

PLANNING & DEVELOPMENT

500 West Fourth Street

Davenport, Iowa 52801-1106

E-mail: planning@scottcountyiowa.com

Office: (563) 326-8643

Fax: (563) 326-8257



Item 08
07-14-15

Timothy Huey
Director

To: Dee F. Bruemmer, County Administrator

From: Timothy Huey, Planning Director

Date: July 7, 2015

Re: County review and public hearing on the Construction Permit Application of Sievers Family Farms, LLC in the S¹/₂NE¹/₄ Section 32, T80N, R1E (Liberty Township) for the expansion of a confined animal feeding operation (cattle) located at 26618 20th Avenue.

On June 23rd the above referenced application was submitted to the Iowa DNR. Normally, Scott County has 30 days from that date to submit comments and a recommendation on that application. However, in order to publish and conduct a public hearing and have the Board of Supervisors act on a recommendation at its following meeting, staff requested a seven (7) day extension until July 31st to submit its review to the Iowa DNR. Sievers Farms did not object to that extension and the IDNR approved it. Notice of the receipt of this application has been published as required by the State regulations. A public hearing was also set for the Board meeting on July 16th to take comments from the public.

In 2010, a previous State construction permit application was approved for the construction of a 4,888 head cattle confinement operation at this location that required compliance with the standards of the Master Matrix. The separation distances for an operation of the size proposed required that any residence, business, church or school in an unincorporated area be no closer than 2,500 feet to the proposed site. There were two residences within 2,500 feet of the site but both property owners had signed waivers of separation distance agreements with Sievers Family Farms. There were no businesses, or schools within a mile of the site. The city limits of New Liberty are about 1½ miles to the northwest.

Only half of the capacity approved in 2010 was constructed. This current request is to re-approve the original capacity and also to add two (2) earthen manure storage basins on the site.

Staff will accompany the IDNR inspector from the Washington, Iowa district office when that inspection is scheduled. Staff will report on that inspection at the Committee of the Whole meeting on Tuesday July 28th. Staff will also be ready to make a recommendation following that inspection and the public hearing at the same COW which will allow the Board consideration of a resolution acting on this application at the July 30th Board meeting and submittal to the IDNR on the 31st.

PLANNING & DEVELOPMENT

500 West Fourth Street

Davenport, Iowa 52801-1106

E-mail: planning@scottcountyiowa.com

Office: (563) 326-8643

Fax: (563) 326-8257



Timothy Huey
Director

**PUBLIC NOTICE TO ALLOW FOR REVIEW AND COMMENT ON AN
APPLICATION FOR A STATE CONSTRUCTION PERMIT
FOR THE CONSTRUCTION OF AN EXPANSION OF AN EXISTING
ANIMAL CONFINEMENT FEEDING OPERATION**

The Scott County Board of Supervisors have on file an application for a State construction permit that has been submitted to the Iowa Department of Natural Resources for the construction of an expansion of the existing animal (cattle) confinement feeding operation in Scott County.

Name of Applicant: Sievers Family Farms LLC
Address 26618 20th Avenue
Stockton, Iowa 52769

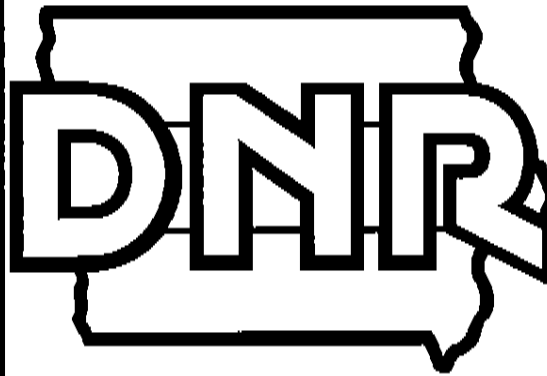
Location of operation S½NE¼ Section 32, T80N, R1E (Liberty Township)

Description of application The existing confined animal feeding operation (cattle) has a capacity of 2,444 animal unit (AU). The proposed expansion will increase the capacity by an additional 2,444 animal unit (AU) for a total capacity of 4,888 animal units (AU). The proposal includes the construction of two (2) 90 foot by 640 foot buildings with a 12 foot wide slatted floor and 2 foot deep pits with each building having a capacity of 1,222 head. There will also be three concrete reception pits, a concrete storage bunker and two earthen manure storage basins.

Examination: The application is on file with the Scott County Planning and Development Department located at 500 West 4th Street, Davenport, Iowa and is available for review by the public during normal working hours 8 AM to 4:30 PM, Monday through Friday.

Comments: Written, faxed or emailed comments for the Board of Supervisors may be delivered or sent to the Scott County Planning and Development Department until Thursday, July 16, 2015 at 4:30 PM. All comments will be forwarded to the Iowa Department of Natural Resources. The fax number for Planning and Development is 563-326-8257 and the email address is planning@scottcountyiowa.com

Additional Information: Timothy Huey, Planning Director
500 West 4th Street
Davenport, Iowa 52801
563-326-8643



Iowa Department of Natural Resources
1900 North Grand Ave.
Gateway N Mall, Suite E17
Spencer, Iowa 51301

FAX SHEET

DELIVER TO: Scott County Auditor **PHONE:** 1-563-326-8643

FAX NUMBER: 1-563-326-8257

FROM: Iowa DNR, Paul Petitti

NUMBER OF 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 master matrix scoring and recommendation for the construction 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: 712/262-2901

Any problems with transmission call: 712/262-4177

**STATE OF IOWA**TERRY E. BRANSTAD, GOVERNOR
KIM REYNOLDS, LT. GOVERNOR**DEPARTMENT OF NATURAL RESOURCES**
CHUCK GIPP, DIRECTOR

June 23, 2015

Scott County Board of Supervisors
c/o County Auditor
Via facsimile and email**REF: Public Notice, Matrix Evaluation and County's Recommendation Required
DNR's Facility ID No. 66391**

Dear Board of Supervisors:

The DNR has received a construction permit application for a confinement feeding operation:
Facility name: **Glenora Feedyard, LLC Site**
Date received by the DNR: 06/23/2015

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

1. Publish a public notice (see example on page following this letter) in a newspaper having a general circulation in the county no later than 07/08/2015 (within 14 days of DNR's receipt of the application) and furnish proof of publication to the DNR:

Note: 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. A sample cover letter is attached. 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 07/24/2015 (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.

