processes and permitting for Marshall County.
- Both Marshall and Hardin Counties desire and need the services of an Administrator to serve in these capacities in accordance with each county's code of ordinances.
- The Administrator shall devote his or her time and talents to the interests of both Marshall and Hardin counties.
- The Administrator shall file a bond suitable to each Board of Supervisors. All fees incurred by filing said bonds shall be paid by the respective counties.
- Marshall County shall carry workmen's compensation on the Administrator for injuries sustained while carrying out duties specific to Marshall County.
- Marshall County shall pay Hardin County \$30.00/hr. and mileage reimbursement at the current 2019 mileage rate for the duties of the Administrator.
- Marshall County shall timely notify Hardin County when a Marshall County Public Environmental Health/ Planning and Zoning Administrator has been hired and can start and perform the duties of Administrator.
- This agreement may be amended or revised at any time only by written approval of all parties involved.
- This agreement shall supersede all provisions of previous agreements and any such agreements presently existing shall become null and void.
- This agreement shall expire on October 13, 2019, unless extended or otherwise amended in writing by all parties involved.
- Either County may terminate this agreement for any reason in written notice 30 days prior to termination.

The Administrator shall be in charge of the Public Environmental Health/ Planning and Zoning Department of each county. The Administrator may delegate duties to employees of the respective counties in consultation with the respective Board of Supervisors. The Administrator shall be indemnified and saved harmless by the respective county for any and all actions taken against said county, its Board of Supervisors or the Administrator, due to actions performed by the Administrator during the course of official duties for either county. Each county shall defend all such actions arising from that county and pay all judgements rendered in regards to the actions of the Administrator in that county. Each county shall acquire insurance as deemed necessary to accomplish the same.

Signed this _____ day of _____, 2019

Marshall County Board of Supervisors

Steve Salasek, Chairman

Dave Thompson, Vice Chairman

Bill Patten, Member

Hardin County Board of Supervisors

<u>/s/ Reneé McClellan</u> Reneé McClellan, Chairman

/s/ Lance Granzow Lance Granzow, Vice Chairman

<u>/s/ B.J. Hoffman</u> B.J. Hoffman, Member Marshall County Auditor and Recorder

Nan Benson

Hardin County Auditor

<u>/s/ Jessica Lara</u> Jessica Lara

Micah Cutler, IT/GIS Director, advised she will be recommending a pay increase for Jessica Sheridan. No action was necessary at this time; informational only.

Hoffman moved, Granzow seconded to adjourn at 11:51 a.m. Motion carried.

Reneé McClellan, Chair Board of Supervisors

Ackley Development Comm	\$747.28
Ackley Publishing Co. Inc	\$45.00
Agsource Cooperative Serv	\$411.00
AgVantage FS	\$45,613.58
Alliant Energy	\$17,575.05
Bauer Built Tire	\$1,456.00
Bimbo Foods Inc	\$208.09
Black Hills Energy	\$64.32
Builders FirstSource	\$600.78
Calhoun Burns and Associates Inc	\$1,080.88
Campbell Supply Co	\$152.70
Casey's General Store	\$40.00
Central Iowa Fabrication	\$326.98
CenturyLink	\$0.73
CenturyLink	\$493.86
Christopher L Barber	\$120.00
Cintas	\$1,038.62
Cintas Corporation	\$534.22
City of Eldora	\$50.31
City of Iowa Falls	\$31.43
City of Radcliffe	\$68.86
Connie J Mesch	\$100.00
ConvergeOne, Inc	\$8,653.86
Cooley Pumping LLC	\$520.00
Culligan	\$98.55
Danita Wheatley	\$40.00
Deborah Mesch	\$18.68
Denco Corp	\$37,000.00
Donnlee Jackson	\$225.00
Educorr	\$42.00
Eldora Hardware	\$57.89
Fast Lane Motor Parts LLC	\$272.95
Four Oaks Family & Childrens Services	\$373.20
Galls Incorporated	\$235.28
Gary McEwen	\$375.00
Gehrke Quarries, Inc.	\$44,834.52
GovConnection, Inc	\$1,512.66
Greenbelt Home Care	\$70.00
Grundy Co. Memorial Hospital	\$213.10
Hardin Co Tire & Service Inc	\$231.31
Hawkeye West Pest Control	\$59.00
5	-
Heart of Iowa	\$3,254.16
Hy-Vee	\$137.63
ICIT Treasurer	\$60.00
Innovative Ag Services	\$150.00
Innovative Ag Services	\$1,733.15
Iowa Department of Ag & Land	\$75.00
Iowa Dept of Natural Resources	\$50.00
Iowa Falls Fire Extinguisher	\$529.40
Iowa Falls State Bank	\$283,021.87
Iowa HSEMD	\$125.00
Iowa Water Well Association	\$75.00
ISAC	\$200.00

ISSDA	\$650.00
iWorQ	\$5,000.00
Kirk Ridout	\$625.00
Kit Paper	\$40.00
Knight's Sanitation	\$146.00
Kwik Trip Inc	\$28.32
Larry W Johnson	\$91.40
LaVelle Lawn Care	\$2,450.00
LexisNexis Risk Data Mgmt Inc	\$150.00
Mid American Energy	\$13.14
Mid-lowa Community Action Inc.	\$187.50
Midland Power Cooperative	\$231.74
Mike Murphy	\$250.00
Moler Sanitation	\$28.00
MTI Distributing, Inc	\$306.71
NAPA Auto Parts	\$2,831.75
Office Depot	\$279.99
O'Reilly Auto Parts Inc	\$49.98
Police Legal Sciences	\$480.00
Quality Automotive Inc	\$36.50
R Comm Wireless	\$933.00
Racom Corporation	\$408.00
Radcliffe Telephone Co	\$313.57
Reserve Account	\$10,000.00
Ryan McEwen	\$337.50
Safety-Kleen Corporation	\$513.88
Schumacher Elevator Co.	\$501.85
Shield Pest Control	\$180.00
SignMeUp, C/O Member Solutions	\$25.00
South Hardin Signal Review	\$18.00
Speck Electric	\$779.00
Stavanger Lutheran Cemetery	\$148.00
Storey Kenworthy	\$98.47
Summit Food Service LLC	\$7,799.07
Superior Welding Supply	\$45.00
Theisens	\$135.80
Times Citizen	\$304.68
Tina M Schlemme	\$240.00
United States Treasury	\$3,101.84
US Bank Equipment Finance	\$6,297.70
Weiland Lawn Care Service	\$1,112.00
Wesley Wiese	\$40.00
Wilcox Equipment	\$100.64
Windstream	\$327.50
Grand Total	\$502 640 43

Grand Total

\$502,640.43

Ackley Publishing Co. Inc	\$163.31
Alliant Energy	\$1,025.57
Bauer Built Tire	\$11,970.80
Carroll County Sheriff's Offic	\$58.08
CCL Supply	\$1,018.16
Central Iowa Detention Ctr	\$461.99
CenturyLink	\$529.96
Cintas Corporation	\$1,337.05
Clapsaddle-Garber Assoc	\$560.40
Don's Truck Sales Inc	\$221.91
Fareway Food Stores	\$525.46
Franklin County Sheriff	\$181.00
Franklin Rural Elec Co-Op	\$25.25
GECRB/AMAZON	\$2,572.04
Gehrke Inc.	\$763.32
Gehrke Quarries, Inc.	\$12,414.17
GeoComm Inc	\$10,000.00
Hampton Police Department	\$20.00
Hardin Co Tire & Service Inc	\$24.00
Hardin County Office Supplies	\$303.97
la Dept of Transportation	\$565.25
IACCS	\$1,000.00
IICA	\$650.00
Innovative Ag Services	\$94.50
Iowa Falls Auto Body	\$518.00
ISAC	\$1,235.00
Jody L Mesch	\$40.00
John Deere Financial	\$1,089.40
Knight's Sanitation	\$260.00
La Crosse Seed	\$705.00
Marla Kay Williams	\$425.75
Martin Marietta Aggregate	\$25,908.42
Mary F Nelson	\$77.40
Midland Power Cooperative	\$2,069.96
Murphy Tractor & Equipment	\$2,456.28
North Country Waterfowl	\$230.00
Omnicare Inc	\$1,721.37
Polk County Treasurer	\$456.90
Professional Development Academy LLC	\$1,095.00
Quality Automotive Inc	\$57.63
Secretary of State	\$30.00
Sidwell Company	\$7,142.00
Staples	\$151.91
Storey Kenworthy	\$67.05
Summit Food Service LLC	\$4,013.12
The UPS Store	\$150.00
Thomas Craighton	\$185.85
Thomas Investment L.C.	\$701.55
Thomson Reuters - West	\$54.56
Times Citizen	\$116.16
Van Diest Supply Company	\$645.00
Van Wall Equipment	\$19.27
Van Wall Equipment Inc	\$10,522.08
VISA	\$32.09
Walmart Community	\$290.04
Wet Pet Outlet	\$23.00
Wright County Sheriff	\$82.20

Grand Total

\$109,058.18

Board of Supervisors

Hardin County Auditor

APPROPRIATIONS RESOLUTION AMENDMENT

RESOLUTION No. 2019 -

Whereas Hardin County created a new department, Economic Development, on July 29, 2019, and

Whereas the money budgeted for this purpose was in two other County departments, and

Whereas the County needs to move the budgeted dollars into the newly created department and remove them from the previously budgeted departments, and

Whereas the County has held a public hearing on the matter on August 28th as required by law, and

Therefore, the following changes to FY2019-2020 appropriations shall be made:

Office or Department	Amended Appropriation Amount
Supervisors 02	- \$80,000
Nondepartmental 89	- \$112,000
Economic Development 11	+ \$192,000

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

AYES:	 	
NAYS:	 	
ABSENT:	 	
ABSTAIN:	 _	

Whereupon, the Chair of the Board of Supervisors declared said Resolution duly passed and adopted this ______, 2019.

Renee McClellan, Chairman Board of Supervisors

ATTEST:



RESOLUTION:

TAX ABATEMENT

Whereas, Iowa Code Section 445.63 states that when taxes are owing against a parcel owned or claimed by the state or a political subdivision of this state and the taxes were owing before the parcel was acquired by the state or a political subdivision of this state, the county treasurer shall give notice to the appropriate governing body which shall pay the amount of the taxes due. If the governing body fails to immediately pay the taxes due, the board of supervisors shall abate all the taxes.

Whereas, the City of Eldora, was issued a certificate of change of title to the property formerly owned by Daniel Bennet on October 23, 2018 by Quit Claim Deed 2018 2869.

Whereas, the Hardin County Treasurer notified the City of Eldora of delinquent taxes owing by mailing official notice of delinquent taxes May 1, 2019, and

Now therefore, be it resolved that the Board of Supervisors shall cancel the Hardin County tax sale 17223 abate all the following listed net taxes, all interest, and costs on the following property:

The North Half (N1/2) of Out Lot Eleven (11), Moir's Addition, Eldora, Hardin County, Iowa, (Locally known as 1901 14th Ave, Eldora, Iowa)

County of Hardin, Parcel number 871907405006.

\$ 382.00
\$ 392.00
\$ 378.00
\$ 390.00
\$ 36.00
\$ 806.00
\$2,384.00

Passed and approved this 28th day of August 2019.

Renee' McClellan, Chairman Hardin County Board of Supervisors

Attest:

RESOLUTION:

TAX ABATEMENT

Whereas, Iowa Code Section 445.63 states that when taxes are owing against a parcel owned or claimed by the state or a political subdivision of this state and the taxes were owing before the parcel was acquired by the state or a political subdivision of this state, the county treasurer shall give notice to the appropriate governing body which shall pay the amount of the taxes due. If the governing body fails to immediately pay the taxes due, the board of supervisors shall abate all the taxes.

Whereas, the City of Eldora, was issued a certificate of change of title to the property formerly owned by Brian D. Collins and Susan R. Collins on October 25, 2018 by Quit Claim Deed 2018 2869.

Whereas, the Hardin County Treasurer notified the City of Eldora of delinquent taxes owing by mailing official notice of delinquent taxes May 1, 2019, and

Now therefore, be it resolved that the Board of Supervisors shall abate all the following listed net taxes, all interest, and costs on the following property:

The West Half (W ¹/₂) of Lot One (1) and all of Lot Five (5), Block Two (2), Edgington's Addition, Eldora, Hardin County, Iowa, (Locally known as 1504 6th Ave, Eldora, Iowa)

County of Hardin, Parcel number 871907227003.

Net Tax for payable year 2018/2019	\$ 432.00
Cost	\$ 4.00
Interest accrued	\$ 52.00
Total to be abated	\$ 488.00

Passed and approved this 28th day of August 2019.

Renee' McClellan, Chairman Hardin County Board of Supervisors

Attest:



HARDIN COUNTY COURTHOUSE 1215 EDGINGTON AVE. ELDORA, IA 50627

HARDIN C	a dans from Log
Employee Change of	AUG 2 S 2019
Please enter the following change(s) as of	HARDIN COUNTY AUDITOR
Name: Becca Junker	Department: Auditor
Address:	Position: Payroll and Employee Benefits Manager
	Salary/Hourly Rate: \$20,38/hr
Fund:	Weekly Scheduled Hours: 37.5
This position is: 🗌 Exempt 🛛 Non-Exempt	
Status: X Full-time Permanent Part-time	Temporary/Seasonal Part-time
Reason of Change:	
Hired Resignation	
Promotion Retirement	
Demotion Layoff	
Pay Increase Discharge	
Leave of Absence	_
Other: Becca is being reassigned to payroll and employee benefits fro	om drainage. Her background and education is in
employee benefits and HR, and this is a great opportunity for her to wor	k in her chosen field.
Previous pay was \$18.34 as drainage clerk.	
Dates of Employment: 03/27/2019 to To	Last Day of Work
Beyond the last day of work, the following vacation time w	vas (or will be paid): to
Authorized by:	8/216/2019 Date
Authorized by:	
Board of Supervisors	Date



HARDIN COUNTY COURTHOUSE 1215 EDGINGTON AVE. ELDORA, IA 50627

HARDIN CO Employee Change of	
Please enter the following change(s) as of	HARDIN COUNTY AUDITOR
Name: Nancy Lauver	Department:Auditor
Address:	Position: Deputy
	Salary/Hourly Rate: \$48,087
Fund:General Supplemental	Weekly Scheduled Hours: 37.5
This position is: 🛛 Exempt 🗌 Non-Exempt	
Status: 🛛 Full-time 🗌 Permanent Part-time	Temporary/Seasonal Part-time
Reason of Change: Hired Resignation Promotion Retirement Demotion Layoff Pay Increase Discharge Leave of Absence	ible. She has served Hardin County since 1994 and
Dates of Employment: $\frac{08/22/1994}{From}$ to $\frac{10/04/2019}{To}$ Beyond the last day of work, the following vacation time wa	Last Day of Work
Authorized by:Elected Official or Department Head	as (or will be paid): $08/05/2019$ to $10/04/2019$ From To 8/2U/3C(9) Date
Board of Supervisors	Date



HARDIN COUNTY COURTHOUSE 1215 EDGINGTON AVE. ELDORA, IA 50627

HARDIN CO Employee Change of	
Please enter the following change(s) as of	- HARDIN COUNTY AUDITOR
Name: Mindy McLeland Address: Fund: General This position is: X Exempt Non-Exempt	Department: <u>Auditor</u> Position: <u>1st Deputy</u> Salary/Hourly Rate: <u>\$41,682 (65%)</u> Weekly Scheduled Hours:
Status: X Full-time Permanent Part-time	Temporary/Seasonal Part-time
Reason of Change: Hired Resignation Promotion Retirement Demotion Layoff Pay Increase Discharge Leave of Absence	d is being promoted to 1st Deputy.
Dates of Employment:04/02/2001 to	Last Day of Work
Beyond the last day of work, the following vacation time was Authorized by:	From To From To <u> 8/26/2019</u> Date
Board of Supervisors	Date



HARDIN COUNTY COURTHOUSE 1215 EDGINGTON AVE. ELDORA, IA 50627

FILED

AUG 26 2019

HARDIN COUNTY Employee Change of Status Report		
Please enter the following change(s) as of	08/28/2019	HAR

Please enter the followin	ng change(s) as o	Df 08/28/2019 Date	HARDIN COUNTY AUE	ITOR
Name:			Department: Auditor	
Address:			Position: 1st Deputy	
			Salary/Hourly Rate: \$44,889	
Fund: General			Weekly Scheduled Hours: 37.5	
This position is:	Exempt	Non-Exempt		
Status: 🔀 Full-time	Perma	anent Part-time	Temporary/Seasonal Part-time	
Reason of Change:				
Hired Promotion	Resignatio			
Demotion	Layoff			
Pay Increase	Discharge			
Leave of Absence	Dat	es	_	
Other: Tina has resigned he	er position to pursue	e another opportunity ir	the private sector.	
Dates of Employment: _	04/07/2014 1 From	to08/21/2019 To	Last Day of Work 08/21/2019 (if applicable)	
Beyond the last day of w	ork, the followi	ng vacation time w	vas (or will be paid): to	
Authorized by:	<u>MA</u> La Elected Offici	al or Department Head	From To 	ř
Authorized by:	Board	of Supervisors	Date	