3. The board may submit comments or may forward comments from the public, which must be **received** by DNR no later than 07/24/2015. Comments received after that date due will not be considered. Comments may include but are not limited to the following:
- 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.
 - The suitability of soils and the hydrology of the site where construction of a confinement feeding operation structure is proposed.
 - The availability of land for the application of manure originating from the confinement feeding operation.
 - 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 07/24/2015. 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:

Send to:



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

Cindy.Garza@dnr.iowa.gov

If you have any questions about this process, please contact Paul at (712)262-4177 or Cindy at (641) 424-4073.

Sincerely,

ENVIRONMENTAL SERVICES DIVISION



Paul Petitti

Field Services and Compliance Bureau

FIELD OFFICE #3 / 1900 NORTH GRAND, SUITE E17 / SPENCER, IOWA 51301-2200
712-262-4177 / FAX 712-262-2901 / www.iowadnr.gov

PUBLIC NOTICE

(This section is to be completed by the applicant)

The Scott County Board of Supervisors, has received a construction permit application for a confinement feeding operation, more specifically described as follows:

Name of Applicant: Bryan Sievers

Location of the proposed construction: Section 32 of Liberty Township.

Type of confinement feeding operation structure[‡] proposed: Two new 1222 head shallow pit beef cattle confinement buildings, one concrete manure storage bunker, a new 16.7MG two cell earthen manure storage basin and miscellaneous reception pits, pumps and piping to expand an existing beef cattle confinement facility with digester.

Animal Unit Capacity of the Operation after Construction: 4888 animal units.(4888 head of beef cattle)

(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).

<p>Letterhead for County Board of Supervisors Address, town, Iowa COURTHOUSE: # FAX: # Supervisors</p>

_____ County Master Matrix Scoring & Recommendation

The _____ County Board of Supervisors have reviewed the Master Matrix and Construction Permit Application for _____

Public Notice was published on __/__/__ and the proof of publication is attached.

Matrix as scored by _____ County = _____ points. **Passing / Failing** (Circle One)

If the County scored matrix is different than submitted then the County scored matrix is attached with justifications

Supplemental letters 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 / Disapproved** (Circle One)

Comments or Reason for Disapproval:

Signed:

Date:

Chairman


ProAg Engineering, Inc.

Nicholaus J. Rowe, P.E.
507 Milwaukee Street
P.O. Box 992
Lakefield, MN 56150
507-841-3269
nic@proageng.com

June 17, 2015

Mr. Paul Petitti, P.E.
IDNR – Field Office #3
1900 N. Grand Avenue
Gateway North Suite E17
Spencer, IA 51301

RE: Glenora Feed Yard, LLC, IDNR Facility ID#66391
Proposed Cattle Confinement Expansion
Scott County, Iowa
ProAg Project No: 09-074

Dear Paul:

Glenora Feed Yard, LLC, is proposing to re-permit its existing 4,888 head cattle confinement operation. The existing operation was permitted in 2009 as a 4,888 head cattle confinement operation and approximately half the previously permitted site has been constructed and is operational. The proposed site will consist of four confinement barns, four concrete reception pits, a concrete circular manure storage tanks, a solids separator, three concrete storage bunkers, and two earthen manure storage basins. The expansion to existing site will include two confinement barns, three concrete reception pits, a concrete storage bunker, and two earthen manure storage basins. Each confinement barn will hold 1,222 head and is 640' x 90' with a 12' wide slatted floor and 2' deep pits. All of the shallow pits will be cleaned daily with underslat cable manure scrapers that push the manure into concrete reception pits (54' x 12' x 8' deep). A pump in each concrete reception pit supplies either the anaerobic digesters, the solids separator, or directly to the concrete circular tank. A pump in the concrete circular tank will be able to pump liquid effluent to the proposed earthen storage basins. The proposed cattle confinement operation is located in NE¼, Section 32, T-80-N, R-1-E, approximately two miles south of New Liberty in Scott County, Iowa.

SEPARATION DISTANCES

The proposed operation has three separation distance concerns. The proposed unformed earthen manure storage basin needs to meet the required 3,000 feet setback to residences. There are three nearby residences located north and northeast of the proposed operation which do not meet the required separation distance. These residences have signed a separation distance waiver which is enclosed. All of the other required separation distances are shown on the enclosed site plan drawing.

EARTHEN MANURE STORAGE STRUCTURE

Additional storage for the manure generated inside the proposed barns and liquid effluent from the digester will be in the earthen manure storage basins. The proposed basins will maintain the required two (2) feet of freeboard and maintain an effective volume of 16,705,928 gallons. The proposed earthen manure storage basin is designed according to the requirements of I.A.C. 567-65.15(12).

MASTER MATRIX

The Master Matrix was completed for the proposed confinement operation and it meets the minimum score requirements. All four categories have the minimum number of points required. Our figures show the following totals:

TOTAL SCORE = 440 AIR = 78.50 WATER = 128.50 COMMUNITY = 233

DIGESTER WASTE STREAM SUMMARY

Sievers Family Farms, LLC, owner of Glenora Feed Yard, LLC, owns two anaerobic digesters plus additional processing and storage facilities through a partnership known as AgriReNew. Currently, the site produces approximately 10,210 gallons per day of scraper pit manure, 1,613 gallons of bedded pack manure, 6,000 gallons per day of washwater, 14,428 gallons per day of recirculated liquid effluent from the digesters, and 5,749 gallons per day of other off-site co-feeds from various agricultural processing facilities to our two anaerobic digester tanks. AgriReNew currently produces 38,000 gallons per day of digestate from the anaerobic digesters. This equates to 13,870,000 gallons of digestate produced annually. By separating the digestate into bio-fibers (solids portion) and liquid effluent (liquid portion) and recirculating a portion of the liquid effluent back into our anaerobic digesters they have been able to extend the capacity of our current 2.3 million gallon concrete circular tank. Currently, they send approximately 24,000 gallons per day of digestate to our separator. If they are unable to separate they have approximately 96 days of storage capacity in our current storage structure.

AgriReNew would like to reduce the portion of recirculated material going back into our digesters so they can take additional off-site co-feeds from surrounding agricultural processing plants. This would increase the productivity, efficiency, and effectiveness of our digesters. They also want to increase the capacity of the liquid effluent storage so they can store up to one year's worth of liquid effluent produced. Increasing the storage capacity for liquid effluent to approximately 19,000,000 gallons will allow them to store our current production of material plus allow for the expansion of two additional cattle barns and any other new potential off-site co-feeds that might be available for the anaerobic digesters.

FORMED MANURE STORAGE STRUCTURES

The primary storage for manure generated inside the proposed barns will be in formed manure storage structures. The proposed concrete shallow pits, concrete reception pits, and concrete circular tank are all designed according to the requirements of I.A.C. 567-65.15(14). The proposed covered concrete bunker storing the separated solids and manure/bedding meets the requirements of I.A.C. 567-65.15(14)b for dry manure storage structures.

SITE GEOLOGY & GROUNDWATER

The proposed site is located in the Tama soil series characterized by a silty clay loam. The depth to bedrock is approximately 50 feet and no sinkholes or other karst features are mapped in the area. Claire Hruby, IDNR Geologist, completed a karst determination (#2022) to verify the site is not in karst. The determination is enclosed. TEAM Services completed a subsurface exploration for the proposed earthen basins. Loess soil was found above a small deposit of alluvium with glacial till below. The alluvium was found to hold groundwater perched above the glacial till and the basin bottom was set in the loess soil and over two (2) feet above the seasonal high groundwater elevation found in the alluvium. The proposed basin bottoms meet the required two (2) feet separation distance to groundwater. A sample of the silty clay loam loess soil found at the proposed basin bottom elevation and what will be used for the compacted clay liner was tested with the coefficient of permeability meeting IDNR liner requirements. The soil testing results and completed subsurface investigation report are enclosed. The proposed basin bottoms were raised after the investigation report was obtained and this may cause some possible confusion and differences in the report and final design.

Enclosed please find four (4) copies of the following:

1. IDNR Confinement Construction Permit Application, including check for \$500.00
 2. Completed Master Matrix w/supporting documents
 3. Separation Distance Waivers
 4. Road Map of site
 5. IDNR Karst & Alluvial Soil Map of Site
 6. IDNR Karst Determination
 7. Flood Plain Map of site
 8. USGS quadrangle map showing site
-

Mr. Paul Petitti, P.E.

June 17, 2015

Page 3

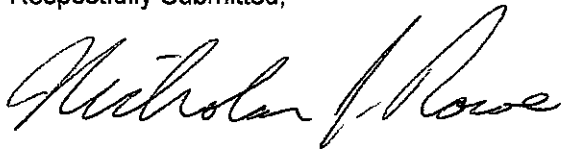
9. Design, Operation, and Maintenance Manual
10. Emergency Response Plan
11. Closure Plan
12. Drainage Tile Certification
13. Technical Specifications
14. Soils Report from TEAM Services
15. 1 mile radius map of site
16. Drawings showing proposed barns, tanks, pits, details, etc.

Please note that the Manure Management Plan was developed by Amber Gillmore at Pinnacle (641-648-7300).

The location is on property owned by Sievers Family Farms, LLC. The location of the site is the NE¼, Section 32, T80N, R1E, Scott County, Iowa. The contact person regarding this site during the site survey is Bryan Sievers at 563-340-6541.

We trust the above information is adequate for your review and approval. Should you have any questions, please do not hesitate to call me at 507-662-5538.

Respectfully Submitted,



Nicholaus J. Rowe, P.E.
ProAg Engineering, Inc.

Enclosures

cc: Sievers Family Farms, LLC

Please staple check here



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): 66391
 - b) Date when the operation was first constructed: 2010
 - c) Date when the last construction, expansion or modification was completed: 2014

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

- d) Is this also an ownership change? Yes No If yes box is checked additional fees apply. See page 8

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

- A) Name of operation: Glenora Feed Yard, LLC
- | | | | | | | |
|-----------|--------------------------|----------------------|--------------------------|-----------------------------------|-----------------------------------|-------------------------|
| Location: | <u>S 1/2</u> | <u>NE 1/4</u> | <u>32</u> | <u>T-80-N, R-1-E</u> | <u>Liberty</u> | <u>Scott</u> |
| | <small>(1/4 1/4)</small> | <small>(1/4)</small> | <small>(Section)</small> | <small>(Tier & Range)</small> | <small>(Name of Township)</small> | <small>(County)</small> |
- B) Applicant information:
- Name: Sievers Family Farms, LLC Title: _____
- Address: 26618 20th Avenue, Stockton, IA 52769
- Telephone: 563-893-2930 Fax: _____ Email: bryan.sievers@gmail.com
- C) Person to contact with questions about this application (if different than applicant):
- Name: Bryan Sievers Title: Manager
- Address: 26618 20th Avenue, Stockton, IA 52769
- Telephone: 563-340-6541 Fax: _____ Email: bryan.sievers@gmail.com

- Enclose aerial photo or engineering drawing showing the proposed location of the confinement feeding operation structure¹ and all applicable separation distances, as requested in Attachment 1 (pages 11-12 or 14-15). See example of aerial photo on pages 18 to 19, at the end of this form.
- I manage or am the majority owner of another confinement feeding operation located within 2,500 feet of the proposed site. Please contact the DNR AFO Program staff at (712) 262-4177 to verify site adjacency requirements.