Hardin County Courthouse 1215 Edgington Ave. ELDORA, IA 50627

HARDIN CO Employee Change o	
Please enter the following change(s) as of	HARDIN COUNTY AUDITOR
Name: <u>SARAH HENLE</u> Address:	
Fund:	Salary/Hourly Rate: 15.00
This position is: Exempt Non-Exempt	weekly Scheduled Hours.
Status: Full-time Permanent Part-time Reason of Change: Hired Promotion Promotion Layoff Pay Increase Discharge Leave of Absence Dates	Temporary/Seasonal Part-time
Dates of Employment: to From To To Beyond the last day of work, the following vacation time wa	Last Day of Work
Authorized by:	22Aug/9 (Date
Authorized by: Board of Supervisors	Date



0 8	diama to	
AUG.	23	2019

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Please enter the following change(s) as of	HARDIN COUNTY AUDITOR
Name: ELIZABETH GLADE	Department: COMMUNICATIONS
Address:	Position: DISPATCH
	Salary/Hourly Rate:
Fund:001-05-1040-000-10112	Weekly Scheduled Hours:
This position is: Exempt Non-Exempt	
Status: 🗌 Full-time 🔀 Permanent Part-time	Temporary/Seasonal Part-time
Reason of Change:	
Hired Resignation	
Promotion Retirement	
Demotion Layoff	
Pay Increase Discharge	
Leave of Absence	_
Dates	
Other: STARTING AT \$15/HR	
Dates of Employment: to	Last Day of Work
	(if applicable)
Beyond the last day of work, the following vacation time w	
Authorized by: Authorized by: Authorized Official or Department Head	From To <u> 260704/9</u> Date
Authorized by:Board of Supervisors	Date



1113	2	6	2019

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Please enter the following change(s) as of	HARDIN COUNTY AUDITOR
Name: SARA KNOTT	Department: COMMUNICATIONS
Address:	Position: DISPATCH
	Salary/Hourly Rate: 15.00
Fund:0001-05-1040-000-10112	Weekly Scheduled Hours:
This position is: Exempt INon-Exempt	
Status: 🗌 Full-time 🕅 Permanent Part-time	Temporary/Seasonal Part-time
Reason of Change: Hired Resignation Promotion Retirement Demotion Layoff Pay Increase Discharge Leave of Absence Dates	_
Other: PART TIME \$15.00/HR Dates of Employment: to	From To 26 Apry 19 Days
Board of Supervisors	Date

Please enter the f	ollowing char	ge(s) as of: <u>08-22-</u>	2019	AUG 2 8 2019
Name:	<u>Jones, Kir</u>	nberly		HARDIN COUNTY AUDITOR
Address:	<u>New Provi</u>	dence, IA 50206		
Department: <u>She</u> Fund Gross		Pos	ition: <u>Correctio</u>	onal Officer
Salary or Hourly F	Rate: <u>\$15.00/ł</u>	<u>ır</u>		
STATUS ()	Full-time	(<u>X</u>) Permanent F	Part-time	()Temporary/Seasonal Part-time
Reason for chang () Hired () Promotion () Demotion () Pay Increase () Leave of abso		(<u>X</u>) Resignation () Retirement () Layoff () Discharge		
() Other:	(date	9)		
Dates of Employm Last day of work v		<mark>5-16-18</mark> To <u>08-22</u> 19	<u>2-19</u>	
Beyond the last da	ay of work, the	e employee was (or	will be) paid for	: <u>None</u>
Vacation: Comp: Authorized by:/		icial of Department Hea	Da Da	te: 08/21/2019
Approved by:	Appropriate	e Board (If Applicable)	Da	te:

FILED AUG 9 8 2019

Please enter the fol	llowing change(s) as	of: 08-21-2019	AUG 2 🗄 2019
Name:	Sederburg, Korey	Benjamin	HARDIN COUNTY AUDITOR
Address:	<u>Garwin, IA 50158</u>		
Department: <u>Sheri</u> Fund Gross	ff's Office		ectional Officer
Salary or Hourly Ra	ate: <u>\$15.00/hr</u>		
STATUS () F	ull-time (X)P	ermanent Part-time	()Temporary/Seasonal Part-time
Reason for change (<u>X</u>) Hired () Promotion () Demotion () Pay Increase () Leave of absen	()R ()R ()L ()D	esignation etirement ayoff ischarge	
() Other:			
Dates of Employme Last day of work wi			
Beyond the last day	of work, the employ	ee was (or will be) pa	d for:
Vacation: Comp: Authorized by:		partment Head	Date:08/21/2019
Approved by:	Appropriate Board (If	Applicable)	Date:

FILED



620 Country Club Road Iowa Falls, Iowa 50126 Office: (641) 648-7300 Fax: (641) 648-7310 www.pinnacleiowa.com

August 20, 2019

Re: Corner Pork Site

Attached you will find a Manure Management Plan, Construction Design Statement and Master Matrix for the Corner Pork Site.

The site does require a Master Matrix that you will find enclosed with a passing score. We will be attending the site visit with the DNR and we will attend the Supervisor meeting and any public hearings. Please sign the enclosed county verification and fax back to 641-648-7310 or e-mail to jean@pinnacleiowa.com. In the meantime, if you have any questions please call us at 641-648-7300.

Thank You,

Kent Revuse

Kent Krause Cell 515-571-7816

Iowa Department of Natural Resources



Construction Permit Application Form

Confinement Feeding Operations

INSTRUCTIONS:

Prior to constructing, installing, modifying or expanding a confinement feeding operation structure¹, 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. An existing confinement feeding operation (answer all of the following questions):
 - a) Facility ID No. (5 digit number):
 - b) Date when the operation was first constructed:
 - c) Date when the last construction, expansion or modification was completed:

(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

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

A)	Name of ope	ration: <u>Corne</u>	r Pork			<u>-</u>	
	Location:	SW	SE	27	T89N R22W	Alden	Hardin
		(1/4 1/4)	(%)	(Section)	(Tier & Range)	(Name of Township)	(County)
B)	Applicant info	ormation:					
	Name: Gr	ow Iowa, LLC			Title:		
	Address:	16922 Co Rd S27 A	Alden, IA 500	06		de Merilio	
	Telephone:	641-456-8477	Fax:	<u> </u>	Email:		
2)	Person to cor	itact with questio	ns about this	application (if c	lifferent than applic	ant):	
	Name:	Kent Krause	- <u></u>		Title:		
	Address:	620 Country C	lub Rd Iowa I	Falls, IA 50126		6	-0
	Telephone:	641-648-7300	Fax:	641-648-73	10 Email:	kkrause@pinnacleiowa	

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:

1)	Karst Determination: Go to DNR AFO Siting Atlas at http://programs.iowadnr.gov/maps/afo/. Search for your site by either
	scrolling into your location or entering an address or legal description in the bottom search bar. Left click on the location of your
	proposed structure. Make sure the karst layer box is checked on the map layers. If you cannot access the map, or if you have
	questions about this issue, contact the AFO Engineer at (712) 262-4177. Check one of the following:

57	
M	The site is not in karst or potential karst. Print and enclose the map with the name and location of the site clearly marked.
П	The site is in karst. The upgraded concrete standards of 567 IAC 65.15(14)"c" must be used. Refer to "Applicant's submittal
	the state of the master in a special contract standards of 507 AC 05.15(14) C must be used. Relet to Applicant's submittal
	checklist" on page 10 for karst documentation.

B) Alluvial Soils Determination: Go to the AFO Siting Atlas as described above. Make sure the alluvial layer box is checked on the 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.

The site is in alluvial soils. You will need to submit a request for a flood plain determination from DNR Flood Plain (866) 849-0321. After receiving determination submit one of the following:

- Not in 100-year floodplain or does not require a flood plain permit. Include correspondence from the DNR Flood Plain Section.
- Requires flood plain permit. Include flood plain permit.

Documentation has been submitted to determine site is not in alluvial soils. Refer to "Applicant's Submittal Checklist" on page 10 for alluvial soils documentation.

ITEM 3 – OPERATION INFORMATION:

- A) A construction permit is required prior to any of the following:
 - 1. Constructing or modifying any unformed manure storage structure³, constructing or modifying a confinement building that uses an unformed manure storage structure³, or increasing animal units in a confinement building that uses an unformed manure storage structure.
 - 2. 🔀 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.
 - 3. Initiating a change that would result in an increase in the volume of manure or a modification in the manner in which manure is stored in any unformed manure storage structure³, even if no construction or physical alteration is necessary. Increases in the volume of manure due to an increase in animal capacity, animal weight capacity or AUC up to the limits specified in a previously issued construction permit do not require a new construction permit.
 - 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.
 - 8. 🔲 Installing a permanent manure transfer piping system, unless the department determines that a construction permit is not required.

The site is within 1,000 feet of a known sinkhole, Secondary Containment Barrier is required in accordance with 567 IAC 65.15(17).

³ Unformed manure storage structure = covered or uncovered anaerobic lagoon, earthen manure storage basin, aerobic earthen structure. 04/2018 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:

I will be building a two building site to house 5000 head of hogs.

- 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. 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 for the purpose of determining a qualified operation.
 - 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. 🔀 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 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.

Animal Species	a) Existing AUC (Before permit)		b) Total Proposed AUC (After permit)		AUC		
	(No. Head)	x (Factor)	= AUC	(No. Head)	x (Factor)	= AUC	1
laughter or feeder cattle		1.0			1.0	1	1
Immature dairy cattle		1.0	1		1.0		1
Mature dairy cattle		1.4			1.4	1	
Gestating sows		0.4			0.4	1	1
Farrowing sows & litter		0.4			0.4	2	1
Boars		0.4	1		0.4	1	Note: If the "Existing AUC"
Gilts		0.4	1	Î	0.4	1	(column a) is 500 AU or less,
Finished (Market) hogs	0	0.4	0	5000	0.4	2000	enter the "Total proposed AUC" (column b) in the "New
Nursery pigs 15 lbs to 55 lbs		0.1	1		0.1	1	AU" (column c)
Sheep and lambs		0.1	-	=	0.1	19	
Goats		0.1	1		0.1		1
Horses		2.0		1	2.0		
Turkeys 7 lbs or more		0.018	100		0.018	1	1
Turkeys less than 7 lbs		0.0085			0.0085		
Broiler/Layer chickens 3 lbs or more	1	0.01		1	0.01		
Broiler/Layer chickens less than 3 lbs		0.0025		j.	0.0025		
Ducks	1	0.04	0	1	0.04		
Fish 25 grams or more		0.001			0.001		
Fish less than 25 grams	5	0.00006			0.00006		c) New AU = b) - a):
TOTALS:	a) E	ixisting AUC:	0		oposed AUC:	2000	2000

(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 verage weight (lbs) during the production cycle. Then add the AWC if more than one animal species is present (examples on how to determine the AWC are provided in 567 IAC 65.1(455B).)

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

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

Table 2. Annual Treight capacity ()		(No. neau)	(785. 10	cigin, jusj - P	(VVC, IUS		
Animal Species	a) Existing AWC (Before Permit)			b) Proposed AWC (After permit)]
	(No. head) x	avg weight	= AWC	(No. head) x	avg weight	= AWC	1
Slaughter or feeder cattle							1
Immature dairy cattle						10	1
Mature dairy cattle	1				1	1	1
Gestating sows					1	ł.	1
Farrowing sows & litter							1
Boars							
Gilts							1
Finished (Market) hogs				1			1
Nursery pigs 15 lbs to 55 lbs							1
Sheep and lambs							1
Goats				2			1
Horses							1
Turkeys 7lbs or more							1
Turkeys less than 7 lbs							1
Broiler/Layer chickens 3 lbs or more							1
Broiler/Layer chickens less than 3 lbs		<u>6 8 5</u>					
Ducks							1
ish 25 grams or more							1
Fish less than 25 grams							c) New AWC = b) - a):
TOTALS:	a) E	xisting AWC:		b) Total propo	osed AWC:		

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:

- A) X Formed manure storage structures²: The proposed confinement feeding operation structure¹ will be or will use a formed manure storage structure². Check one of the following boxes:
 - 1. A swine farrowing and gestating operation with an AUC of 1,250 AU or more. Use Submittal Checklist No. 2 (page 13).
 - 2. 📙 A swine farrow-to-finish operation with an AUC of 2,750 AU or more. Use Submittal Checklist No. 2 (page 13).
 - 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).
 - 5. X None of the above. Use Submittal Checklist No. 1 (page 10).

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).

B) Unformed manure storage structure³: The proposed confinement feeding operation structure¹, will be or will use an 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- 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.

ITEM 7 – SIGNATURE:

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

Signature of Applicant(s):	Grow Jowa, LLC.	Date: 8/20/19
	By: Piker Kouse Ment	

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). 04/2018 cmc 5

ITEM 8

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
Grow Iowa,LLC	16922 Co Rd S27	Alden, IA	50006
			<u>.</u>

For each name above, please list below all other confinement feeding operations in lowa 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
None [There are no other	confinements in lowa in which the above listed person(s) has or have an inter	rest].

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

Signature of Applicant(s): <u>Grow Town, LLC</u>. Date: <u>S/20/19</u> Ry: Park, C. Krause

ITEM 9

Manure Storage Indemnity Fee Form for Construction Permits

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

Credit fees to: Grow Iowa, LLC

Name of operation: Corner 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

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

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		x	\$ 0.04 =	
	2	Other		x	\$ 0.10 =	
1,000 AU or more to less than 3,000 AU	3	Poultry		x	\$ 0.06 =	
	4	Other	2000	х	\$ 0.15 =	300
2 000 All or more	5	Poultry		x	\$ 0.08 =	
3,000 AU or more	6	Other		x	\$ 0.20 =	

Filing Fees Form for Construction Permits

CASHIER'S USE ONLY 0473-542-473A-0431 0474-542-474A-0431 Facility ID # County

Credit fees to: Grow Iowa,LLC

|--|

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)
- 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 change \$

4. Total filing fees: Add the fees paid in items 1, 2 and 3 (above): \$ 500

SUMMARY:	
- Manure Storage Indemnity Fee (see previous page) to be deposited in the Manure Storage Indemnity Fee Fund (474)	\$ 300
- Total filing fees (see item 4 on this page) to be deposited in the Animal Agriculture Compliance Fund (473)	\$ 500.00
TOTAL DUE:	\$ 800.00

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.

ITEM 10

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:G	row lowa, LLC				Telephone:	641-456-8477
Name of opera	ition: Corner F	Pork				
Location:	SW	SE	27	T89N R22W	Alden	Hardin
	(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)
- 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).
- Attachment 2 Statement of design certification, submit any of the following (see Checklist No. 1 or 2):
 - 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.
- Attachment 3 Manure management plan (MMP).
- 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	Hordin	EILED
NAME:	Mindy Mcleland	01 2019
TITLE:	Cleve	AUGZIE
	(Member of the County Board of Supervisors or its designated official/employee)	AUDITO AUDITO
)ate:	8-21-,2019	HARDIN COUNTY AUDITOR
if you do	not receive the courtesy reminder letter within a reasonable time, or if you have any o	uestions, please contact the animal

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>



Construction Design Statement (CDS)

Instructions:

- 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).
- 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:	_Corner P	ork			Faci	ity ID No.: <u>N/A</u>	
Location:	SW	SE	27	T89N R22W	Alden	Hardin	
	(1/4 1/4)	(%)	(Section)	(Tier & Range)	(Name of Township)	(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:

Two 71' 2" x 277' x 8' deep, below ground, covered, formed concrete manure storage tanks will be built.

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

top of concrete 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.

^{*} Confinement feeding operation structure = A confinement building, a formed or unformed manure storage structure, or an egg washwater storage structure.

Note: If a master matrix is required, the photos must also show that the additional separation distances required for any points claimed in matrix criteria one through ten will be met for the objects listed above. Note the additional separation distance by drawing a straight line between the proposed structures and the matrix item.

Karst Determination: Go to DNR AFO Siting Atlas at http://programs.iowadnr.gov/maps/afo/. Search for your site by either scrolling into your location or entering an address or legal description in the bottom search bar. Left click on the location of your proposed structure. Make sure the karst layer box is checked on the map layers. If you cannot access the map, or if you have questions about this issue, contact the AFO Engineer at 712-262-4177. Check one of the following:

🔀 The site is not in karst or potential karst. Print and enclose the map with the name and location of the site clearly marked. The Siting Atlas has indicated that the site is in karst. The upgraded concrete standards of 567 IAC 65.15(14)"c" must be used. Complete and sign Section 3.H (page 5).

- 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.
 - 11 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. Grow Journ , LLC

Owner's Name (print)

By: Part the Owner's Signature

8/20/19

ection 3 - Construction design standards: The person responsible for constructing the formed manure storage structure(s)³ must complete Section 3.

- A) Liquid and semi-liquid manure: The proposed formed manure storage structure³ will be (check one):
 - A.1 🔀 A non-circular concrete tank, belowground, with walls laterally braced or below the building concrete pit designed according to 567 IAC Chapter 65, Appendix D.
 - A.2 A non-circular concrete tank, belowground, walls designed according to MidWest Plan Service (MWPS), publication MWPS-36. Include design calculations.
 - A.3 A circular concrete tank, walls designed according to MidWest Plan Service (MWPS), publication MWPS TR-9. Include design calculations.
 - 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: two Building name: swine finisher

Dimensions of proposed formed manure storage structure³

		Length	Width	Height or depth	Wall thickness	Diameter (circular tanks only)
	Feet	277	71	8	0	N/A
1	Inches		2		8	N/A

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. 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).
-) 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. <u>Minimum as-placed concrete compressive strength (check the following box):</u>

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.