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

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

ITEM 2 – SITING INFORMATION:

- A) Karst Determination: Go to DNR AFO Siting Atlas at <http://programs.iowadnr.gov/maps/afo/>. Agree to the disclaimer, then search for your site by either scrolling into your location or entering an address or legal description in the bottom search bar. Left click on the location of your proposed structure. Make sure the karst layer box is checked on the map layers. If you cannot access the map, or if you have questions about this issue, contact the AFO Engineer at (712) 262-4177. Check one of the following:
- The site is not in karst or potential karst. Print and enclose the map with the name and location of the site clearly marked.
 - The site is in karst. The upgraded concrete standards of 567 IAC 65.15(14)"c" must be used. Refer to "Applicant's submittal checklist" on page 10 for karst documentation.
 - The site is within 1,000 feet of a known sinkhole, Secondary Containment Barrier is required in accordance with 567 IAC 65.15(17).
- 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, or constructing or modifying a confinement building that uses an unformed manure storage structure³.
 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.

³ Unformed manure storage structure = covered or uncovered anaerobic lagoon, earthen manure storage basin, aerobic earthen structure.
11/2014 cmc

- 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:

Proposed cattle confinement expansion.

- 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 1,667 AU or more, in a county that has adopted a CER.
4. None of the above. Therefore, the master matrix evaluation is not required.

- D) **Qualified Operation (must check one).** If any of boxes 1 to 4 are checked, the operation is also a 'qualified operation'. A qualified operation is required to use a manure storage structure that employs bacterial action which is maintained by the utilization of air or oxygen, and which shall include aeration equipment. However, this requirement does not apply if box 5 is checked. Select the one that best describes your confinement feeding operation:

1. A swine farrowing and gestating operation with an AUC of 2,500 AU or more. If the replacement breeding swine are raised and used at the operation, the animal units for those replacement animals do not count in the operations total AUC.
2. A swine farrow-to-finish operation with an AUC of 5,400 AU or more.
3. A cattle confinement feeding operation (including dairies) with an AUC of 8,500 AU or more.
4. Other confinement feeding operations with an AUC of 5,333 AU or more.
5. 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 as a confinement feeding operation structure¹ without significant reconstruction. Therefore, in Table 1, enter the animal unit capacity of all the confinement buildings, including those that are from an "adjacent" operation located within 2,500 feet. For more information, contact the AFO Program at (712) 262-4177.

Table 1. Animal Unit Capacity (AUC): (No. HEAD) x (FACTOR) = AUC

Animal Species	a) Existing AUC (Before permit)			b) Total Proposed AUC (After permit)		
	(No. Head)	x (Factor)	= AUC	(No. Head)	x (Factor)	= AUC
Slaughter or feeder cattle	2444	1.0	2444	4888	1.0	4888
Immature dairy cattle		1.0			1.0	
Mature dairy cattle		1.4			1.4	
Gestating sows		0.4			0.4	
Farrowing sows & litter		0.4			0.4	
Boars		0.4			0.4	
Gilts		0.4			0.4	
Finished (Market) hogs		0.4			0.4	
Nursery pigs 15 lbs to 55 lbs		0.1			0.1	
Sheep and lambs		0.1			0.1	
Horses		2.0			2.0	
Turkeys 7lbs or more		0.018			0.018	
Turkeys less than 7 lbs		0.0085			0.0085	
Broiler/Layer chickens 3 lbs or more		0.01			0.01	
Broiler/Layer chickens less than 3 lbs		0.0025			0.0025	
Fish		0.001			0.001	
TOTALS:	a) Existing AUC: 2444			b) Total proposed AUC: 4888		

Note: If the "Existing AUC" (column a) is 500 AU or less, enter the "Total proposed AUC" (column b) in the "New AU" (column c)

c) New AU = b) - a):
d)

2444

(This is the AUC of the operation)

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

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

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

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

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

Animal Species	a) Existing AWC (Before Permit)			b) Proposed AWC (After permit)		
	(No. head) x	avg weight	= AWC	(No. head) x	avg weight	= AWC
Slaughter or feeder cattle						
Immature dairy cattle						
Mature dairy cattle						
Gestating sows						
Farrowing sows & litter						
Boars						
Gilts						
Finished (Market) hogs						
Nursery pigs 15 lbs to 55 lbs						
Sheep and lambs						
Horses						
Turkeys 7lbs or more						
Turkeys less than 7 lbs						
Broiler/Layer chickens 3 lbs or more						
Broiler/Layer chickens less than 3 lbs						
Fish						
TOTALS:	a) Existing AWC: <input type="text"/>			b) Total proposed AWC: <input type="text"/>		

c) New AWC = b) - a):

(This is the AWC of the operation)

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

- A) **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:
- A swine farrowing and gestating operation with an AUC of 1,250 AU or more. Use Submittal Checklist No. 2 (page 13).
 - A swine farrow-to-finish operation with an AUC of 2,750 AU or more. Use Submittal Checklist No. 2 (page 13).
 - A cattle confinement feeding operation (including dairies) with an AUC of 4,000 AU or more. Use Submittal Checklist No. 2 (page 13).
 - Other confinement feeding operations with an AUC of 3,000 AU or more. Use Submittal Checklist No. 2 (page 13).
 - None of the above. Use Submittal Checklist No. 1 (page 10).

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 – SIGNATURE:

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

Signature of Applicant(s): Raymond J. Simon, MANAGER Date: 5/28/2015

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/InsideDNR/DNRStaffOffices/EnvironmentalFieldOffices.aspx>.

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).