- 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.
- 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:

County: Hardin Name of operation: Corner Pork Owner's name: $Grow Iow_{A}$, LLCwill be constructed in accordance with these minimum requirements. Included with this certification are:

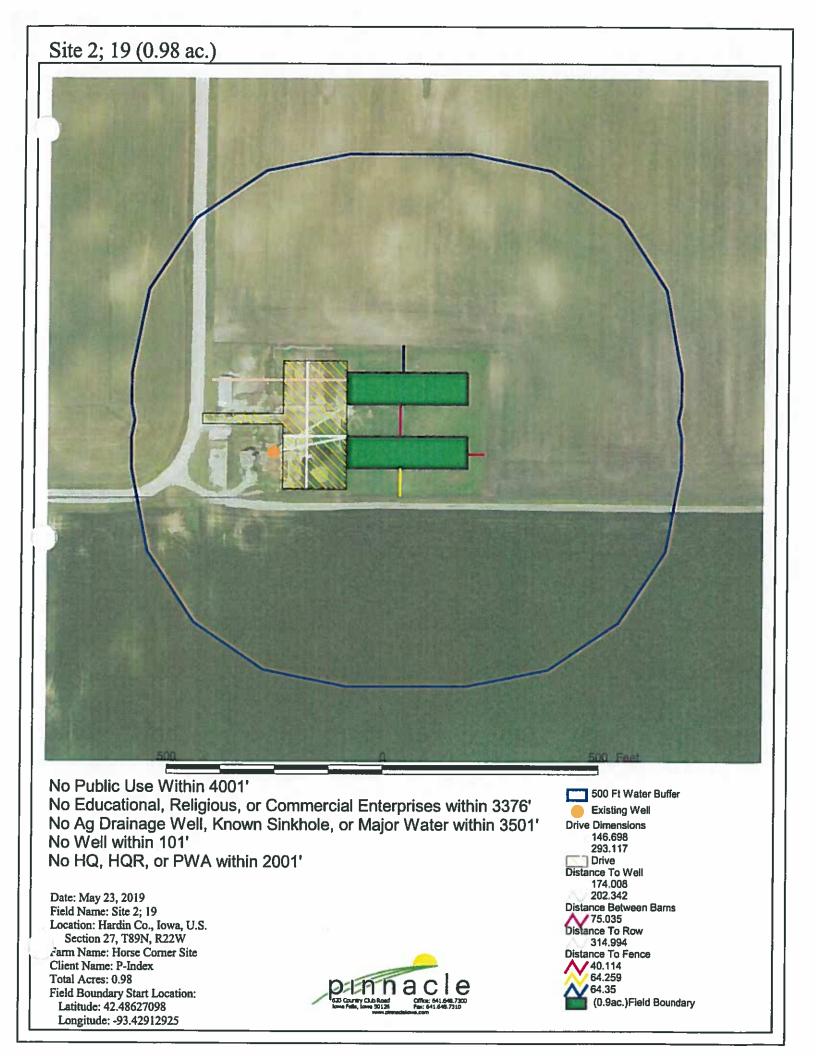
Page 3, for each formed manure storage structure³ that have different dimensions Pages 4 to 6 (applicable sections)

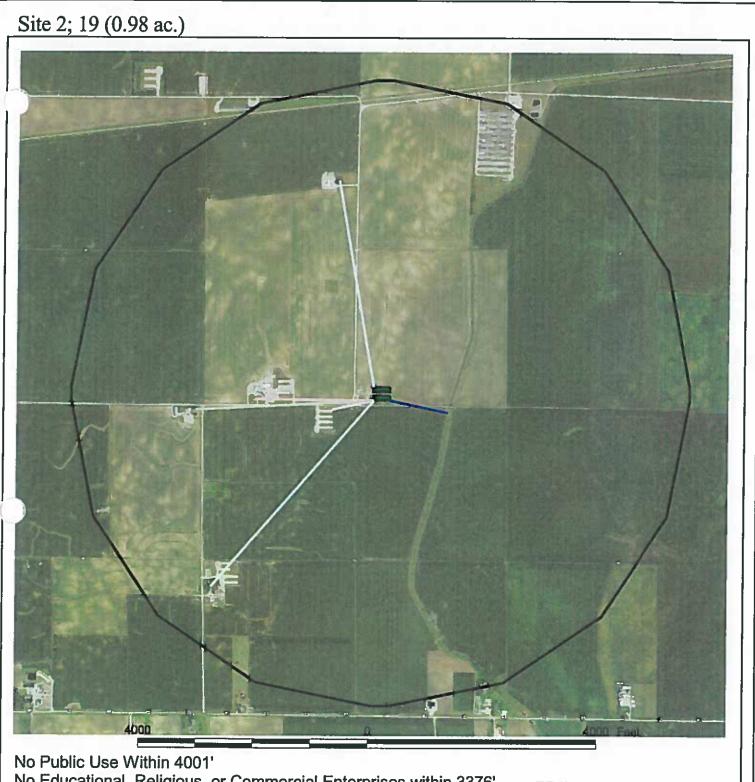
Brent V. Restetter	het Washelling	
(Print name)	(Signature)	(Date)
Quality Aq, Inc.	15481 Huy D20, Alden, IA 50006	515-859-7824 ext. 1
(Company) V V	(Address)	(Phone No.)
	(See page 6 for mailing instructions)	

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





No Educational, Religious, or Commercial Enterprises within 3376' No Ag Drainage Well, Known Sinkhole, or Major Water within 3501' No Well within 101' No HQ, HQR, or PWA within 2001'

Date: May 23, 2019 Field Name: Site 2; 19 Location: Hardin Co., Iowa, U.S. Section 27, T89N, R22W Farm Name: Horse Corner Site Client Name: P-Index Total Acres: 0.98 Field Boundary Start Location: Latitude: 42.48627098 Longitude: -93.42912925



☐ 1 Mile
 Distance To Residence
 2059.998
 3116.236
 3621.514
 4281.905
 Distance To Closest CAFO
 747.934
 Distance To Water
 1045.413
 (0.9ac.)Field Boundary









Petition for a Flood Plain Determination or Flood Plain Declaratory Order

For confinement feeding operations using formed storage as required by 567 Iowa Administrative Code (IAC) 65.8(3) "d" and "e" and 65.9(4) "b"

The purpose of this petition is to ask the DNR to determine if the proposed location is on a "one hundred year flood plain", as defined in 567 IAC 65.1. "One hundred year flood plain" means the land adjacent to a major water source, if there is at least a 1 percent chance that the land will be inundated in any one year.

An owner must file a petition for a Flood Plain Determination or a Declaratory Order if both of the following apply: 1) when planning to build, expand or modify a confinement feeding operation that will be using formed storage; and 2) when the proposed location is on alluvial soils or alluvial aquifer as determined by using the AFO Siting Atlas at http://www.iowadnr.gov/Environmental-Protection/Land-Quality/Animal-Feeding-Operations/Mapping/Proper-AFO-Siting.

1. Calculate animal units by using the total number of head proposed after expansion in the chart below. The total proposed head should include any other confinement within 2,500 feet if the combined AU is greater than 1,000.

	Confineme	nt Buildings	
Animal Type	Total No. Head Proposed after Expansion	x Multiplier	= AUC
Cattle (other than mature dairy cows) which includes beef cattle, steers, cow- calf pairs, dairy heifers, veal calves or immature dairy cows		1.0	
Mature dairy cows (milked or dry)		1.4	_
Swine, 55 lbs or more	5400	0.4	2160
Swine nursery, 15 to 55 lbs	-	0.1	
Sheep and goats, including lambs		0.1	
Chicken broilers, 3 lbs or more		0.01	
Chicken broilers, less than 3 lbs		0.0025	
Chicken layers, 3 lbs or more		0.01	
Chicken layers, less than 3 lbs		0.0025	
Turkeys, 7 lbs or more		0.018	
Turkeys, less than 7 lbs		0.0085	
Horses		2.0	

Flood Plain Determination (greater than 1,000 AU)

Flood Plain Declaratory Order (less than 1,000 AU)

3. Include all of the following information:

Horse Corner

N/A

(Name of the facility)
SW1/4, SE1/4, 27, T89N, R22W, Alden Township , Hardin County
(Legal description of the site:½ ½ Section, Tier, Range, Township Name and County)
2 71'x277' Barns
(Dimensions of the proposed structure)
(Dimensions of the proposed structure)
(Type of animals, number of head and animal units (existing and proposed.))

4. X Attach the aerial photo from the AFO Siting Atlas with the footprint of the proposed structure(s) clearly marked and the alluvial soils layer shown. Show and label all separate manure storage structures or egg wash water storage structures.

(Street Address) (Owr

Alden, IA 50006

05/2016 cmc

(City, State, Zip Code)

Please email the petition to:

Colleen.Conroy@dnr.iowa.gov

5. List or describe why you think the proposed site is or is not located on the "one hundred year flood plain".

The Site does not flood

6. Indicate whether the owner is currently a party to another proceeding involving the questions at issue and whether, to the owner's knowledge, those questions have been decided by, are pending determination by, or are under investigation by, any governmental entity.

N/A

7. List below the names and addresses of other persons, or a description of any class of persons, known by owner to be affected by, or interested in, the questions presented in the petition.

N/A

8. State whether or not you would like to request a meeting with the DNR Flood Plain Management Program (as provided for by 561 IAC 6.7).

No

9. Name of Owner or Owner's representative: Kent Krause

(by typing or signing your name, you are accepting responsibility for the accuracy of all information provided in this petition.)

10. Return Address- this is where responses will be sent:

Kent Krause

(Print owner's/representative's name)

620 Country Club Rd.

(Owner's/representative's email address)

641-456-8477

(Owner's phone number)

(Owner's email address)

Or send the petition by mail to:

Colleen Conroy Iowa Department of Natural Resources 502 East 9th Street Des Moines, Iowa 50319-0034

644 640 70

(Owner's/representative's phone number)

641-648-7300

try Club Rd

Iowa Falls, IA 50126

(City, State, Zip Code)

(Street Address)

11. Owner's Name and Address (if different from Item 10): Parker Krause

Parker Krause

(Print owner's name)

(Print ow 16922 Co Rd S27

Drew Abbas

rom:Conroy, Colleen <colleen.conroy@dnr.iowa.gov>Sent:Friday, July 26, 2019 2:46 PMTo:Drew AbbasCc:Kent KrauseSubject:(WR 87961) Re: Horse Corner Flood Plain Determination

Tracking Number: 87961

Your application was logged under the tracking number listed above. Please use the assigned tracking number on all future correspondence for this project.

If the total number of Animal Units is less than 1000, your request will be reviewed within 30 days.

If the total number of Animal Units is 1000 or greater, your request will be reviewed in the order it was received.

This correspondence does not constitute approval. When review has been completed a letter or email concerning the Flood Plain determination will be sent.

Thank you,



Colleen Conroy | Administrative Assistant lowa Department of Natural Resources P 515-725-8268 | F 515-725-8202 502 E 9th St, Des Moines IA 50319 www.iowadnr.gov

On Mon, Jul 22, 2019 at 10:47 AM Drew Abbas <<u>dabbas@pinnacleiowa.com</u>> wrote:

Colleen,

I have attached a Flood Plain Determination Petition for a new site in Hardin County.

Let me know if you have any questions.

Thanks,

Drew Abbas

Mapping Specialist

The Pinnacle Group, LLC

620 Country Club Rd

Iowa Falls, IA 50126

Phone 641-648-7300

Fax 641-648-7310

This message originated outside of Pinnacle's email system. Use caution if this message contains attachments, links or requests for information. Verify the sender before opening attachments, clicking links or providing information.

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.

2059 - 1875 - 184	Score	Air	Water	Community
250 feet to 500 feet	25	16.25		8.75
501 feet to 750 feet	45	29.25		17.50
751 feet to 1,000 feet	65	42.25		22.75
1,001 feet to 1,250 feet	85	55.25		29.75
1,251 feet or more	100	65.00		35.00

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

2500 1501 - Non with 1901	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	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.

1875 - 1501 - 3376	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	25	10.00		15.00
1,501 feet or more	(30)	12.00		18.00

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

1045 - 500 = 545	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	í
1,251 feet to 1,500	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.

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

proug	nfare.	2101	

318	Score	Air	Water	Community
300 feet or more	30 /	9.00		21.00

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

2500 1 500	None within 2		Score	Air	Water	Community
500 feet or more		1	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 distance.

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	
Two times the minimum separation distance	30		24.00	6.00	
Refer to Table 6 of 567 Chapter 65 for minimum required concretion distances to wells					

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

8. Additional separation distance, above the minimum requirement of 1,000 feet, from proposed confinement structure to the closest:

- * Agricultural drainage well,
- Known sinkhole, or
- * Major water source.

1000 + 2501 - Mone 1/1/ 3501	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
Three-quarter of a mile or more (3,960 feet)	25	7.50	7.50	10.00
		444		

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

1000X2 None WAKIN 2000'	Score	Air	Water	Community
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.iowadnr.gov/Recreation/CanoeingKayaking/StreamCare/ProtectedWaterAreas.aspx
- 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		4.00e	

(A) OFFSET can be found at

http://www.extension.umn.edu/agriculture/manure-management-and-air-guality/feedlots-and-manure-storage/offs et-odor-from-feedlots/. 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
Covered liquid manure storage	(30)	27.00		3.00

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

13. Construction permit application contains design, construction, operation and maintenance plan for emergency containment area at manure storage structure pump-out area.

	Score	<u> </u>	Water	Community	
Emergency containment area	20		18.00	2.00	l

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

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

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

15. Utilization of landscaping around confinement structure.

	Score	Air	Water	Community		
Utilization of Landscaping	20	10.00		10.00		
The design operation and maintenance also for the landscening must be in the construction power						

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 activities, such as an impermeable pad and a roof or cover.

	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 aeration is not already required by the department.

	Score	Air	Water	Community
Aerated manure storage structure	10	8.00		2.00

- (A) Aerobic structure an animal feeding operation structure other than an egg wash water 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.
- 19. Proposed confinement site has a suitable truck turnaround area so that semitrailers do not have to back into the facility from the road

	Score	Air	Water	Community
Truck turnaround	(20)			20.00

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

	Score	Air	Water	Community	
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 proposed confinement structure is to be constructed

- 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	

- (A) Proof of Homestead Tax Exemption is required as part of the construction permit application.
- (B) Applicant includes 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.

23. Construction permit applicant can lawfully claim a Family Farm Tax Credit for agricultural land where the proposed confinement feeding operation is to be located pursuant to Iowa Code chapter 425A.

	Score	Air	Water	Community
Family Farm Tax Credit qualification	25			25.00

Applicant includes 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.

5000×4=2,000	Score	Air	Water	Community
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.
- 25. Construction permit application includes livestock feeding and watering systems that significantly reduce manure volume.

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

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 <u>one</u> score under each criterion that best reflects the characteristics of the submitted manure management plan.

26. Liquid or dry manure (choose only one subsection from subsections "a" - "e" and mark one score in that subsection).

		Score	Air	Water	Community
а.	Bulk dry manure is sold under lowa Code Chapter 200A and surface-applied	15		15.00	_ _
	Bulk dry manure is sold under Iowa 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 an approved department manure management plan	10	4.00	4.00	2.00
	Dry manure is composted and sold so that no manure is applied under the requirements of an approved department manure management plan	30	12.00	12.00	6.00
			_		
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
	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
			L I		
d.	Dry manure is completely burned to generate energy and no remaining manure is applied under the requirements of an approved department 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.
- 29. Land application of manure does not occur on highly erodible land (HEL), as classified by 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 son	retruietion	normit on	aliantina a	ad made a

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

- 30. Additional separation distance, above minimum requirements (0 or 750 feet, see below), 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	L
Additional separation distance of 200 feet	5	3.25		1.75	l
Additional separation distance of 500 feet	10	6.50		3.50	1

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

- 32. Additional separation distance, above minimum requirements (0 or 750 feet, see below), for the land application of manure to the closest:
 - Educational institution,
 - Religious institution, or
 - * Commercial enterprise.

	Score	Air	Water	Community
Additional separation distance of 200 feet	5	2.00	I. I.	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	l
Additional separation distance of 50 feet or well is properly closed	10		8.00	2.00	

(A) Minimum separation distance for land application of manure injected or incorporated on the same date as application or 50-foot vegetation buffer exists around well and manure is not applied to the buffer: 0 feet.

(B) Minimum separation distance for land application of manure broadcast on soil surface: 200 feet.

(C) If applicant chooses to close the well; the well closure must be incorporated into the construction permit application and made a condition in the approved construction permit.

34. Additional separation distance, above minimum requirements, for the land application of manure to the closest:

- * Agricultural drainage well,
- Known sinkhole,
- * Major water source, or

* Water source

	Score	Air	Water	Community
Additional separation distance of 200 feet	5	0.50	2.50	2.00
Additional separation distance of 400 feet	(10)	1.00	5.00	4.00

(A) "Agricultural drainage wells" - include surface intakes, cisterns and wellheads of agricultural drainage wells.

- (B) "Major water source" a lake, reservoir, river or stream located within the territorial limits of the state, or any marginal river area adjacent to the state, which can support a floating vessel capable of carrying one or more persons during a total of a six-month period in one out of ten years, excluding periods of flooding. Major water sources in the state are listed in Tables 1 and 2 in 567--Chapter 65.
- (C) "Water source" a lake, river, reservoir, creek, stream, ditch, or other body of water or channel having definite banks and a bed with water flow, except lakes or ponds without an outlet to which only one landowner is riparian.
- (D) The additional separation distances must be in the construction permit application and made a condition in the approved construction permit.

- 35. Additional separation distance above minimum requirements, for the land application of manure, to the closest:
 * High quality (HQ) water,
 - * High quality resource (HQR) water, or
 - * Protected water area (PWA).

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

- (A) HQ waters are identified in 567--Chapter 61.
- (B) HQR waters are identified in 567-Chapter 61.
- (C) A listing of PWAs is available at: <u>http://www.jowadnr.gov/Recreation/CanoeingKayaking/StreamCare/ProtectedWaterAreas.aspx</u>.
- 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.
- 38. Applicant signs a waiver of confidentiality allowing public to view confidential manure management plan land application records

	Score	Air	Water	Community		
Manure management plan confidentiality waiver	5			5.00		
The waiver of confidentiality must be in the construction permit application and made a condition in the						
approved construction permit. The applicant may limit public inspection to reasonable times and places.						

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

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

	Score	Air	Water	Community
Economic value to local community	10		-	10.00
		4.4		

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	25 /		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.

42. Adoption and implementation of an environmental management system (EMS) 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.
- 43. Adoption and implementation of NRCS approved Comprehensive Nutrient Management Plan (CNMP).

	Score	AIr	vvater	Community
CNMP	10	3.00	3.00	4.00
The implementation and continuation of a CNMP must be in the	constructi	on permit	applicatio	n and

- made a condition in the approved construction permit.
- 44. Groundwater monitoring wells installed near manure storage structure, and applicant agrees to provide data to the department.

	Score	Air	Water	Community	
Groundwater monitoring	15		10.50	4.50	

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

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

· · ·	otal core	Air	Water	Community
8	80	213.50	271.00	404.50
4	40	53.38	67.75	101.13

Score to pass

Corner Pork

8/14/2019

APPENDIX C MASTER MATRIX

Question 1	Score 0	<u>Air</u>	Water	Community		
	30	12	0	0	-	
2 3	30		0	18	-	
		12	0	18	4	
4 5	10 30	0	10	0	4	
6		9	0	21	-	
C DALKS 7 HOULES	10	4	0	6		
8	50					
9	0	5	25	20	4	
10		0	0	0	-	
11	30	0	22.5	7.5		
12	30	27	0	3		
13	0	0	0	0	•	
14	0	0	0	0	•	
15	0	0	0	0		
15	0	0	0	0		
17	30	0	27	3		
18	0	0	0	0		
19	20	0	0	20		
20	30	0	0	30		
21	0	0	0	0		
22	0	0	0	0		
23	0	0	0	0		
24	20	0	0	20		
25	25	0	12.5	12.5		
26	30	12	12.5	6	Only for: "b,c, or d"	Only for "a & e"
27	0	0	0	0	Only for. Dic, of a	Unit the a die
28	0	C.	0	0		
29	10	0	10	0		
30	0	G	0	0		
31	5	2	0	A LOUG CHINA		
32	0	0	0	0		
33	10	0	8	2		
34	10	6 10 S 4 5	A SAME A CAMP	4		
35	10	0	7.5	2.5		
36	0	0	0	0		
37	10	Ó	0	10		
38	0	0	O I	disc. of		
39	0	0	0	0		
40	5	0	25	25		
41	5 1	0	14576 180	25.00		
42	0	0	0	0		
43	0	0	0	0	9	
44	0	0	0	0		
<u>Total</u>	<u>440</u>	<u>84</u>	<u>144.5</u>	<u>211.5</u>		
Total to Pass	<u>440</u>	<u>53.38</u>	<u>67.75</u>	<u>101.13</u>		
Requires: "Desigr	Operation	and Maite	nance Pla	n"		
and and a boolgi	- openedor	and well				
Carl and a second s	rting Docun		22 0 0 0	11 St. 19		

567 IAC 65.11(455B), Table 6

Minimum separation distances for a new confinement feeding operation or expansion of an operation constructed on or after March 1, 2003

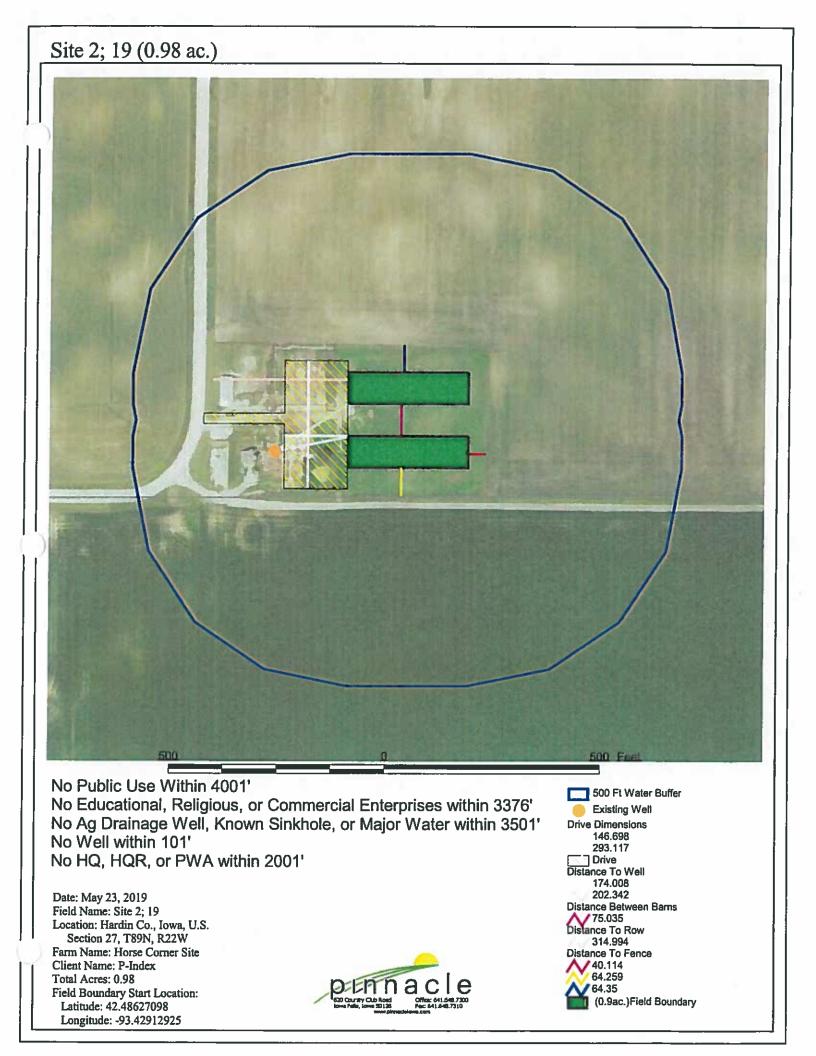
Type of Structure (liquid, semi-liquid	Total Animal Unit Capacity		nesses, Churches, ools	Public use areas	
and dry manure storage)	(AUC) (AU)	Unincorporated Areas	Incorporated Areas		
	500 AU or less	1,875 feet	1,875 feet	1,875 feet	
Anaerobic lagoons and uncovered	501 AU to < 1,000 AU	1,875 feet	1,875 feet	1,875 feet	
earthen manure storage basins	1,000 AU to < 3,000 AU	2,500 feet	2,500 feet	2,500 feet	
	3,000 AU or more	3,000 feet	3,000 feet	3,000 feet	
	500 AU or less	1,250 feet	1,875 feet	1,875 feet	
Covered earthen manure storage	501 AU to < 1,000 AU	1,250 feet	1,875 feet	1,875 feet	
basins	1,000 AU to < 3,000 AU	1,875 feet	2,500 feet	2,500 feet	
	3,000 AU or more	2,375 feet	3,000 feet	3,000 feet	
	500 AU or less	None	None	None	
Uncovered formed manure storage	501 AU to < 1,000 AU	1,500 feet	1,875 feet	1,875 feet	
structures	1,000 AU to < 3,000 AU	2,000 feet	2,500 feet	2,500 feet	
	3,000 AU or more	2,500 feet	3,000 feet	3,000 feet	
	500 AU or less	None	None	None	
Confinement buildings and covered	501 AU to < 1,000 AU	1,250 feet	1,875 feet	1,875 feet	
formed manure storage structures	1,000 AU to < 3,000 AU	1,875 feet	2,500 feet	2,500 feet	
	3,000 AU or more	2,375 feet	3,000 feet	3,000 feet	
	500 AU or less	None	None	None	
Egg washwater storage structures	501 AU to < 1,000 AU	1,000 feet	1,875 feet	1,875 feet	
-66 washwater storage structures	1,000 AU to < 3,000 AU	1,500 feet	2,500 feet	2,500 feet	
13	3,000 AU or more	2,000 feet	3,000 feet	3,000 feet	

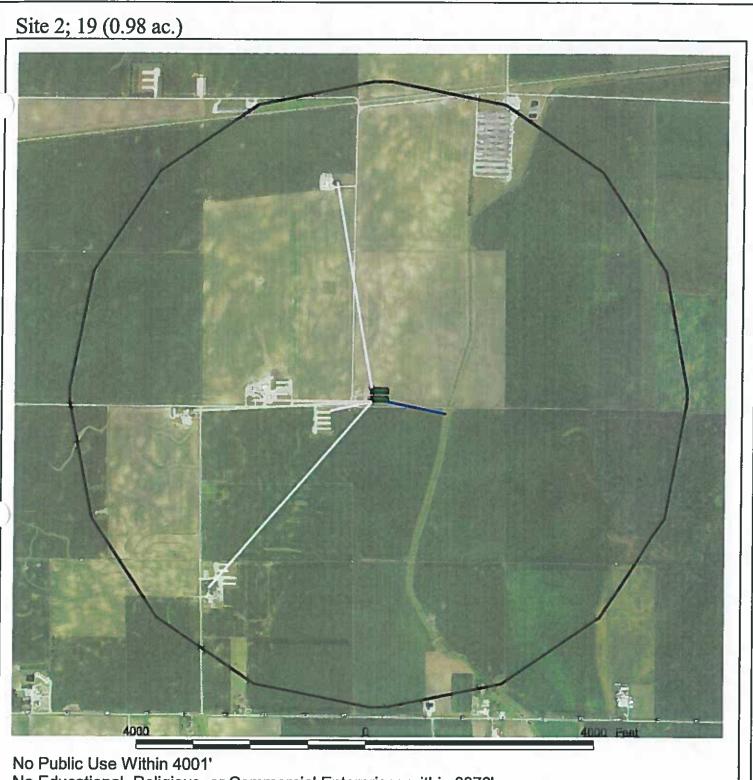
Distances to Wells

Type of Structure	Public	c well	Private well	
	Shallow	Deep	Shallow	Deep
Aerobic structure, anaerobic lagoon, earthen manure storage basin, egg washwater storage structure.	1,000 feet	400 feet	400 feet	400 feet
Formed manure storage structure, confinement building	200 feet	100 feet	200 feet	100 feet

Other Distances

Surface intakes of an agricultural drainage well or water source other than major (Excluding farm ponds, privately owned lakes or when a secondary containment barrier is provided)	500 feet*
Wellhead or cistern of an agricultural drainage well or known sinkhole or major water source (Excluding farm ponds, privately owned lakes or when a secondary containment barrier is provided)	1,000 feet
Designated wetlands pursuant to subrule 65.11(4) and Iowa Code section 459.310	2,500 feet
Right-of-way of a thoroughfare maintained by the state or a political subdivision (Exemptions provided in subrule 65.12(2))	100 feet





No Public Use Within 4001' No Educational, Religious, or Commercial Enterprises within 3376' No Ag Drainage Well, Known Sinkhole, or Major Water within 3501' No Well within 101' No HQ, HQR, or PWA within 2001'

Date: May 23, 2019 Field Name: Site 2; 19 Location: Hardin Co., Iowa, U.S. Section 27, T89N, R22W Farm Name: Horse Corner Site Client Name: P-Index Total Acres: 0.98 Field Boundary Start Location: Latitude: 42.48627098 Longitude: -93.42912925



1 Mile Distance To Residence 2059.998 3116.236 3621.514 4281.905 Distance To Closest CAFO 747.934 Distance To Water 1045.413 (0.9ac.)Field Boundary

Design, Operating, & Maintenance Plans & Supporting Documentation

SITE NAME - Corner Pork

Master Matrix #2

The swine facility is located at least an additional **1501 feet**, above the required **2500** feet, away from the closest Public Use Area; defined as 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. Refer to site map. Credits of **30** pts have been counted in the Master Matrix for **Item 2**.

Master Matrix #3

The swine facility is located at least an additional **1501 feet**, above the required **1,875 feet**, away from the closest Educational Institute, Religious Institution, or Commercial Enterprise. Refer to site map.

Credits of 30 pts have been counted in the Master Matrix for Item 3.

Master Matrix #4

The swine facility is located an additional 545 feet, above the required 500 feet, away from the closest water source. Refer to site map.

Credits of 10 pts have been counted in the Master Matrix for Item 4.

<u>Master Matrix #5</u>

The swine facility is located **300 feet** or more from the closest thoroughfare. Refer to site map.

Credits of 30 pts have been counted in the Master Matrix for Item 5.

Master Matrix #6

The swine facility is located an additional 500 feet, above the required 2,500 feet, away from the closest critical public area. Refer to site map.

Credits of 10 pts have been counted in the Master Matrix for Item 6.

Master Matrix #8

The swine facility is located an additional **2501 feet**, above the required **1,000 feet**, away from the closest Agricultural drainage well, known sinkhole, or major water source. Refer to site map.

Credits of 50 pts have been counted in the Master Matrix for Item 8.

Master Matrix #10

The swine facility is located at lease two times the minimum separation distance of **1000 feet**, from the closest high quality water, high quality resource water, or protected water areas. Refer to site map.

Credits of 30 pts have been counted in the Master Matrix for Item 10.

Master Matrix #12

Points: We are claiming 30 points because this Manure Storage Structure has a cover. Iowa Code states that "a formed manure storage structure directly beneath a floor where

animals are housed in a confinement feeding operation is deemed to be covered." On this Site the building roof is the cover.

Design: The site will consist of 2 swine finishing buildings that have manure storage pits directly beneath the roof and floor where the pigs are housed, as required by DNR rules to be considered covered liquid manure storage. The roof has been designed and warranted using ribbed painted, or galvanized steel to withstand appropriate snow and wind loads for **Hardin** County, Iowa.

Operation: The roof is part of the Structure and has no moving parts, therefore it does not require an operating plan.

Maintenance: Each building's roof and floor will be maintained to provide coverage of the manure storage structure. Maintenance of this cover will be minimal since it consists of steel. This facility will have a caretaker on site and in the buildings daily, if there is evidence of storm damage, or any holes/water leaks, which would be evidence of a hole; if found, they will be immediately repaired with appropriate materials to achieve as-built condition.

Credits of 30 points have been counted in the Master Matrix for Item 12.

Master Matrix #17

Points: We are claiming 30 points because the manure storage structure is formed. The pit is "cast in place" reinforced concrete.

Design: The site will utilize an 8' deep cast in place reinforced concrete pit. The reinforced cast in place structure meets requirements of Chapter 65 for manure storage, the housing of swine, and the support of roof, slats and walls. Tables for steel grade, size and spacing are reviewed by a DNR engineer through the permitting process. Wall and floor thickness, concrete strength, backfill soil categories, and traffic patterns are also reviewed. There will be a wall poured over an approved footing and floor incorporating a water stop that prevents infiltration/exfiltration. Refer to the Construction Design Statement for specifics. The Construction Design Statement has been completed and signed by the building contractor and contains a Construction Certification stating that it was designed in accordance with DNR rules.

Operation: The Manure Storage Structure is static and has no moving parts. The pit will be cleaned and inspected before animals are placed in building looking for any defects, such as cracks or honeycombing, and if discovered will be repaired to industry standards. The facility will be operated as a below building concrete pit. There will be a Caretaker on site and in the buildings daily, and will visually monitor manure levels. In addition water usage meters are routinely monitored by the caretaker to insure the ample water supply to pigs, and will also be used to identify excessive usage or leaks. The concrete walls of the manure storage pit are designed for heavy equipment to be operated no less than 5 feet from the walls. The pump-out pits are designed to allow heavy equipment to be operated closer than 5 feet, and are constructed using stronger design specifications. Perimeter Tile are requirement of this CDS and every tile outlet will have a monitoring location consisting of either a monitoring port including a valve in case of leak, or an outlet to the surface.

Maintenance: Due to the concrete design and specifications for the formed structure, maintenance is expected to be minimal for this structure. As a requirement of the CDS all concrete will be cured to minimize shrinking and cracking. Approximately 12" of pit

will be exposed above the soil surface. There will be a Caretaker on site and in the buildings daily, and will routinely looking for cracks in the walls. The building contractor will be notified if any cracking is discovered.

The Caretaker will make routine observations of the perimeter footing tile discharge point, or monitoring port for signs of contamination; such as manure odor, visual discoloration, excessive liquid in the tile during dry periods, and dead foliage. If contamination is observed, an immediate investigation will be conducted to locate the source and the problem will immediately be corrected. A groundwater and/or structural expert will direct the investigation, and the investigation will include closing the tile shutoff valve and taking water samples for visual and laboratory analysis.

Initial Settling of soils will be monitored and corrected to eliminate standing water next to the manure storage structure.

Credits of 30 pts have been counted in the Master Matrix for Item 17.

<u>Master Matrix # 19</u>

Design: The site will have a truck turnaround area at least 120 feet in diameter and adequately surfaced for traffic in inclement weather. The site will have a truck turnaround area allowing the trucks to pull in to the site completely off of the road and turn around.