ITEM 7

**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
Sievers Family Farms, LLC	26618 20th Avenue	Stockton, IA	52769

For each name above, please list below all other confinement feeding operations in Iowa 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 (1/4, 1/4, 1/4, Section, Tier, Range, Township, County)	City
<input checked="" type="checkbox"/> None [There are no other confinements in Iowa in which the above listed person(s) has or have an interest].		

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

Signature of Applicant(s): _____ Date: _____

ITEM 8

**Manure Storage Indemnity Fee Form
for Construction Permits**

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

Credit fees to: Glenora Feed Yard, LLC

Name of operation: Glenora Feed Yard, LLC

INSTRUCTIONS:

- 1) Use the 'Total Proposed AUC' from column b), Table 1 (page 4), to select the appropriate fee line in the table below. The 'Total Proposed AUC' is the AUC of the operation.
- 2) Select the animal specie and row number (see examples). Enter the 'New AU' from column c), Table 1 (page 4). The 'New AU' is the number of AU to be added to an existing operation or being proposed with a new operation. **Note:** If the "Existing AUC" (column a) is 500 AU or less, enter the "Total proposed AUC" (column b) in "New AU" (column c).
- 3) Multiply the 'New AU' by the appropriate 'Fee per AU'. The resulting number is the indemnity fee due.

- **Example 1:** An existing swine operation is expanding from an 'Existing AUC' of 1,000 AU to a 'Total Proposed AUC' of 1,800 AU, and has previously paid an indemnity fee for the existing 1,000 AU. Calculate the indemnity fee as follows: The 'Total Proposed AUC' is between 1,000 AU and 3,000 AU; the animal specie is other than poultry; enter 800 AU in the 'New AU' column, row 4, and multiply it by \$ 0.15:
 $(800 \text{ AU}) \times (\$ 0.15 \text{ per AU}) = \$ 120.00$
- **Example 2:** An existing poultry operation is expanding from an 'Existing AUC' of 250 AU to a 'Total Proposed AUC' of 2,000 AU and has not paid the indemnity fee for animals housed in the existing buildings. Calculate the indemnity fee as follows: The 'Total Proposed AUC' is between 1,000 AU and 3,000 AU; the animal specie is poultry and the indemnity fee has not previously been paid, enter 2,000 AU in the 'New AU' column on row 3, and multiply it by \$0.06:
 $(2,000 \text{ AU}) \times (\$ 0.06 \text{ per AU}) = \$ 120.00$
- **Example 3:** If you are proposing a new swine confinement feeding operation with a 'Total Proposed AUC' of 3,500 AU, enter 3,500 AU in the 'New AU' column, row 6 and multiply it by \$ 0.20:
 $(3,500 \text{ AU}) \times (\$ 0.20 \text{ per AU}) = \$ 700.00$
- **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		x	\$ 0.15 =	
3,000 AU or more	5	Poultry		x	\$ 0.08 =	
	6	Other	2444	x	\$ 0.20 =	\$488.80

ITEM 8 (Cont.)

Filing Fees Form
for Construction Permits

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

Credit fees to: Glenora Feed Yard, LLC

Name of operation: Glenora Feed Yard, LLC

INSTRUCTIONS:

1. If the operation is applying for a construction permit enclose a payment for the following:
 Construction application fee \$250.00.
 (Note: This fee is non-refundable)
2. A manure management plan must be submitted with a filing fee.
 Manure management plan filing fee \$250.00
 (Note: This fee is non-refundable)
3. If this is a change in ownership then indemnity fees must also be paid on the current (existing) total AUC at the appropriate rate on page 7.
 Indemnity fee due to ownership change \$ _____
4. Total filing fees: Add the fees paid in items 1, 2 and 3 (above): \$ 500.00

SUMMARY:	
- Manure Storage Indemnity Fee (see previous page) to be deposited in the Manure Storage Indemnity Fee Fund (474)	\$ <u>488.80</u>
- Total filing fees (see item 4 on this page) to be deposited in the Animal Agriculture Compliance Fund (473)	\$ <u>500.00</u>
TOTAL DUE:	\$ <u>988.80</u>

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.

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 and dry manure storage)	Total Animal Unit Capacity (AUC) (AU)	Residences, Businesses, Churches, Schools		Public use areas
		Unincorporated Areas	Incorporated Areas	
Anaerobic lagoons and uncovered earthen manure storage basins	500 AU or less	1,875 feet	1,875 feet	1,875 feet
	501 AU to < 1,000 AU	1,875 feet	1,875 feet	1,875 feet
	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
Covered earthen manure storage basins	500 AU or less	1,250 feet	1,875 feet	1,875 feet
	501 AU to < 1,000 AU	1,250 feet	1,875 feet	1,875 feet
	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
Uncovered formed manure storage structures	500 AU or less	None	None	None
	501 AU to < 1,000 AU	1,500 feet	1,875 feet	1,875 feet
	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
Confinement buildings and covered formed manure storage structures	500 AU or less	None	None	None
	501 AU to < 1,000 AU	1,250 feet	1,875 feet	1,875 feet
	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
Egg washwater storage structures	500 AU or less	None	None	None
	501 AU to < 1,000 AU	1,000 feet	1,875 feet	1,875 feet
	1,000 AU to < 3,000 AU	1,500 feet	2,500 feet	2,500 feet
	3,000 AU or more	2,000 feet	3,000 feet	3,000 feet

Distances to Wells

Applies to all Animal Feeding Operations, regardless of the size of operation, including operations with 500 AU or less	Public well		Private well	
	Shallow	Deep	Shallow	Deep
Aerobic structure, anaerobic lagoon, earthen manure storage basin, egg washwater storage structure and open feedlot runoff control basin	1,000 feet	400 feet	400 feet	400 feet
Formed manure storage structure, confinement building, open feedlot solids settling facility and open feedlot.	200 feet	100 feet	200 feet	100 feet

Other Distances

Applies to all Confinement Feeding Operations, regardless of animal unit capacity, including operations with 500 AU or less, unless stated otherwise	
Major water sources, wellhead, cistern of an agricultural drainage well or known sinkhole (Excluding farm ponds, privately owned lakes or when a secondary containment barrier is provided)	1,000 feet
Water sources other than major water sources, surface intakes of an agricultural drainage well (Excluding farm ponds, privately owned lakes or when a secondary containment barrier is provided)	500 feet
Designated wetlands (owned and managed by the Federal government or the Iowa DNR)	2,500 feet
Right-of-way of a public thoroughfare (road, street or bridge) constructed or maintained by the state or a political subdivision (excluding operations with 500 AU or less)	100 feet

Master Matrix, Supporting Statements
GLENORA FEED YARD, L.L.C.
PROPOSED CATTLE CONFINEMENT OPERATION

The following items have been claimed in the "Master Matrix" to accrue total points of 440 points (Total Score = 440, Air = 84.50, Water = 110.50, Community = 245.00) . Master Matrix Criterion Number:

2. No public use areas exist within one mile of the proposed site (see map).
3. No schools, churches, or commercial enterprises exist within one mile of the proposed site (see map).
4. An additional separation distance of 369 ft. will be achieved above the minimum 500 ft. from water sources to the proposed site (see map).
5. An additional separation distance of 1,072 ft. will be achieved above the minimum 300 ft. from the nearest thoroughfare (see map).
6. No critical public areas exist within one mile of the proposed farm site (see map).
8. No agriculture drainage wells, known sinkholes or major water sources exist within one mile of the proposed site (see map).
9. No existing confinement facility exists within 3/4 mile of the proposed site (see map).
10. No HQ, HQR, or PWA exists within one mile of the proposed site (see map).
15. Three rows of fast and slow growing trees will be planted on the northeast side of the proposed site. The trees will be inspected each spring and fall with dead trees removed and replanted immediately (see site plan).
16. The operation a large concrete pad near the solids separator. This pad will be used for stacking and storing dry manure removed from the separator. This pad was constructed to meet I.A.C. 567 65.15(14)b for dry manure storage structures. When the pad is emptied it will be inspected for cracks and/or damage with the repairs occurring immediately.
19. The farm site has several areas where a semi-trailer truck can turn around easily as seen on the aerial site map. A large gravel area is located on the south and west side of the proposed barns for trucks to operate without backing up onto the road. This area is inspected daily and all damage is repaired immediately.
20. Glenora Feed Yard, L.L.C. has not been cited with an Administrative Order in the past 5 years.
22. Sievers Family Farms, LLC is the closest resident to the proposed structures.
23. Sievers Family Farms, LLC qualifies for the Family Farm Tax Credit.
- 26c. A digester is used to generate energy on the farm and the liquid manure is injected on the same date it is land applied under the requirements of the manure management plan.
31. No manure applications will encroach upon an additional separation of distance of 200 ft. from any public use areas.
32. No manure applications will encroach upon an additional separation of distance of 200 ft. from any school, church, or commercial enterprise.
33. No manure applications will encroach upon an additional separation of distance of 50 ft. from any wells.
35. No manure applications (injected) will encroach upon an additional separation of distance of 400 ft. from any HQ, HQR, PWA. These features do not exist in this immediately area.
39. The proposed structures increase the commercial property tax base in the county.
40. Glenora Feed Yard, L.L.C. has prepared an emergency action plan (enclosed).
41. Glenora Feed Yard, L.L.C. has prepared a closure plan (enclosed).

MASTER MATRIX-KEY FOR MILE RADIUS MAP

GLENORA FEED YARD, L.L.C.
PROPOSED DAIRY OPERATION
PROAG PROJECT 09-074

Matrix Item#	Actual Distance	Minimum Required Distance	Additional Distance Above Minimum	Qualifying Matrix Points
				Score/Air/Water/Community
1. Closest Residence (Separation Distance Waiver Obtained)	1,535 ft.	3,000 ft. (Basin)	-	---/---/---/---
Closest Residence (Separation Distance Waiver Obtained)	1,800, ft.	2,375 ft. (Confinement)		
2. Closest Public Use Area	None Within 1 mile	3,000 ft.	-	30 / 12 /---/ 18
3. Closest Educational/ Religious/etc.	None Within 1 Mile	3,000 ft.	-	30 / 12 /---/ 18
4. Closest Water	869 ft.	500 ft.	369 ft.	5 /---/ 5 /---
5. Closest Thoroughfare	1,372 ft.	300 ft.	1,070 ft.	30 / 9 / --- / 21
6. Closest Critical Public Area	None Within 1 Mile	3,000 ft.	-	10 / 4 /---/ 6
7. Closest Well	760 ft.	400 ft. (Basin)	360 ft.	
Closest Well	280 ft.	100 ft. (Barn)	180 ft.	
8. Closest Major Water Source	None Within 1 Mile	1,000 ft.	-	50 / 5 / 25 / 20
9. Closest Confinement	4,555 ft.	3,960 ft.	-	25 / 7.5 / 7.5 / 10
10. Closest High Quality Water	None Within 1 Mile	1,000 ft.	-	30 /---/ 22.5 / 7.5

APPENDIX C MASTER MATRIX

Proposed Site Characteristics

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

1. Additional separation distance, above minimum requirements, from proposed confinement structure to the closest:

- * Residence not owned by the owner of the confinement feeding operation,
- * Hospital,
- * Nursing home, or
- * Licensed or registered child care facility.

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

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

2. Additional separation distance, above minimum requirements, from proposed confinement structure to the closest public use area.