Operation: The driveway will be operated to provide for safe entrance and exit to the property for delivery vehicles and not obstruct the public thoroughfare.

Maintenance: The driveway will be maintained to a level that will support regular truck traffic. The driveway will be constructed with a 2-3 inch base. Road rock gravel will be used as a road surface that will be monitored for the purposes of leveling, filling potholes, and adequate snow removal.

Credits of 20 pts have been counted in the Master Matrix for Item 19.

<u>Master Matrix #20</u>

The construction permit applicant has no history of Administrative Orders in the last five years at any site in which the applicant has any interest.

Credits of 30 pts have been counted in the Master Matrix for Item 20.

Master Matrix #24

The facility has a capacity of 1 to 2000 animal units. Refer to Construction Permit Application, page 3.

Credits of 20 pts have been counted in the Master Matrix for Item 24.

Master Matrix #25

Design: The buildings on the site will utilize a wet/dry feeder, dry feeder with watering cups, or swinging nipples. Industry wide accepted data shows significant water savings from any of the three options as compared to a gate mounted watering nipple. Please refer to the attached scientific article illustrating the water savings and benefits any of the three methods mentioned above.

Operation: Feeders, watering cups, or swinging nipples will be adjusted to reduce waste and optimize feed efficiency for the facility. The water savings result in reducing the gallons of water in the pit that later has to be hauled out onto farm fields. **Maintenance:** The feeders, watering cups, or swinging nipples will be inspected on a regular basis and adjusted as needed. Water flow will be monitored and adjusted to control waste and excess manure volume.

Credits of 25 pts have been counted in the Master Matrix for item 25.

Master Matrix # 26 "e"

All manure will be injected or incorporated on the same date that it is applied. Credits of **30** pts have been counted in the Master Matrix for **Item 26e**.

Master Matrix #29

Land application of manure does not occur on highly erodible land (HEL), as classified by the USDA NRCS. Refer to Manure Management Plan field aerials. Credits of **10** pts have been counted in the Master Matrix for **Item 29**.

Master Matrix # 31

Matrix item 26e states that all manure will be Injected or Incorporated. There are no "public use areas" within 200 feet of any of the fields included in the Manure Management Plan. There will be no manure applied within 200' of a public use area.

Credits of 5 pts have been counted in the Master Matrix for Item 31.

Master Matrix #33

All manure will be injected or incorporated on the same date that it is applied no less than 50 feet away from any private drinking water or public drinking water well, or the well will be properly closed under supervision of county health officials. Credits of **10** pts have been counted in the Master Matrix for **Item 33**.

Master Matrix #34

A separation distance of **400 feet** from the closest agricultural drainage well, known sinkhole, major water source, or water source, will be kept when land application of manure occurs.

Credits of 10 pts have been counted in the Master Matrix for Item 34.

Master Matrix #35

A separation distance of **400 feet** from the closest high quality water, high quality resource water, or protected water area, will be kept when land application of manure occurs.

Credits of 10 pts have been counted in the Master Matrix for Item 35.

Master Matrix #37

A worker safety and protection plan is submitted with the construction permit application and was made a condition in the construction permit. The worker safety and protection plan and subsequent records will be kept on site with the manure management plan records. Credits of 10 pts have been counted in the Master Matrix for Item 37.

Master Matrix #40

An Emergency Action Plan in compliance with the Iowa State University Extension publication PM 1859 was submitted with the construction permit application and was made a condition in the construction permit. The emergency action plan and subsequent records will be kept on site with the manure management plan records. Credits of 5 pts have been counted in the Master Matrix for Item 40.

Master Matrix #41

THIS CLOSURE PLAN MUST BE KEPT ON SITE WITH ALL OTHER MMP DOCUMENTS. Closure Plan as of 8/14/18. This plan has been written in accordance with NRCS Conservation Practice Standard "Closure of Waste Impoundments". The closure plan is based on NRCS Code #360. This also meets the standards and requirements, which are set forth by the Iowa DNR. The closure shall comply with all federal, State of Iowa, local, and tribal laws, rules and regulations that are in place at the time of the closure. Grow Iowa, LLC will notify the DNR Filed office of their intent to close the structures on this farm which consists of two 8' deep pit barns, subsequent to six (6) months of the structure being empty of livestock. Applicant will follow any closure rules that may be established at that time that is more stringent than this closure plan. Grow Iowa, LLC and the DNR will establish a time line of completion for the closure plan.

- 1. Manure should be well agitated to try to remove as much manure as possible. The effluent, solids and any sludge will have an analysis for both nitrogen and phosphorus. This analysis will be used in determining the amount of material to be applied on a per acre basis according to the Manure Management Plan.
- 2. Non-concrete construction material should be removed and disposed of following DNR guidelines.
- 3. Slats should be removed for pit cleaning. Slates can be broken and added back after the pit is clean and walls have been knocked in.
- 4. All solids left in concrete containment shall be removed and field applied using agronomic rates.
- 5. After concrete containment is cleaned, applicant shall contact the DNR Field Office for visual inspection if DNR so advises. If DNR determines containment is clean enough to no create environmental impact, applicant may proceed to the next step.
- 6. Floor of containment shall be broken up so as to not impound water. Sub drain tile may be removed. Containment walls will be broken up and pulled into pit area. Demolished building materials shall be placed on top of concrete if not disposed of in another way.
- 7. Materials are to be covered with soil to a settled depth of one foot, and the backfill be sufficiently mounded such that runoff will be diverted from the site after the backfill settles.
- 8. Measures shall be taken during the construction to minimize site erosion and pollution of downstream water resources. This may include such items as silt fences, hag able barriers, temporary vegetation, and mulching.

Credits of 5 pts have been taken for Item 41.

Original research

Impact of feeders and drinker devices on pig performance, water use, and manure volume

Michael C. Brumm, MS, PhD; James M. Dahlquist, MS; Jill M. Heemstra, MS

Summary

Objective: To determine the impact of feeder and drinker designs on pig performance, water use, and manure volume.

Methods: Experiment One compared a wet/dry feeder to a dry feeder with wall-mounted nipple drinker. Experiment Two compared a swinging nipple drinker to a gate-mounted nipple, and Experiment Three compared a bowl drinker to the swinging drinker of Experiment Two. In all experiments, pigs were housed in pens of 20-24 pigs per pen in partially slatted, mechanically ventilated facilities.

Results: In Experiment One, water disappearance (L per pig per day) was 4.49 for the wet/dry feeder versus 6.06 for the dry feeder plus nipple drinker. In Experiment Two, water disappearance was 4.90 L per pig per day for the swinging drinker versus 5.50 for the gate-mounted drinker. In Experiment Three, water disappearance was 3.78 for the bowl versus 5.01 for the swinging drinker. Summer manure production in Experiment One was 4.96 L per pig per day for the wet-dry feeder versus 7.02 for the nipple drinker. Winter manure production was 3.96 L per pig per day for the swinging drinker versus 4.59 for the nipple drinker in Experiment Two.

Implications: These results document the wide range in water use and manure volume associated with feeder and drinker devices installed in swine facilities. They also suggest lower amounts of total water use and manure volume than those currently cited in the literature or used by regulatory officials.

For the overall experiment, pigs on wet/dry feeders used 1 kg of water less per kg of feed than did pigs on the conventional system.

The overall W:F ratio was lowest for the wet/dry feeder (1.78; Experiment One) and similar to the bowl drinker (1.89; Experiment Three).

In observations consistent with ours in Experiment One, Maton and Daelemans14 concluded that all wet feeders included in their experiments reduced water spillage so that water consumption was only 70%-80% of that observed from conventional feeders and nipple drinkers. In addition, slurry (manure) volume was reduced by 20%-30% in their study.

	imer)	Experim	ent Two
Dry	Wet/dry	Swing	Nipple
per day			
		3.96 L (1.05 gal)	4.59 L (1.21 gal)
7.0 kg (15.4 lb)	4.9 kg (10.8 lb)	3.9 kg (8.6 lb)	4.5 kg (9.9 lb)
) kg bod <mark>y</mark> w	eight		
109 kg (240 lb)	76 kg (167 lb)	61 kg (134 lb)	70 kg (154 lb)
	7.02 L (1.85 gal) 7.0 kg (15 4 lb)) kg bodyw 109 kg	7.02 L 4.96 L (1.85 gal) (1.31 gal) 7.0 kg 4.9 kg	per day 7.02 L 4.96 L 3.96 L (1.85 gal) (1.31 gal) (1.05 gal) 7.0 kg 4.9 kg 3.9 kg (15 4 lb) (10.8 lb) (8.6 lb) 0 kg bodyweight 109 kg 76 kg 61 kg

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Swine Employee Safety & Protection Plan

If, at any time, you feel you cannot do a job safely, stop and discuss it with us and we will work together to fix the problem.

Work clothes

You are expected to come to work dressed in suitable clothes that do not pose a safety risk. Suitable clothes include:

- sturdy work boots with non-slip soles for general work on-farm;
- tough overalls or long, washable trousers;
- a comfortable shirt long sleeves should be either buttoned at the wrist or rolled up so that no loose ends can be caught in machinery or on protruding materials, the shirt should also be tucked into your trousers for the same reason;
- a broad-brimmed hat for outdoor work; and
- wet weather gear.

You are expected to wash your work clothes daily, particularly after working with chemicals.

Hygiene

Attention to personal hygiene is essential. It is in the interests of your health and our business. If you are a smoker, we will support your attempts to quit, as smoking in a rural environment poses a fire risk.

You must:

- ensure your skin, especially your hands, are kept clean and washed with soapy water after working;
- wash your work clothes daily;
- keep up to date with your tetanus vaccinations;
- not be in possession of, consume or be suffering the effects of alcohol or illicit drugs;
- promptly report skin infections to the owner/manager;
- not smoke in the barns or any other farm buildings; and
- advise the owner/manager of any prescription medicines you may need to take during working hours this is particularly important if you use asthma medication.

Use of protective clothing and equipment (PPE)

Protective clothing and equipment is provided for your personal protection while you work with us. All personal protection equipment (PPE) should be used as instructed, cleaned properly after use and kept in good order.

Let the owner/manager know if PPE is damaged or unavailable, or if you are having difficulty using the equipment provided.

The PPE includes:

- rubber boots;
- protective gloves for handling cleaning agents;
- hearing protection when noise is a problem;
- protective gloves, face masks, coveralls and respirators for handling chemicals;
- sunscreen when working in direct sunlight;
- goggles or safety glasses for eye protection; and
- dust masks when working in the barns.

Handling chemicals

The chemicals used on-farm include detergents and other chemicals used to control insects, weeds, fungal diseases, mice and rats.

- Only use chemicals if you have been trained in their use and are authorised to do so.
- Anyone handling farm chemicals must comply with the instructions on the label and the Material Safety Data Sheet (MSDS). The MSDSs are located in the site office
- If you cannot understand the label or the MSDS, or have difficulty reading them, ask for help before continuing.

- The recommended personal protection equipment (PPE) should be worn during chemical mixing, application and clean up.
- Always have clean water available for washing down and clean clothes when using chemicals.
- When you have finished you job, the equipment should be washed down and the chemicals locked away in the chemical storage area.

Equipment operation and maintenance

- Make sure you have received instruction and training, or have been assessed before you operate any equipment for the first time.
- Become familiar with the operator's manual for all the machinery you operate.
- Read, understand and comply with all the safety warnings on machinery and equipment, and in the operator's manual.
- Ensure the power has been isolated before removing the guards on any machinery for maintenance or testing.
- As soon as the job in finished, always replace a guard that has been removed for machine maintenance or to clear a blockage.
- Tell the owner/manager about guards that have been damaged or exposed moving parts on machinery that may present the risk of injury.
- Keys must be removed from machinery after use and placed in the key cupboard.

Being ready for emergencies

- All accidents and injuries must be reported to the owner/manager.
- Before setting out each day, ensure you have enough water to keep you well hydrated.
- Always let someone know where you plan to be on the farm, particularly if you are on your own. If no one is about, write it down and leave a note in a conspicuous place.
- First aid kits are located in the office
- Make sure the emergency telephone numbers are posted in the office

Emergency Action Plans

Emergency action plans provide detailed information on what to do if you have an accident or emergency at your livestock facility, such as a manure spill. While Emergency Action Plans are not required, it is a good idea to keep a copy of the plan with your manure management plan or records, production records, or somewhere that is easily located by you, family members, or employees. A well-designed and implemented emergency action plan can reduce the severity of emergencies, the risk to humans and animals, the economic losses, and the potential of environmental pollution.

This fact sheet is designed to address emergency action plans in the event of a manure leak or spill. In addition to developing an emergency action plan to address manure management, you might consider developing additional plans to address mass animal mortalities: weather-related emergencies: or electrical, plumbing, or other mechanical failures.

An emergency action plan should contain four items:

- a plan of action to prevent the release of manure or prevent environmental contamination
- 2) a detailed map of the site and application fields
- a list of contact names and numbers included with the plan and posted near the phone
- 4) a clean-up plan

This fact sheet is not designed to be a "fill-in-the-blank" form. It is designed to give you the basic information needed to prepare an emergency action plan. The plan you design will be specific to your livestock facility and your management practices. You may want to work with your local emergency management coordinator when developing your emergency action plan. The coordinator can help you identify resources and file any necessary notifications needed in the response of an accident or spill.

PLAN OF ACTION

A plan of action should be developed for each livestock facility. Review the plan of action every six months and make sure all personnel involved with the livestock facility are familiar with the plan. Items to consider for a plan of action include:

- Assess the situation, know what factors are at risk (human health, animal welfare, the environment, livestock structures)
- Reduce risk through implementation of planned steps
 - Prevent spills or discharges by maintaining equipment and following plans
 - Eliminate the source of manure if spill or discharge occur
 - Contain the spill
- Contact appropriate authorities to report emergencies or accidents
- Assess damages

In the event of a manure spill or leak, every effort possible should be made to prevent movement of manure off-site. If necessary, contact neighbors or nearby contractors with earth-moving equipment available to assist with containment. If tile intakes are present, have devices on hand to prevent manure from entering the tile lines. Contact neighbors with manure handling equipment to land apply the manure. Prevent manure from entering bodies of water or other environmentally sensitive areas, such as sinkholes and ag drainage wells. For assistance, contact your local sheriffs department or other emergency response personnel in your county. State law requires that you report manure spills or leaks to the lowa Department of Natural Resources as soon as possible, but not later than 6 hours from onset or discovery of the problem (see Contact Names and Numbers).

IOWA STATE UNIVERSITY University Extension

Emergency Action Plans

SITE MAP

A good planning tool for emergency action plans is a site map of the livestock facility. A site map can be of assistance to new employees, delivery personnel, and emergency response personnel. A site map should include the following information:

- Facility address and location (including e911 address)
- Building locations
- Electrical service boxes
- Water main connections and shut-off valves.
- Identification of the manure storage structure with associated pump-out ports, valves, pumps, etc...
- Execution of wellheads
- Identification of nearby tile intakes, sinkholes, ag drainage wells, streams, lakes or other environmentally sensitive areas
- · Drainage and water movement indications
- Identification of property boundaries
- First aid kit
- Fire extinguisher(s)

In addition to a site map for livestock facilities, copies of maps of fields for land application of manure should be included. If you already have these maps filed with your manure management plans, an extra set could be filed with your emergency action plan. These maps should include manure application setback distances, designated areas, watercourses, and property boundaries. It is also helpful to include the location of field access roads and gates. You may wish to file a site map with your DNR regional field office.

CONTACT NAMES AND NUMBERS

See attached sheets.

CLEAN-UP PLAN

A clean-up plan should include methods of proper manure removal and land application of manure at agronomic rates. Manure applications from a spill should also be recorded in your manure management plan if you are required to have one. You should consult DNR field staff for appropriate clean-up methods. You may be required to file a report following a manure spill, leak or other incident.



This fact sheet was developed by the Iowa Manure Management Action Group (IMMAG). Special thanks to Don Peterson and Paul Miller, NRCS Karen Grimes and Kathre Lee, IDNR staff: and Jeff Lormov and Angela Rieck-Hinz, ISU: for development of this material. Members of IMMAG methde: Natural Resource Conservation Service (NRCS). Jowa Environmental Council, Agribusiness, Issociation of lowa, Iowa Farm Burean, Iowa Pork Producers, Association, Iowa Cattlemen's Association Iowa Ponthy, Association, Conservation Districts of Iowa, Farm Credit Services of America, Iowa Department of Natural Resources (IDNR). Division of Soil Conservation the Iowa Department of Agriculture and Land Stewardship (DSC-DMS), Iowa Beef Center Iowa Pork Industry Center and Iowa State University Extension, and the College of Agriculture.

A special thanks to the IDNR field stuff. Extension field stuff, and State Emergency Response personnel for assistance.

...and justice for all the US Department of Agriculture (USDA) prohabits discrimination in all inprograms and acrimities on the basis of race, color, national origin, gender relation age this abdress political blacks, second orientation, and natified is fundly statist (Stori all prohibited bases apply to all program) (Many initiated can be made as alloble in alternative formats for AD (cleans) To life a completion of discrimination, only 1530, Olice of Critic Baylis, Room (22-M, Whittee) Badding, Tahr and Independence, Vienne, SW, Washington, DC 20250-0410 or call 202-720-5064

Issued or furtherance of Cooperance Estension work. Acts of May 8 and June 30, 1914, m cooperation with the U.S. Department of Agriculture. Stanley, R. Johnson, director, Cooperance Estension Service: Jowa State University of Setence and Technology, Aras, Jowa

> PM 1859 January 2001 File: Environmental Quality 4-1 [A]

Contact Names and Numbers

A list of contact names and numbers should be filed with the emergency action plan and a copy posted by the phone for emergencies.