	Score	Air	Water	Community
<input type="checkbox"/> 250 feet to 500 feet	5	2.00		3.00
<input type="checkbox"/> 501 feet to 750 feet	10	4.00		6.00
<input type="checkbox"/> 751 feet to 1,000 feet	15	6.00		9.00
<input type="checkbox"/> 1,001 feet to 1,250 feet	20	8.00		12.00
<input type="checkbox"/> 1,251 feet to 1,500	25	10.00		15.00
<input checked="" type="checkbox"/> 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

Final Total 440 84.50 110.50 245.00

* Commercial enterprise.

	Score	Air	Water	Community
<input type="checkbox"/> 250 feet to 500 feet	5	2.00		3.00
<input type="checkbox"/> 501 feet to 750 feet	10	4.00		6.00
<input type="checkbox"/> 751 feet to 1,000 feet	15	6.00		9.00
<input type="checkbox"/> 1,001 feet to 1,250 feet	20	8.00		12.00
<input type="checkbox"/> 1,251 feet to 1,500	25	10.00		15.00
<input checked="" type="checkbox"/> 1,501 feet or more	30	12.00		18.00

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

4. Additional separation distance, above minimum requirement of 500 feet, from proposed confinement structure to the closest water source.

	Score	Air	Water	Community
<input checked="" type="checkbox"/> 250 feet to 500 feet	5		5.00	
<input type="checkbox"/> 501 feet to 750 feet	10		10.00	
<input type="checkbox"/> 751 feet to 1,000 feet	15		15.00	
<input type="checkbox"/> 1,001 feet to 1,250 feet	20		20.00	
<input type="checkbox"/> 1,251 feet to 1,500	25		25.00	
<input type="checkbox"/> 1,501 feet or more	30		30.00	

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

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

	Score	Air	Water	Community
<input checked="" type="checkbox"/> 300 feet or more	30	9.00		21.00

- (A) "Thoroughfare" - a road, street, bridge, or highway open to the public and constructed or maintained by the state or a political subdivision.
- (B) The 300-foot distance includes the 100-foot minimum setback plus additional 200 feet.

6. Additional separation distance, above minimum requirements, from proposed confinement structure to the closest critical public area.

	Score	Air	Water	Community
<input checked="" type="checkbox"/> 500 feet or more	10	4.00		6.00

- (A) All critical public areas as defined in 567--65.1(455B), are public use areas, and therefore subject to public use area minimum separation distances.
- (B) Refer to the construction permit application package to determine the animal unit capacity (or animal weight capacity if an expansion) of the proposed confinement feeding operation. Then refer to Table 6 of 567--Chapter 65 to determine minimum required separation distances.

7. Proposed confinement structure is at least two times the minimum required separation distance from all private and public water wells.

Final Total	440	84.50	110.50	245.00
-------------	-----	-------	--------	--------

	Score	Air	Water	Community
<input type="checkbox"/> Two times the minimum separation distance	30		24.00	6.00

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

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

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

	Score	Air	Water	Community
<input type="checkbox"/> 250 feet to 500 feet	5	0.50	2.50	2.00
<input type="checkbox"/> 501 feet to 750 feet	10	1.00	5.00	4.00
<input type="checkbox"/> 751 feet to 1,000 feet	15	1.50	7.50	6.00
<input type="checkbox"/> 1,001 feet to 1,250 feet	20	2.00	10.00	8.00
<input type="checkbox"/> 1,251 feet to 1,500 feet	25	2.50	12.50	10.00
<input type="checkbox"/> 1,501 feet to 1,750 feet	30	3.00	15.00	12.00
<input type="checkbox"/> 1,751 feet to 2,000 feet	35	3.50	17.50	14.00
<input type="checkbox"/> 2,001 feet to 2,250 feet	40	4.00	20.00	16.00
<input type="checkbox"/> 2,251 feet to 2,500 feet	45	4.50	22.50	18.00
<input checked="" type="checkbox"/> 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
<input checked="" type="checkbox"/> Three-quarter of a mile or more (3,960 feet)	25	7.50	7.50	10.00

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

10. Separation distance from proposed confinement structure to closest:

- * High quality (HQ) waters,
 - * High quality resource (HQR) waters, or
 - * Protected water areas (PWA)
- is at least two times the minimum required separation distance

	Score	Air	Water	Community
<input checked="" type="checkbox"/> 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
<input type="checkbox"/> University of Minnesota OFFSET model results demonstrating an annoyance level less than 2 percent of the time	10	6.00		4.00

- (A) OFFSET can be found at <http://www.extension.umn.edu/distribution/livestocksystems/DI7680.html>. For more information, contact Dr. Larry Jacobson, University of Minnesota, (612) 625-8288, jacob007@tc.umn.edu.

Final Total 440 84.50 110.50 245.00

- (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
<input type="checkbox"/> 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	Air	Water	Community
<input type="checkbox"/> Emergency containment	20		18.00	2.00

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

14. Installation of a filter(s) designed to reduce odors from confinement building(s) exhaust fan(s).

	Score	Air	Water	Community
<input type="checkbox"/> 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
<input checked="" type="checkbox"/> Two times the minimum separation distance	20	10.00		10.00

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

16. Enhancement, above minimum requirements, of structures used in stockpiling and composting activities, such as an impermeable pad and a roof or cover.

	Score	Air	Water	Community
<input checked="" type="checkbox"/> 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
<input type="checkbox"/> 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

Final Total	440	84.50	110.50	245.00
-------------	-----	-------	--------	--------

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
<input type="checkbox"/> Aerated manure storage structure(s)	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
<input checked="" type="checkbox"/> 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
<input checked="" type="checkbox"/> 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
<input type="checkbox"/> 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
<input checked="" type="checkbox"/> Site qualifies for Homestead Tax Exemption or permit applicant is closest resident to proposed structure	25			25.00

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

(A) Applicant 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

Final Total	440	84.50	110.50	245.00
-------------	-----	-------	--------	--------

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
<input checked="" type="checkbox"/> Family Farm Tax Credit qualification	25			25.00

(A) 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.