Site Name

Corner Pork

Owner/Operator

Name Grow Fown, LhC Phone: 641 456 8477

Site Address (including e911 address)

14980 CL Ave Alden. IA 50006

Specific Directions to the Site

From Alden travel west on CORD D20 for 2 miles. Then turn left onto DAVE and travel I mile. Next turn right onto 140th st. and travel 1/2 mile to ic Ave Jurn left onto CCAVE and travel / nile. The site is on the left.

HUMAN INJURY

Explain that self-contained breathing apparatus may be required if someone has been overcome by gases.

Rescue Unit/Ambulance

Phone: 9/1

Doctor or Physician

Name: Hansen Family Hospital Phone: 641 648 7000

Hospital or Medical Clinic

Name Hansen Family Hospital Phone: 641 - 648 - 7000

Fire Department Phone: 911 - Alden Fire Dept

County Sheriff Name: Hardin County Sheriffs Department Phone: 641-939-8189

Post by the telephone for reference

Contact Names and Numbers

Manure Leaks or Spills

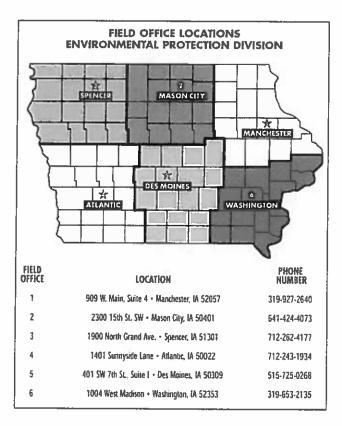
IOWA DEPARTMENT OF NATURAL RESOURCES FIELD OFFICE

State law requires that you report manure spills or leaks to the lowa Department of Natural Resources as soon as possible, but not later than 6 hours from onset or discovery of the problem (see *Contact Names and Numbers*).

Work Days 8 a.m. - 4:30 p.m.

Phone: 64/-424-4073

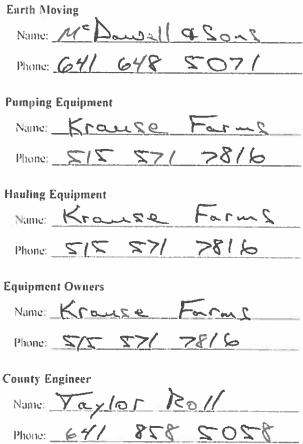
Weekends, Holidays, and After Business Hours Phone: (515) 281-8694



COUNTY SHERIFF

Name Hardin County Sheriffs Department Phone: 641-939-8189

CONTRACTOR



Others

Name:

Phone: _____

IOWA STATE UNIVERSITY University Extension

Contact Names and Numbers

PARTIAL SYSTEM FAILURE

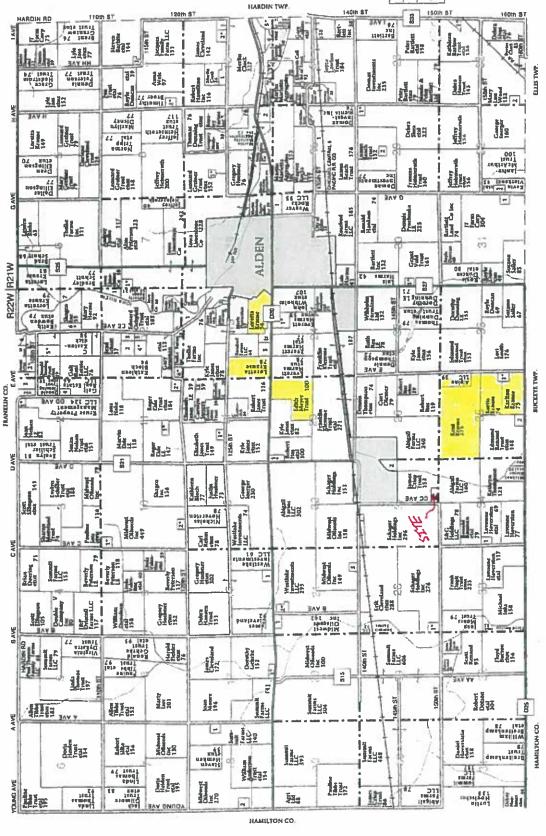
Equipment suppliers and technicians:

Electricity Name: Alliant Energy	Insurance C
Phone: 800 255 4268	Phone:
Plumbing	Policy
Name: Morts Water	Other
Phone: 641 579 6500	
Ventilation	
Name: Quality Ag	
Phone: 515 859 2829	
Heating	
Name: Quality Ag Phone: 515 859 2824	
Phone: 515 859 2824	
Feed D C D D D D D D D D D D D D D D D D D	
Name: Seaboard Foods	
Phone: 641 648 5020	
Veterinarian	
Name: Sea board Foods	
Phone: 641 648 5020	
Mortality Disposal	
Name: Das Pro	
Phone: 319 236-7969	

surance Carrier		0
Name: American	Hee	artland Ins
Phone: / 800		
Policy New Po	licz	
- 96 7 7	/	

T-89-N

R-21-22-W



SEE PAGE 68 FOR ADDITIONAL NAMES NOT LISTED ON MAPS.

Manure Management Plan Form Animal Feeding Operation Information

Page 1

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

DAR

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

Signed: By	Park	K-		Part	~ Kiaus	cDate	8/20/19
				(Print) 	name)		
Name of operation: Co	orner Pork			_	Facili	ity ID No.	<u>N/A</u>
Location of the operat	tion: N/A	CC Ave					
		(911 address)					
	Alde	n		IA		5000	6
		(Town)		(State		(Žip)	
$\frac{SW}{(1/4 \ 1/4)}$ 1/4 of the SI	$E_{1/4}$ of Sec	27 T 89N R 22V (Section) T 89N R 22V	<u>V</u>	Ald	en	<u> </u>	Hardin
(114-114) (114	+)	(Section) (Tier & Range)		(10	wnship Name)		(County)
Owner and contacts o	f the animal :	feeding operation:					
Owner Grow Iowa,	LLC	A 50006			Phone	641-456-847	7
Address 16922 Co R	d S27 Alden, I	A 50006					
E-mail address (optional	i)				Cell	phone (optional)	
					_		
Contact person (if diffe	rent than owner)	Kent Krause			Phone	641-648-7300)
Address 620 Country	/ Club Rd Iowa	Falls, IA 50126					
E-mail address (optional) britland@p	innacleiowa.com			Cell	phone (optional)	
					-		
Contract company (if a	oplicable)				Phone		
Address							
Chis manure managen existing operation, not expanded Construction and Expanded	nding	existing operation, expanding	date	of initi	ng operation, new al construction ansions	owner <u>X</u>	new operation
Table 1. Informati	on about live	stock production and ma	- nure	mana	gement syst	em	
1	2	3	4		Î l	7	8
	Max # of		1	1	e.	Days/yr	
Animal type/	animals		0.25		· · · ·	Facility	Annual Manure
Production phase ^a	confined	Manure Storage Structure ^b	N°	P205	gal/space/dy ^d	occupied	Produced*
Wean/finish (wet/dry)		BBP	56	38	0.7	365	1,277,500
Select production phas	=		0	0	0.0		000
Select production phas			0	0	0.0		000
· · · · · · · · · · · · · · · · · · ·	_						
		·····					
etime ted an and a set	- 11 4!		÷ .		1	Fotal Gallons	1,277,500
stimated annual anim	ial productio	n': <u>10,000</u> anim	als/yea	ar			
ource of Manure Nut	rient Conten	t Data (stondard tables, manure analy	sis, othe	r):	Tables		
		D12 (#22		8.a			<u> </u>
72013 jgk						<u> </u>	542-4000bc



Manure Management Plan Form

Determining Maximum Allowable Manure Application Rates

Page 2

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

Management Identification (Mgt ID)^g

C-C N-Rate (identify this application scenario by letter)

Method to determine o	ptimum crop yield	USDA Iowa Ag Statistics County yields	-	Timing of application	Spring/Fall
Method of application	Knifed in or soil inject	ion of liquid manure	-	Application loss factor	0.98

If spray irrigation is used, identify method

Table 2. Manure nutrient concentration

		ent (lbs/100			
Manure Storage Structur	re(s) ^k	BBP			
Total N ¹	56	-	P ₂ O ₅	38	
%TN Available 1st year	90%	2nd year	0%	3rd year	0%
Available N 1st year ^m	49.4	2nd year ⁿ	0.0	3rd year ^o	0.0

Table 3. Crop usage rates^P

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

*Use blank space above to add crop not listed.

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

1	Applying Manure For (crop to be grown) ⁹		Corn -	Corn 🔫	Corn 🔻	Corn 🔻
2	Optimum Crop Yield ^h	bu or ton/acre	221	221	221	221
3	P ₂ O ₅ removed with crop by harvest ^T	lb/acre	70.7	70.7	70.7	70.7
4	Crop N utilization ^s	lb/acre	265	265	265	265
5 a	Legume N credit ^t	lb/acre	0.00	0	0	0
5b	Commercial N planned ^u	lb/acre	0	0	0	0
5c	Manure N carryover credit ^v	lb/acre	0	0.0	0.0	0.0
6	Remaining crop N need ^w	lb/acre	265	265	265	265
7	Manure rate to supply remaining N [×]	gal/acre	5369	5369	5369	5369
8	P ₂ O ₅ applied with N-based rate ^y	lb/acre	204	204	204	204

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

9 Commercial P ₂ O ₅ planned ²	lb/acre	0	0	0	0
10 Manure rate to supply P removal an	gal/acre	1861	1861	1861	1861
11 Manure rate for P based plan bb	gal/acre	1861	1861	1861	1861
12 Manure N applied with P-based plan cc	lb/acree	92	92	92	92

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

	13 Planned manure application rate ^{dd}	gal/acre	5369	5369	5369	5369
--	--------------------------------------------------	----------	------	------	------	------

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

⁽⁰⁻²⁾ N-based manure management.

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

^{(&}gt;5-10) Until December 31, 2008, P-based manure management while adopting practices to reduce P index to 5 or below.

^{(&}gt;10) No manure application until practices are adopted to reduce P index to 5 or below

42892213P3500 - Dessie Miller



Grower : Horse Corner

Farm : Fields

Field: 42892213P3500 - Dessie Miller

L Je : 42.51473547

Longitude : -93.40087974



Feature ID Total Acres(80.61 ac)

42892213P4800 - William Krause



Grower : Horse Corner

Farm : Fields

Field: 42892213P4800 - William Krause

L le : 42.51570449

Longitude : -93.39084956



Feature ID Total Acres(65.45 ac)

42892223P1000 - Meyer



Grower : Horse Corner

Farm : Fields

Field : 42892223P1000 - Meyer

Latitude: 42.50772559

Longitude : -93.40592052



Feature ID Total Acres(100.95 ac)

42892235P7000 - Jensen Fiscus



Grower : Horse Corner

Farm : Fields

Field: 42892235P7000 - Jensen Fiscus

L le : 42.47172464

Longitude : -93.40988344



Feature ID Total Acres(456.09 ac)

B

Manure Management Plan Form

Year by Year Manure Management Plan Summary

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 is <u>identical</u> 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 6.

Crop year(s): 2020-2023

	7		4	\$	9		8	6	01	
	Field Location 1/4 of the 1/4 Sec T R			Acres	Own, rent,			Planned	Planned Application	Correct Soil Test
Designation ^{cc} T	ity Nam	Id ^r	Planned Crop	receiving manure ⁸⁸	agreement (include length of agreement) ^{hb}	P index value ⁱⁱ	HEL	oal/acre	and/faild kk	for P ^{II} (Yes
42892213P3500 W1/2	W1/2 SW, 13, 89, 22, Alden, Hardin	A	Соп	80.6	Agreement		Z	5369	447741	OF NO)
4800 S1/2 S	42892213P4800 S1/2 SE, 13, 89, 22, Alden, Hardin	A	Соп	65.5	Agreement	0.50	z	6985	351670	Var
1000 E1/2 d	42892223P1000 E1/2 & SW, NW, 23, 89, 22, Alden, Hardin	A	Сот	101	Rent	0.52	z	5369	542269	Vec
2000 N1/2	42892235P7000 N1/2 & SE, 35, 89, 22, Alden, Hardin	A	Com	456.1	Agreement/Rent	1.29	z	5369	2448801	Yes
									0	
									0	
									0	
+									0	
									0	T
									0	
									0	
									0	
									0	
									0	
									0	
									0	
									0	
									0	
									0	
									c	
,									0	T
	I otal acres available for manure application	re app	lication	703.2	Total gallons that could be applied	is that c	e pluo	e annlied	3775481	

Page 3



RUSLE2 Profile Erosion Calculation Record

Info: 42892213P3500

File: profiles/default

Soil: Hardin County, Iowa/138B Clarion Ioam, 2 to 5 percent slopes/Clarion Ioam 100% Slope length (horiz): 98 ft Location: USANowa/Hardin County Avg. slope steepness: 3.0 % <u>Inputs:</u>

	ield units # yield units. #/ac	bushels 223.00
	Vegetation	Vegetations/Corn, grain
Mananant	managements/CMZ 04/c Other ocal Mat Boosed-1400 N	A A A A A A A A A A A A A A A A A A A

Diversion/terrace, sediment basin: (none) Subsurface drainage: (none) Adjust res. burial level: Normal res. burial Contouring: a. rows up-and-down hill Strips/barriers: (none)

Outputs: T value: 5.0 t/ac/yr Soil loss erod. portion: 0.74 t/ac/yr Soil loss for cons. plan: 0.74 t/ac/yr Detachment on slope: 0.74 t/ac/yr Sediment delivery: 0.74 t/ac/yr

0 lb/ac % 69 Surf. cover after planting: Avg. ann. forage harvest: Crit. slope length: 98 ft

	Suff. res. cov. after on %		61		0/		67		69		76
Vantation	veyetation							1100			
Operation		Liviality of the solution of t		Chisel st of		Ultivator, field 6-12 in sweens		Planter, double disk opnr		Litarvest, Killing crop 50pct standing stude	
nale	11/10	2	11/15/0		111011		111211		10/20/1		



Iowa Phosphorus Index

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



RUSLE2 Profile Erosion Calculation Record

Info: 42892213P4800

File: profiles/default

Soil: Hardin County, Iowa/138B Clarion Ioam, 2 to 5 percent slopes/Clarion loam 100% Slope length (horiz): 98 ft Location: USANowa/Hardin County Avg. slope steepness: 3.0 % <u>Inputs:</u>

	Yield units # vield units #/ac	bushels 223.00
2	Vegetation	<pre>/ vegetations/Corn, grain</pre>
Mananament	managements/CMZ 04/c Other I oral Mrt Proceedattoo 11	

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: 0.74 t/ac/yr Detachment on slope: 0.74 t/ac/yr Soil loss for cons. plan: 0.74 t/ac/yr Sediment delivery: 0.74 t/ac/yr

Crit. slope length: 98 ft Surf. cover after planting: 69 % Avg. ann. forage harvest: 0 lb/ac

	SUT. Tes. COV after on %	0/ 100 ININ	6		20		67		69		66
Vacatation	voneianon							-jene cuero	Corri, grain		
Operation		I warure intector, liquid high district 30 inch				Ultivator. field 6-12 in evicence		Planter, double disk opnr		I riat vest, Killing Crob 50hct standing stubble I	DIGGING RUNNING STATES TO THE RUNNING STATES
נפנמ	11/1/0		11/15/0	5	111014	1017	11511	Ď.	10/20/1		

USDA NRCS

lowa Phosphorus Index

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7

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



RUSLE2 Profile Erosion Calculation Record

Info: 42892223P1000

File: profiles/default

Inputs:

Soil: Hardin County, Iowa\95 Harps clay loam, 0 to 2 percent slopes\Harps Clay loam 85% Location: USA/Iowa/Hardin County Avg. slope steepness: 1.0 %

	# yield units. #/ac	195.00
	Yield units	bushels
	vegetation	vegetations/Corn, grain
	It Records 1* ON No.41	UIUN OO VERIOSEN
Management	2 04/c. Other Local Mc	
	managements/CM ₂	

Diversion/terrace, sediment basin: (none) Subsurface drainage: (none) Adjust res. burial level: Normal res. burial Contouring: a. rows up-and-down hill Strips/barriers: (none)

Soil loss for cons. plan: 0.36 t/ac/yr Soil loss erod. portion: 0.36 t/ac/yr Detachment on slope: 0.36 t/ac/yr Sediment delivery: 0.36 t/ac/yr Outputs: T value: 5.0 t/ac/yr

0 lb/ac 64 % Surf. cover after planting: Avg. ann. forage harvest: Crit. slope length: 82 ft

6

	Suff res cov after on er	88	39	6	64	00	200
	Vegetation				Corn, grain		
Oneration	Manura injector liquid high digt 1	Chicol			ן נ		
Dale	11/1/0	11/2/0	4/12/1	4/15/1	10/20/1		

USDA NRCS

lowa Phosphorus Index

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Gredits: Towa State University USDA National Soil Tilth Laboratory USDA Natiural Resource Conservation Service

	+ Tile / Subsurface Recharge = Overall Flow STP Tile/Sub P Factor x Factor = Pl Index 1.00 0.07 0.07 0.52
VELO	Runoff RCN STP P App Runoff Factor x (Factor + Factor) = PI 2.17 0.20 0.00 0.43
	+ Enrichment STP Erosion Factor x Factor = PI 1.10 0.82 0.02
	Erosion Sediment Buffer Trap Factor x SDR x Factor x 1.00 0.07 1.00
	Field Number Gross Gross 4289223P1000 0.36



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RUSLE2 Profile Erosion Calculation Record

Info: 42892235P7000

File: profiles/default

Inputs: Location: USANowa\Hardin County Soil: Hardin County, Iowa\138C2 Clarion Ioam, 6 to 10 percent slopes, moderately eroded\Clarion Loam moderately eroded 85% Slope length (horiz): 98 ft Avg. slope steepness: 8.0 %

# yield units, #/ac				Surf. res. cov. after on %
Yield units # y bushels				Vegetation
Vegetation vegetations/Corn, grain				
Management managements/CMZ 04/c. Other Local Mgt Records/*CC North	ent	1.5 Vac/yr 1.5 Vac/yr 1.5 Vac/yr 5 Vac/yr	t 1g: 68 % st: 0 lb/ac	Operation Manure injector limited high disturb 20 in the
managements/CMZ 04/	Contouring: b. absolute row grade 2 percent 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: 1.5 t/ac/yr Detachment on slope: 1.5 t/ac/yr Soil loss for cons. plan: 1.5 t/ac/yr Sediment delivery: 1.5 t/ac/yr	Crit. slope length: 98 ft Surf. cover after planting: 68 % Avg. ann. forage harvest: 0 lb/a	Date 11/1/0

	Suff. res. cov. after on %	90 min 100 min	68	65	68	01
	Vegetation				Corn, grain	
Oneration	Manura injactor liquid high district and the	Chical et al	-12	ןל	218	erop outre standing studde
Date	11/1/0	11/15/0	4/10/1	4/15/1	10/20/1	

USDA NRCS

lowa Phosphorus Index

0

Credits: Iowa State University USDA National Soll Tritth Laboratory USDA Natural Resource Conservation Service

1.

Manure Application Lease/Fertilizer Consent Form

(Land Owner) give Group In Course, LhC (Land Owner)
permission to apply manure from <u>Corner Prick</u> Site, (Site Name)
during calendar year 2019 and any succeeding year until canceled by written notice on
+/ Co acres in the S1/2 of the SE1/4, Section 13, T89N, R22W, Alden
Township, Hardin County
Pinnacle Field ID:42892213P3500 (William Krause)

I as land owner, or operator, agree that I will apply any additional commercial or organic fertilizers according to current DNR Manure Management Plan requirements specified for the site listed above. I plan to apply _0_ pounds of Commercial Nitrogen Fertilizer and _____ pounds of Commercial Phosphorus Fertilizer to this field (described above), which is <u>0</u> pounds of <u>------</u> (type of fertilizer). This application rate will remain in effect for calendar year 2019, and each succeeding year until amended or canceled by written notice.

(Land Owner) Kraue Kart K comments (Land Owner) (Land Tenant/Operator)

Grow Java, HL. By Joh Man (Site Owner)

Passa Miller

Manure Application Lease/Fertilizer Consent Form

(Land Owner) give Crow Town hhe
permission to apply manure from <u>Corner Prick</u> Site, (Site Name)
during calendar year 2019 and any succeeding year until canceled by written notice on
+/78 acres in theW1/2 of the SW1/4, Section 13, T89N, R22W, Alden
Township, Hardin County
Pinnacle Field ID: 42892213P3500 (Dessie Miller)

I as land owner, or operator, agree that I will apply any additional commercial or organic fertilizers according to current DNR Manure Management Plan requirements specified for the site listed above. I plan to apply _0_ pounds of Commercial Nitrogen Fertilizer and _____ pounds of Commercial Phosphorus Fertilizer to this field (described above), which is 0 pounds of _____ (type of fertilizer). This application rate will remain in effect for calendar year 2019, and each succeeding year until amended or canceled by written notice.

(Land Owner) Knack Kanne (Land Tenant/Operator)

Grow Tara, LLC. By Per Kannen

Manure Application Lease/Fertilizer Consent Form

(Land Owner) give Grow Found, hhc (Site Owner)
permission to apply manure from <u>Cerner</u> Site, (Site Name)
during calendar year 2019 and any succeeding year until canceled by written notice on
+/275 acres in the <u>N1/2, of Section 35, T89N, R22W, Alden</u>
Township, Hardin County
Pinnacle Field ID:42892235P7000 (Jensen Fiscus)

I as land owner, or operator, agree that I will apply any additional commercial or organic fertilizers according to current DNR Manure Management Plan requirements specified for the site listed above. I plan to apply <u>0</u> pounds of Commercial Nitrogen Fertilizer and <u>0</u> pounds of Commercial Phosphorus Fertilizer to this field (described above), which is <u>0</u> pounds of <u>------</u> (type of fertilizer). This application rate will remain in effect for calendar year 2019, and each succeeding year until amended or canceled by written notice.

(Land Owner)

(Land Tenant/Operator)

Gun Jam LLC By Park K-

1

in-15

Manure Application Lease/Fertilizer Consent Form

I Alpine hhe give Grow Four LLC (Site Owner) permission to apply manure from <u>Corner</u> Prick Site, during calendar year 2019 and any succeeding year until canceled by written notice on +/- ____34 ____ acres in the <u>NE1/4 of the NE1/4, Section 35, T89N, R22W, Alden</u> Township, Hardin County Pinnacle Field ID: _____42892235P7000 (Jensen Fiscus)

I as land owner, or operator, agree that I will apply any additional commercial or organic fertilizers according to current DNR Manure Management Plan requirements specified for the site listed above. I plan to apply <u>0</u> pounds of Commercial Nitrogen Fertilizer and <u>0</u> pounds of Commercial Phosphorus Fertilizer to this field (described above), which is <u>0</u> pounds of <u>------</u> (type of fertilizer). This application rate will remain in effect for calendar year 2019, and each succeeding year until amended or canceled by written notice.

Alpine, hh C Alpine, ul C by Kant Know Menter by Kant Know - man her (Land Owner) (Land Tenant/Operator)

Grow Iowa UL By Path /h_____ (Site Owner)

Crop Year 2020

Manure Management Plan Form

Appendix A8: Iowa Ag Statistics County Corn and Soybean Yield Averages, 2014-2018

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Manure Management Plan Form

Appendix A8: Iowa Ag Statistics County Corn and Soybean Yield Averages, 2014-2018 (continued)

		Corn			Soybeans	
	5-yr. avg.	5-yr. ave.	Avg. yield	5-yr. avg.	5-yr. ave.	Avg. yield
	yield	yield + 10%	of 4 highest	yield	yield + 10%	of 4 highest
County	(bu/ac)	(bu/ac)	(bu/ac)	(bu/ac)	(bu/ac)	(bu/ac)
Harrison	185	203	191	53	59	54
Henry	192	211	195	59	64	59
Howard	191	210	198	54	60	56
Humboldt	188	207	195	55	60	57
Ida	209	230	214	62	68	64
lowa	206	227	210	56	62	57
Jackson	197	217	199	59	64	59
Jasper	206	226	209	59	65	60
Jefferson	186	205	191	52	58	54
Johnson	197	217	200	56	61	57
Jones	199	219	203	57	63	58
Keokuk	193	212	197	55	60	55
Kossuth	193	212	197	57	63	60
Lee	184	202	194	56	62	59
Linn	200	220	206	56	62	58
Louisa	197	216	200	57	63	58
Lucas	157	173	164	47	51	48
Lyon	198	217	204	61	67	63
Madison	173	191	175	52	58	54
Mahaska	194	213	198	56	61	57
Marion	185	203	188	54	60	56
Marshall	209	230	214	61	67	62
Mills	181	199	184	54	59	55
Mitchell	197	216	202	56	62	58
Monona	178	195	183	54	59	56
Monroe	172	189	173	52	57	53
Montgomery	185	203	190	54	59	54
Muscatine	197	217	202	59	65	60
O Brien	202	223	208	61	67	62
Osceola	195	215	200	57	63	58 %
Page	183	201	187	54	59	55
Palo Alto	182	201	188	54	60	57
Plymouth	201	221	205	61	67	62
Pocahontas	191	211	196	55	61	57
Polk	191	210	193	54	59	55
ottawattamie	190	209	196	56	62	57
oweshiek	207	227	211	56	62	57
Ringgold	163	179	167	48	52	49
jac	201	222	207	60	66	49 61
icott	208	229	211	63	69	64
ihelby	198	218	202	58	64	
Sioux	207	227	202	58 65	64 71	59 66

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Manure Management Plan Form

Appendix A8: Iowa Ag Statistics County Corn and Soybean Yield Averages, 2014-2018 (continued)

	(continued)				•	Page 9	
	Corn			Soybeans			
County	5-yr. avg. yield (bu/ac)	5-yr. ave. yield + 10% (bu/ac)	Avg. yield of 4 highest (bu/ac)	5-yr. avg. yield (bu/ac)	5-yr. ave. yield + 10% (bu/ac)	Avg. yield of 4 highest (bu/ac)	
Story	192	212	198	53	59	55	
Tama	205	226	211	59	65	61	
Taylor	167	184	170	51	56	52	
Union	166	183	171	49	54	50	
Van Buren	170	187	180	49	54	52	
Wapello	175	193	181	52	58	54	
Warren	174	192	177	51	57	53	
Washington	206	226	210	59	64	60	
Wayne	161	177	169	48	53	49	
Webster	196	215	197	55	61	56	
Winnebago	193	212	198	56	62	59	
Winneshiek	194	213	199	54	60	55	
Woodbury	201	221	206	58	63	59	
North	191	210	193	55	61	57	
Wright	191	210	196	54	60	57	

Using Manure Nutrients for Crop Production

Manure can supply numents required term impaces on crop nutrient supply should consider short-term and longhow the ratio of nutrients in manure Good manure nutrient management **Nutrients in Animal Manure** removed from soil by crop harvest. under-application and subsequent and reduces potential for over- or consider not only what is needed for the crop to be grown but also ensures adequate nutrient supply by crops and replenish nutrients Since manure contains multiple could affect soil test levels. This buildup or depletion in the soil. nutrients, applications should ind soil resources.

Manure has characteristics that make organic and inorganic numeri forms; concentration requiring large application volumes. Since manure nutrient nutrient concentrations are provided sampling and laboratory analysis are nutrient management different and or solid; and relatively low nutrient always needed, while with fertilizer variation in nutrient concentration sometimes more complicated than and forms; variation in dry matter composition can vary significantly. and resultant handling as a liquid fentlizer. These include a mix of at a guaranteed analysis.

manure types. Nutrient analyses often

emptied or manure is stockpiled, and also among multiple samples collect-

vary greatly as storage facilities are

ed from loads during land application. Therefore, collecting multiple manure

of analysis results will improve use

of manure nutrients.

samples and maintaining a history

For determining manure application rates and equating to crop fentilization requirements, it is most helpful if manure analyses give N, P₃O₃, and K₃O based on an ss-received or wet basis in lb per ton or lb per 1,000 gal units. It is beyond the scope of this publication to give detailed manure publication to give detailed manure sampling and laboratory analysis PMR 1003 Revised May 2016

Using Manure Nutrients for Crop Production

be found in the entension materials

collection, bedding, storage, handling,

and agitation for land application. Use of average or "book" nutrient

values can be helpful for designing a new facility and creating manure

species; dietary options; animal genet

The manure nutrient concentration

varies considerably between animal

ics; animal performance; production

management and facility type; and

recommendations. Those can

dissolves in water and rapidly changes nitrate by soil microorganisms. Monoammonium is further transformed to up by plants. Because all K contained 100 percent crop-available nutrients. orthophosphate and K ions are taken manure K is readily crop available in highly soluble in water and dissolve diammonlum phosphate (DAP) are to ammonium and orthophosphate. ammonium within a few days, and ammonium phusphate (MAP) and For example, anhydrous ammonia to ammonium, urea hydrolyzes to Potassium chioride (KCl, potash), (K*) and chloride (CI^{*}) ions. Both in manure is in the K* ionic form, dissolves in water to potassium all manure sources.

For manure N and P, there is usually a mix of organic and inorganic materials that varies among manure sources, production systems, bedding, storage, and handling. This variety in forms of N and P in manure

organic N varies considerably with the cluded manure sampling and analysis that is easily mineralized after applicaexample, by on-farm research that in-The fraction of total N as attimonium crop available and almost comparable concentration and organic-N fraction contributes to greater uncertainty in manure source. This was shown, for (average 84 percent) for hquid swine (average 20 percent) for solid poultry manure nutrient management comanaerobic lagoons, 65 to 100 percent and greater (and tougher to degrade) inorganic (mainly ammonium) and N was almost 100 percent for swine manure from under-building pits or swine manure is considered "highly' lower antmonium-N concentrations from swine and poultry operations. storage tanks, and 10 to 40 percent tion to soil explain why N in hquid to fertilizer N Other manures have manure from the liquid portion of pared with fertilizers. The ratio of manure. The large ammonium-N



listed on page 7. If manure analyses are provided from the laboratory in other units, they must be converted to these units. See the ISU Extension manure sampling publication for appropriate conversion factors. If manure average nutrient values or methods to estimate manure nutrient concentrations based on excettion are of interest on needed for planming purposes, those can be found in the Manure. Nutrient Availability for Crepts for Crepts

> recent sampling across swine finishing lacilities found a range in total N from 32 to 79 lb NV1,000 gal, P from 17 to

production facilities. For example, a

manure nutrient supply or applica-

tion rates due to wide variation in

nutrient concentrations between

management plans but is not very

helpful in determining specific

54 lb P₂O₃/1,000 gal, and K from 23

to 48 lb K₂O/1,000 gal. A similar or larger range can be found with other

present or ready for immediate use, or availability" when suggesting manure not consistent. Available is defined as typically applied to fertilizers because meaning of "availability" for manure nutrients often is not clear or its use present in such chemical or physical be used by plants immediately upon form as to be usable (as by a plant) converted to a form that plants can take up. The term "available" is not converted upon application to soil. Nutrient management guidelines the term "available" in describing application to soil and have to be most include chemical forms that According to this definition, most portions are in forms that cannot applications to supply nutrients plants can take up or are quickly use the words "manure nutrient needed by crops. However, the manure nurrients is that some The main reasoning for using

9 SOIE

inorganic fertilizers contain basically

IOWA STATE UNIVERSITY Extension and Outreach

Using Manure Nutrients for Crop Production for manure N and P can be, and often similarly useful test does not exist for P. Therefore, the availability estimate (derived both from feed and mineral diately available N. Unfortunately, a and calcium phosphate compounds are soluble or dissolve quickly once applied to soil. The rest is organic P, N can be a way of estimating immein swine manure is orthophosphate supplements added to rations) that and reaction in soil. Testing manure is, less than 100 percent of total N and feed materials. Considerable P which varies greatly in complexity for ammonium-N or water-soluble organic materials due to bedding and P

nutrients in both fertilizer and manure Also, these nutrients can be convened might be lost and became unavailable for short or long periods of time into retention by soil mineral constituents to crops after application. For example, N can be lost through processes long supply of nutrients. Significant through erosion and surface runoff. for P. Nutrient loss issues are not as There is a clear difference between forms not usable by plants through such as leaching, volatilization, or denitrification while P can be lost amounts of plant usable forms of processes such as immobilization owa soils as long as there is little perlinent for P and K as for N in fentlizer or manure and seasoncrop availability of nutrients in Manure Nutrient Supply ioil crosion and surface runoff to organic materials for N and

to increased uncertainty with manure applied nutrient sources but are more difficult to manage with manure than history, and calibration of application achieved. Due to material characterisaffect nutrient supply and contribute The immediate or long-term fate of be similar for manure and femilizer. nutrient concentration, application with feailtzer. With careful manure management. Application rate and distribution uncertainties affect all sampling, pre-application nutrient analysis, study of nutrient analysis application rate variability often is plant usable nutrients in soil can rate, and application distribution nutrient application rates can be variability, field distribution and equipment, reasonable manure tics, and sampling and analysis greater for dry manure sources. However, variation in manure

with N, and crop deficiency symptoms These supply issues can be important for N. P. and K. although typically are response to P and K is much less than and yield loss resulting from nutrient of greater concern with N. There are lows soils have optimum or higher P tion where N supply is critical, many and K test levels where need for and usually is applied for corn producsupply problems are more obvious several reasons, including manure for N

ent availability estimates. Instead, they usually are not included in crop nutri rate, and distribution uncertainties Manure nutrient loss, application

are handled by suggested management lines are consistent in this regard and, commonly used ferrilizers. The guidement, in many instances supply issues are as, or more, critical than estimates ply issues are handled in the best way It is important to understand that for values provided correlate to those for first crop after application or beyond, improving crop nutrient supply with and regions. In this publication, use plant uptake (with no losses) by the lines in this publication assume supsuccessful manure nument manageavaitabilities do vary between states practices. Not all published guidepossible as is done with fertilizers. therefore, suggested crop nutrient of "availability" refers to manure nutrients potentially available for and percent nutrient availability of nutrient availability.

available tools to determine initial soil standing the issues related to manure nutrient levels and adjust application based on response trial data (such as benefits and risks related to managetiming and placement that influence and tools to help determine need for potential losses. Additionally use of These tools include commonly used estimates of N application rate need rates can help provide for adequate nument analysis, application rate, ment practices such as application season-long numers supply when manure can be achieved by underthe Corn Nitrogen Rate Calculator). cither manure or femilizer is used. pre-plant soil testing for P and K, application distribution, and the

Using Manure Nutrients for Crop Production

additional N after planting corn such as the fate-spring soil nitrate test and In-season crop sensing for N stress. Manure Nutrient Application Recommendations

analysis; nutrient crop availability, and tion rate for N, P, K, or other deficient rates, the following information is required: needed crop nutrient fertilizaommendations for crops are provided Once the needed nutrient application in other lowa State University Extenmethod of application. Nutrient recrate is determined, the manure rate repeated here (see list on page 7). To determine manure application to supply crop available nutrients is calculated based on the specific nutrients; manure type; nutrient sion publications and are not manure source being used

portion of the needed fentlization will and the remaining from fentlizer. This is an important consideration because tion to meet the least deficient or most application can result in under-supply the full crop nutrient requirement, or other nutrients. Also, manure applicaand a manure rate to supply the most An additional consideration is what manure contains multiple nutrients be supplied from manure—to meet environmentally restrictive nutrient a partial requirement from manure deficient nutrient can over-supply In these cases, use of fertilizers in of other nutrients.

necessary to appropriately meet all nutrient application requirements. addition to manure application is

Table 1 are derived from research trials availability are provided to account for and analysis variation, and application and inorganic N and P forms, bedding variation in the proportion of organic test levels. See the footnote in Table 1 information was taken from research able estimate. The ranges in nutrient for further information on variability values based on manure with similar conducted in lowa. However, when characteristics can provide a reasontype and amount, manure sampling importance at different P and K soil crop availability estimates listed in local research is lacking, applicable conducted in other states. For manure sources not listed in the table, Many of the manure N. P, and K in manure nutrient availability. Availability Values Manure Nutrient

Potnessium¹ -----001-06 90-100 001-06 90-100 001-05 ---- Percent of Toxal Nurthent Applied ----Phosphorus² -001-06 80-100 80-100 001-06 90-100 Nitrogen 90-100 05-20 901-06 30-50 50-60 Liquid swine (anacrobic lagoun) Liquid swine (anaerobic pit) Beef cattle (solid or liquid) Datry (solid or liquid) Poultry (all species) Manute Source

Table 1. First-year nutrient availability for different animal manure sources.