	Score	Air	Water	Community
<input type="checkbox"/> 1 to 2,000 animal unit capacity	20			20.00
<input type="checkbox"/> 2,001 to 3,000 animal unit capacity	10			10.00
<input checked="" type="checkbox"/> 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
<input type="checkbox"/> Wet/dry feeders or other feeding and watering systems that significantly reduce manure volume	25		12.50	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 one score under each criterion that best reflects the characteristics of the submitted manure management plan.

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

	Score	Air	Water	Community
<input type="checkbox"/> a. Bulk dry manure is sold under Iowa Code Chapter 200A and surface-applied	15		15.00	
<input type="checkbox"/> 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
<input type="checkbox"/> b. Dry manure is composted and land-applied under the requirements of a department manure management plan	10	4.00	4.00	2.00
<input type="checkbox"/> Dry manure is composted and sold so that no manure is applied under the requirements of a department manure	30	12.00	12.00	6.00

Final Total 440 84.50 110.50 245.00

	management plan				
--	-----------------	--	--	--	--

<input type="checkbox"/>	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
<input checked="" type="checkbox"/>	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

<input type="checkbox"/>	d. Dry manure is completely burned to generate energy and no remaining manure is applied under the requirement of a manure management plan	30	9.00	9.00	12.00
<input type="checkbox"/>	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

<input type="checkbox"/>	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
<input type="checkbox"/> 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
<input type="checkbox"/> 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
<input type="checkbox"/> No manure application on HEL farmland	10		10.00	

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

Final Total 440 84.50 110.50 245.00

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
<input type="checkbox"/> Additional separation distance of 200 feet	5	3.25		1.75
<input type="checkbox"/> Additional separation distance of 500 feet	10	6.50		3.50

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

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
<input checked="" type="checkbox"/> 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
<input checked="" type="checkbox"/> Additional separation distance of 200 feet	5	2.00		3.00

- (A) Minimum separation distance for land application of manure broadcast on soil surface: 750 feet.
- (B) Minimum separation distance for land application of manure injected or incorporated on same date as application: 0 feet.
- (C) The additional separation distances must be in the construction permit application and made a condition in the approved construction permit.
- (D) "Educational institution" - a building in which an organized course of study or training is offered to students enrolled in kindergarten through grade 12 and served by local school districts, accredited or approved nonpublic schools, area educational agencies, community colleges, institutions of higher education under the control of the state board of regents, and accredited independent colleges and universities.
- (E) "Religious institution" - a building in which an active congregation is devoted to worship.
- (F) "Commercial enterprise" - a building which is used as a part of a business that manufactures goods, delivers

Final Total 440 84.50 110.50 245.00

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
<input checked="" type="checkbox"/> 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
<input type="checkbox"/> Additional separation distance of 200 feet	5	0.50	2.50	2.00
<input type="checkbox"/> 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
<input type="checkbox"/> Additional separation distance of 200 feet	5		3.75	1.25
<input checked="" type="checkbox"/> Additional separation distance of 400 feet	10		7.50	2.50

- (A) HQ waters are identified in 567--Chapter 61.
 (B) HQR waters are identified in 567--Chapter 61.
 (C) A listing of PWAs is available at:
<http://www.iowadnr.gov/Recreation/CanoeingKayaking/StreamCare/ProtectedWaterAreas.aspx>.

36. Demonstrated community support.

	Score	Air	Water	Community
<input type="checkbox"/> 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
<input type="checkbox"/> Submission of worker safety and protection plan	10			10.00

Final Total 440 84.50 110.50 245.00

- (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
<input type="checkbox"/> 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 Iowa department of workforce development median (45-2093) -OR- the proposed structure increases commercial property tax base in the county.

	Score	Air	Water	Community
<input checked="" type="checkbox"/> Economic value to local community	10			10.00

The Iowa 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
<input checked="" type="checkbox"/> 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
<input checked="" type="checkbox"/> Closure Plan	5		2.50	2.50

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

42. Adoption and implementation of an environmental management system (EMS) recognized by the department.

	Score	Air	Water	Community
<input type="checkbox"/> 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	Water	Community
<input type="checkbox"/> CNMP	10	3.00	3.00	4.00

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

44. Groundwater monitoring wells installed near manure storage structure), and applicant agrees to provide data to the department.

	Score	Air	Water	Community
<input type="checkbox"/> 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

Final Total 440 84.50 110.50 245.00

department, must be in the construction permit application and made a condition in the approved construction permit.

Score to pass

Total Score	Air	Water	Community
880	213.50	271.00	404.50
440	53.38	67.75	101.13

Final Total	440	84.50	110.50	245.00
-------------	-----	-------	--------	--------

2010 → 450 | 72.50 | 154.50 | 223.00

Differences between 2010 Matrix and 2015 Matrix

<u>Site Characteristics</u>	2010 Permit	Points: Air-Water-Community (Total)	2015 Permit Application	Points: Air-Water-Community (Total)
#4 Additional separation distance, above 500' minimum, to closest water source	501 to 750 feet	0.00-0.00-10.00 (10.00)	250 to 500 feet	0.00-0.00-5.00 (5.00)
#7 Two times the minimum required separation distance from all private and public water wells	2x the minimum distance	0.00-24.00-6.00 (30.00)	No points taken	0.00-0.00-0.00 (0.00)
#17 Proposed manure storage structure is formed	Use of formed structure	0.00-27.00-3.00 (30.00)	No points taken	0.00-0.00-0.00 (0.00)
#22 Confinement site can claim Homestead Tax Exemption or permit applicant is closest resident to proposed structure	No points taken	0.00-0.00-0.00 (0.00)	Points taken	0.00-0.00-25.00 (25.00)
#26c Use of methane digester to generate energy from manure and manure is injected or incorporated on the same date it is land-applied under the MMP	No points taken	0.00-0.00-0.00 (0.00)	Points taken	12.00-12.00-6.00 (30.00)