First-Year Availability Estimates

The estimates for N availability do not account for potential voluntle N homes during and after land application. Correction factors for volarik loss are given in Table 2. The ranges are provided to account for variation in the proportion of accounding N (and for poultry manure also inte arid) bedding type and amount, and both sampling and analysis.

¹The ranges in P and K availability are provided to account for variation in ampling and analysis, and for needed P and K supply with different soft test levels. A would providen of memory P may not be available immediately after application, hui all P is processably available mere time. Use lower P and K availability values for soils tracking in the Very Luw and Luw soil test interpretation curgartes, where large yded it as crudd use to H immediate the applied and a restorable building is detatable. Use 100% when manure to applied to maintain soil-test P and K in the Optimum soil test category, when the perbability of a yield response to small.

Values septify for the liquid portions of source the independent the N and P areabidities will be bese and different to exclusion with service active

Using Manure Nutrients for Crop Production

Second- and Third-Year Availability Estimates

While manure N may become crop with bedded systems, not all of the (recelettrant) and will become pan third-year availability may not add difficult to degrade organic forms for in manure plans over multiple manure N will eventually become available over multiple years for some sources, there should not be an expectation that all of the manure N should be accounted years and the fust- second- or some manure sources, such as of the soil organic matter. For crop available. This happens because some of the N is in up to 100 percent.

availability estimate for beef cattle erable organic material can have Animal manure that has considapplication. The second-year N and dairy manure is 10 percent, some residual-N availability in the second or third year after

second-year crop available N. These anacrobic lagoons. Poultry manure, material, has some bui low secondorganic N and bedding could have pits and above-ground tanks, and similar second- and third-year N have knw arganic N will not have include liquid systems like swine manure stored in under-building Other manures that have similar avzilability. Manure sources that since it has considerable organic and 5 percent for the third year, year (0-10 percent) availability and no third-year N availability

long term. Residual effects of P and 100 percent crop available over a and crop use, just like fentilizer P K not used in the year of applicaand K applied for one year or for tion will be reflected in soil tests animal manure are estimated at The P and K contained in multiple years.

often are difficult to predict accurately The estimates for manure N availabiland, therefore, it is important to make ammonia, urea, and urea-ammonium from applied manure and for manure some N fertilizers such as anhydrous or after application. Losses are from and amount of volatile loss, such as utta, uric acid, or other compounds is left on the soil surface, losses may occur until N is moved into the soil Volatile losses at or after application nitrate (UAN) solutions. If manure temperature, humidity, rainfall, soil an adjustment for volatile N losses tillage. Many factors affect the rate Table 2 do not account for N losses with rainfall or incorporated with similar losses that can occur from However, losses can be significant, during storage and handling (time time period from sampling to land convert to ammonium. These are moisture, soil pH, surface residue potential volatile N losses during various volatile N compounds in ammonia that is produced when analysis) and assume a reasonable cover, and days to incorporation. manure, such as ammonia, and management planning purposes losses. The correction factors in Values given in Table 2 provide from excretion to sampling for application so that the manure ity in Table 1 do not consider guidance on potential volatile Nitrogen Volatilization Adjusting for Manure

Using Manure Nutrients for Crop Production

Table 2. Correction factors to account for N volatilization losses during and after land application of animal manut.

Application Method	Incorporation	Volatilization Correction Factor ²
Direct injection	ł	0.98-1.00
Broadcast (liquid/solid)	Immediate incorporation	66'0-56'0
Broadcast (liquid)	No incorporation	0.75-0.90
Broadcast (solid)	No incorporation	0.70-0.85
Irrigation	No incorporation	0.60-0.75

the portion of total manure N remembing

Considerations for Time of Application

application also allows for nuclification manure and nument loss from soil. crop season. This is more important for N in manures with high organic The time of application influences available for plant uptake the next systems. Iowa research has shown organic N mineralization with fall nutrient availability and potential Fall applications allow more time manure to mineralize so they are that fall versus springtime P and for organic N and P portions of agronomic issue for fertilizers or matter content, such as bedded manure. The increased time for K application usually is not an

important issue for manure with large liquid swine manure. Coarse-textured ing or denitrification with excessively ammonium-N concentration, such as wet spring conditions. This is a more important issue for manure with high solls, with high permerbility, are the losses. Manure applied in the spring potential nitrate loss through leach Fine- and moderately fine-textured most likely to have leaching losses. of ammonium and therefore more soils, prone to excess wetness, are most likely to have denitrification mineralization before crop uptake. Delayed mineralization can be an in cold springs. With manure that has less time for organic N and P organic matter content, especially

N remaining in soil after application,

being applied. To estimate manure

analysis represents the manure

multiply the applied manure N rate by the appropriate correction factor.

allows for better timing of nitrification to nitrate and subsequent crop use, contains a large portion of N as ammonium, spring application and less chance of N loss.

slow the mineralization and nitrificatemperature is 50° F and cooling at important consideration for manure tion processes and is an especially the four-inch soil depth. This will manure in the fall unless the soil containing a large portion of N As a general rule, do not apply as ammonium.

snow-covered, water-saturated soils conditions, it should be applied on increases the potential for nutrient If manure must be applied in these relatively flat land, slopes less than Broadcasting manure onto Irozen, Department of Natural Resources streams and waterways (see lowa losses with rainfall or snowmelt runoll to surface water systems. 5 percent, and well away from rules on setback distances).



Using Manure Nutrients for Crop Production

determined from appropriate extension publications and Web-based tools listed Note: The N. P. and K fertilization requirements in these examples are Example Calculation of Manure Application Rates at the right.

Example 1

Manure source: liquid swine manure, finishing under-hulding pix. Manure analysis 40 lb N/1,000 gal, 25 lb P_AA/1,000 gal, 15 lb K_AA/1,000 gal

Intended crop: com in a com-suybean Incation.

Sud teste 19 ppm Bray P-1 (Optimum) 163 ppm Ammonium Acetate K (Optimum),

Manure rate: based on P requintances for

the crop rotation at 1.20 lb P₂O₂/acre. Manure application: hate fall, incorpu-

Sold tests. 18 ppen linay P-1 (Updatum). 120 ppm Ammonuth Acetate X (Low).

Intended crup: com-soybcan rotation

- Manure analysis: 72 lb Nion, 69 lb

Proyton, 5H lb KrOton.

· Manure source, solid layer manure,

Example 2

for Com

In Con

determining nutrient rates needed to maintain the Optimum soil test estegory MO butare com yield: 73 lb P3Oytere and 60 lb K₁O removal.

Carp yield and P and K removal for

Manure rate: based on com N fertilization requirement as 125 lb Nacre.

Manure N volatilization correction factor;

0.80

Manure rate: 1 20 fb P₁O, Jacre + (b) fb

P₂(3,Aum × 1.00) = 1.7 kon/acre.

Manute nutriens availability: 55 penent

rated after four days.

for N, 100 percent for P and K.

Manure application: injected late fall.

Manure numbers availability. 100 percent for N, F and K.

applied: 1.7 towners × (7.2 lb NVun × 0.60 X 0.80) = 60 lb Nincre; and 17 km/ncre X (54 lb KyOhon X 1.00)

Manute available N and K nutrients

Manure N volatilization contection factor 0.00

Manure rate: 125 lh Nucre + (40 lh N/

1,000 gal × 0.96) = 3,200 gal/scre. Manur available P and K murrients

× log 0/0,1/0,3 dl 25) × modug 0/0,6 1,000 gal × 1.00) = 60 lb P₁O₂Acce; and applied: 3,200 galvacre × (25 lb P₁O₄) 1.00) = 112 lb K₁O/acte.

mamure is not adequate for N, need additional 70 fb lenthaer NAGER (130 fb

Crop available N and K applied with

172 lb K₂O/acre.

NACCE - 60 lb NACCE); and applied X is

not adequate for the corn and sorbcan

crops, need addictorial 80 % K₃C/acre (172-92 lb K,OMere) from fertilizer

additional P and K will need to be applied for the following soyhean crop. marrure are adequate for P (slightly mon and should be accounted for. However, supply more than needed K. The extra than expected com removal) and will P and K can be used by the next crop Phospharus and K applied with the

MWPS-18-SI Manure Characteristics **MWPS-18 Livestock Waste Facilities** Handbook, Third Edition (Midwest Section 1 (Midwest Plan Service) A3769 Recommended Methods of Manure Analysis (University of http://cnrc.agron.imiate.edu/ Corn Nitrogen Rate Calculator, Plan Service) Wisconsin)

> Com N fentilization need and K needed Low soil test category: (30 lb Nucce and

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03:51:57 p.m. 08-22-2019	1	6414249342				
Aug. 22. 20	19	3:54PM	Department	of	Natural	Resources



D	Inva Department of Natural Resources 2300 15 th Street SW Mason City, Iowa 50401 FAX SHEET
DELIVER TO:	Hardin County Auditor PHONE: (641) 939-8109
FAX NUMBER	R: (641) 939-8245
FROM: <u>Iow</u>	va DNR, Cindy Garza
NUMBER OF 1	PAGES (including this cover sheet): 5
MESSAGE:	This is a Courtesy Reminder: Iowa law requires that your board of
	supervisors publish a notice in the newspaper and submit the board's
	<u>master matrix scoring and recommendation for the construction</u>
	permit application of the confinement feeding operation, as explained in the attached letter. Please take note of the deadlines. If you have
	any questions, please call.
	Our Fax Number is: 641/424-9342 Any problems with transmission call: 641/424-4073



IOWA DEPARTMENT OF NATURAL RESOURCES

GOVERNOR KIM REYNOLDS LT. GOVERNOR ADAM GREGG

DIRECTOR KAYLA LYON

August 22, 2019

Hardin County Board of Supervisors c/o County Auditor Via facsimile and email

RE: Public Notice, Matrix Evaluation and County's Recommendation Required DNR's Facility ID No. 71357

Dear Board of Supervisors:

The DNR has received a construction permit application for a confinement feeding operation: Facility name: **Corner Pork Site** Date received by DNR: 08/22/2019

Under lowa law, for this application the County is required to complete the following actions:

1. Publish a new public notice (see example on page following this letter) in a newspaper having a general circulation in the county no later than <u>09/09/2019</u> (within 14 days of DNR's receipt of the application) and furnish proof of publication to the DNR:

<u>Note</u>: A public hearing is not required, but it is optional. However, if the board chooses to have a public hearing, it is recommended to include in the notice the date, time and place for the hearing.

- 2. Score the applicant's Master Matrix and submit the board's scoring and recommendation regarding this application. The county must submit to the DNR all of the following:
 - a. A recommendation to approve or to disapprove the application.
 - b. The Boards scoring of the Matrix, including all supporting calculations.
 - c. Proof of publication of Public Notice.

Your recommendation and Matrix score must be received by the DNR no later than <u>09/23/2019</u> (30 days after DNR received the application).

NOTE: If the County does not submit the Matrix score and recommendation by the deadline, the DNR will not consider any subsequent County's scoring of the Matrix or recommendation until the next time the County is eligible to adopt a construction evaluation resolution.

 The board may submit comments or may forward comments from the public, which must be received by DNR no later than <u>09/23/2019</u>. Comments received after that date due will not be considered. Comments may include but are not limited to the following:

	FIELD OFFICE 2, 2300 15TH ST SW, MASON CITY IA 50401	
Phone: 641-424-4073	www.iowadnr.gov	Fax: 641-424-9342

- a. The existence of an object or location not included in the application that benefits from a separation distance requirement as provided in section 459.202 or 459.204 or 459.310 of the Code of Iowa.
- b. The suitability of soils and the hydrology of the site where construction of a confinement feeding operation structure is proposed.
- c. The availability of land for the application of manure originating from the confinement feeding operation.
- d. Whether the construction of a proposed confinement feeding operation structure will impede drainage through established tile lines, laterals, or other improvements which are constructed to facilitate the drainage of land not owned by the person applying for the construction permit.
- 4. The proof of publication, County's recommendation, a copy of the Matrix as scored by the board and any public comments must be received by IDNR no later than <u>09/23/2019</u>. To ensure timely submittal, we recommend that you also fax or scan and email proof of publication, County's recommendation and a copy of the Matrix as scored by the board to:

 \square

Send to:

1 1

Iowa DNR Field Office #3 1900 N Grand Ave Gateway North, Suite E17 Spencer, IA 51301 Attn: Paul Petitti Iowa DNR Field Office #2 2300 15th St SW Mason City, IA 50401 Attn: Cindy Garza

Paul.Petitti@dnr.iowa.gov 712/262-4177

Cindy.Garza@dnr.lowa.gov 641/424-4073

If you have any questions about this process, please contact Paul or Cindy.

Sincerely, FIELD SERVICES AND COMPLIANCE BUREAU

CINDY M. GARZA ENVIRONMENTAL ENGINEER

PUBLIC NOTICE

(This section is to be completed by the applicant)

The <u>Hardin</u> County Board of Supervisors, has received a construction permit application for a confinement feeding operation, more specifically described as follows:

Name of Applicant: <u>Grow lowa, LLC</u> Location of the operation: Section <u>27</u>, <u>Alden</u> Township.

Type of confinement feeding operation structure[‡] proposed: Two new 2500 head deep pit swine finisher confinement buildings as a new swine confinement facility.

Animal Unit Capacity Of The Confinement Operation after Construction: 2000 animal units (5000 head of swine finishers)

(This section is to be completed by the county) Examination: The application is on file at the County _____ Office and is available for public inspection during the following days: ______ and hours: _____ am to ____pm. Comments: Written comments may be filed at the County _____ Office, until the following deadline:

[‡] A confinement feeding operation structure = a confinement building with a below the floor concrete pit; confinement building with an earthen basin or anaerobic lagoon; aboveground steel tank, etc. (see definition in footnote 1, page 1 of this application form).

Aug. 22. 2019 3:54PM Department of Natural Resources

No. 0611 P. 5

Letterhead for County Board of Supervisors Address, town, Iowa COURTHOUSE: # FAX: # Supervisors

County Master Matrix Scoring & Recommendation

The	County Board of Supervisors have reviewed the Master Matrix and Construction
Permit Applicatio	on for
Public Notice was	s published on $///$ and the proof of publication is attached.
Matrix as scored	byCounty =points. Passing / Failing (Circle One)
If the County scor justifications	red matrix is different than submitted then the County scored matrix is attached with
Supplemental lett	ers or documentation is being sent to DNR
Upon review and	inspection of construction site and documents provided,
we the	County Board of Supervisors recommend the permit application be
Approved / Disa	pproved (Circle One)
Comments or Re	eason for Disapproval:

Signed:

Date:

Chairman

HARDIN COUNTY'S POLICY

FOR PUBLIC COMMENT

- The "Public Comments" section of the agenda is your opportunity to address items not on the agenda. A speaker may speak to one (1) issue per meeting for a maximum of three (3) minutes. Official action cannot be taken by the Board at that time, but may be placed on a future agenda or referred to the appropriate department. Keep items germane and refrain from personal or slanderous remarks.
- 2. The public may address any item on the agenda after recognition by the Chair. State your name, address, and group affiliation (if appropriate). You may speak one (1) time for a maximum of three (3) minutes.

Adopted this 1st day of July, 2009.

HARDIN COUNTY BOARD OF SUPERVISORS

Junior

Vim Johnson, Chair

Ennr Millen

Erv Miller, Member

Ed Bear, Member