

PLANNING & DEVELOPMENT

600 West Fourth Street

Davenport, Iowa 52801-1106

E-mail: planning@scottcountyiowa.gov

Office: (563) 326-8643 Fax: (563) 326-8257



To: Mahesh Sharma, County Administrator
From: Alan Silas, Planning & Development Specialist
Date: April 15, 2024

Re: County review and public hearing on the Construction Permit Application BTD Cleona Pork 1+ LLC, c/o Ben Dittmer in the SE ¼ of the SE ¼ of Section 8 of Cleona Township for the expansion of an existing confined animal feeding operation at 24118 20th Avenue in unincorporated Scott County.

Scott County's adoption of the Master Matrix allows the County to review applications for State construction permits for confined Animal Feeding Operations (AFOs). The Master Matrix awards points for additional separation distances above the State-required minimums. Points are also awarded based upon the design and operation of the site, such as the development of an emergency action plan, responsible manure application, among others. Points are awarded in the three categories of Air, Water, and Community. A minimum score is required for each of these categories, with a total minimum score of 440 points required to pass the Matrix.

The Iowa Department of Natural Resources (IDNR) notified Scott County it had received the application on March 25, 2024. Scott County has 30 days from the date the IDNR notifies the County that it has received the application to submit comments and a recommendation on that application. In order to fit the submission schedule for Board hearings, staff requested and the applicant has granted a 2-day extension for submittal, which moves the deadline to April 26, 2024. Notice of the receipt of this application, as well as notice of a public hearing, were published in two area newspapers (*North Scott Press*, *Quad City Times*) as required by the IDNR. A public hearing is not required by the IDNR rules, but the Board of Supervisors has the option to hold such hearings. The Board has historically held a public hearing on all such applications.

In addition to publishing public notice, staff has also mailed notice of the public hearing to property owners within 500 feet of the property. Staff has not, as of yet, received any calls or emails regarding this request. Staff will include any written comments and a summary of any verbal comments received at the public hearing with the Board's recommendation to the IDNR.

In reviewing the Master Matrix scoring submitted as part of the construction application, staff used IDNR mapping data available on its AFO Siting webpage (<https://programs.iowadnr.gov/maps/afo/>) to confirm the validity of the Air, Water, and Community points received based on the proposed facility's design and operations, as well

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as its location in the County in comparison to areas and resources deemed “critical” or “protected.” Staff would award the application the following points based on that data:

- Air: 127.25 points awarded / 53.38 required to pass
- Water: 128 points awarded / 67.75 required to pass
- Community: 224.75 points awarded / 101.13 required to pass
- **TOTAL: 480 points awarded / 440 required to pass**

The applicant’s full scoring matrix as well as a detailed scoring matrix prepared by staff are enclosed.

Staff would recommend approval the enclosed resolution, which adopts a recommendation to the IDNR to approve the construction permit application submitted by BTD Cleona Pork 1+ LLC, c/o Ben Dittmer. The IDNR must receive a recommendation from Scott County by April 26, 2024.

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**NOTICE OF SCOTT COUNTY BOARD OF SUPERVISORS
PUBLIC HEARING FOR THE REVIEW OF AN APPLICATION FOR A STATE
CONSTRUCTION PERMIT FOR THE ESTABLISHMENT OF A NEW ANIMAL
CONFINEMENT FEEDING OPERATION**

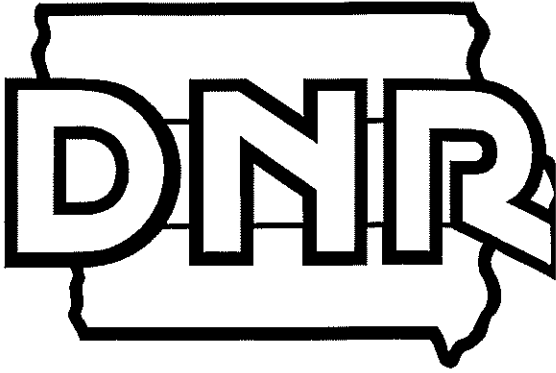
Public Notice is hereby given that the Scott County Board of Supervisors will hold a public hearing on **Thursday, April 25, 2024**, in the 1st Floor Boardroom in the Scott County Administrative Center, 600 West 4th Street, Davenport, Iowa 52801, during their regular meeting which starts promptly at **5:00 P.M.**

The Scott County Board of Supervisors will review and hear public comments on the State of Iowa Construction Permit application of BTD Cleona Pork 1+ LLC, c/o Ben Dittmer in the SE ¼ of the SE ¼ of Section 8, T79N, R1E (Cleona Township) for the establishment of a new confined animal feeding operation. The addresses of the subject property is 24118 20th Avenue, Stockton, Iowa 52769.

The proposed construction would include two (2) new 2,400-head deep pit swine finisher confinement buildings. The Animal Unit Capacity (AUC) of the confinement operation after construction would be 1,920 animal units (4,800 head of swine finishers).

A copy of the application is on file with the Scott County Planning and Development Department and is available for review prior to the hearing during normal working hours 8:00 AM to 3:30 PM, Monday through Friday. If you have questions or want further information please call or write the Planning and Development Department, Administrative Center, 600 West 4th Street, Davenport, Iowa 52801, 563-326-8643, or attend the hearing.

Written, faxed, or emailed comments for the Board of Supervisors may be delivered or sent to the Scott County Planning and Development Department in advance of the public hearing. All comments will be forwarded to the Iowa Department of Natural Resources. The fax number for Scott County Planning and Development is 563-326-8257 and the email address is planning@scottcountyiowa.gov.



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



March 25, 2024

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. 71927**

Dear Board of Supervisors:

The DNR has received a construction permit application for a confinement feeding operation:
Facility name: **BTD CLEONA PORK 1+, LLC Site**
Date received by the DNR: 03/25/2024

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 04/08/2024 (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 Board's 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 04/24/2024 (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 04/24/2024. Comments received after that date due will not be considered. Comments may include but are not limited to the following:

- 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 04/24/2024. 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
712/262-4177

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

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

Sincerely,

Field Services and Compliance Bureau



Paul Petitti

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: BTD CLEONA Pork 1+ LLC, C/o Ben Dittmer

Location of the proposed construction: Section 8 of Cleona Township.

Type of confinement feeding operation structure[‡] proposed: Two new 2400 head deep pit swine finisher confinement buildings for a new swine confinement facility.

Animal Unit Capacity of the Confinement Operation after Construction: 1920 animal units.(4800 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).

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 **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

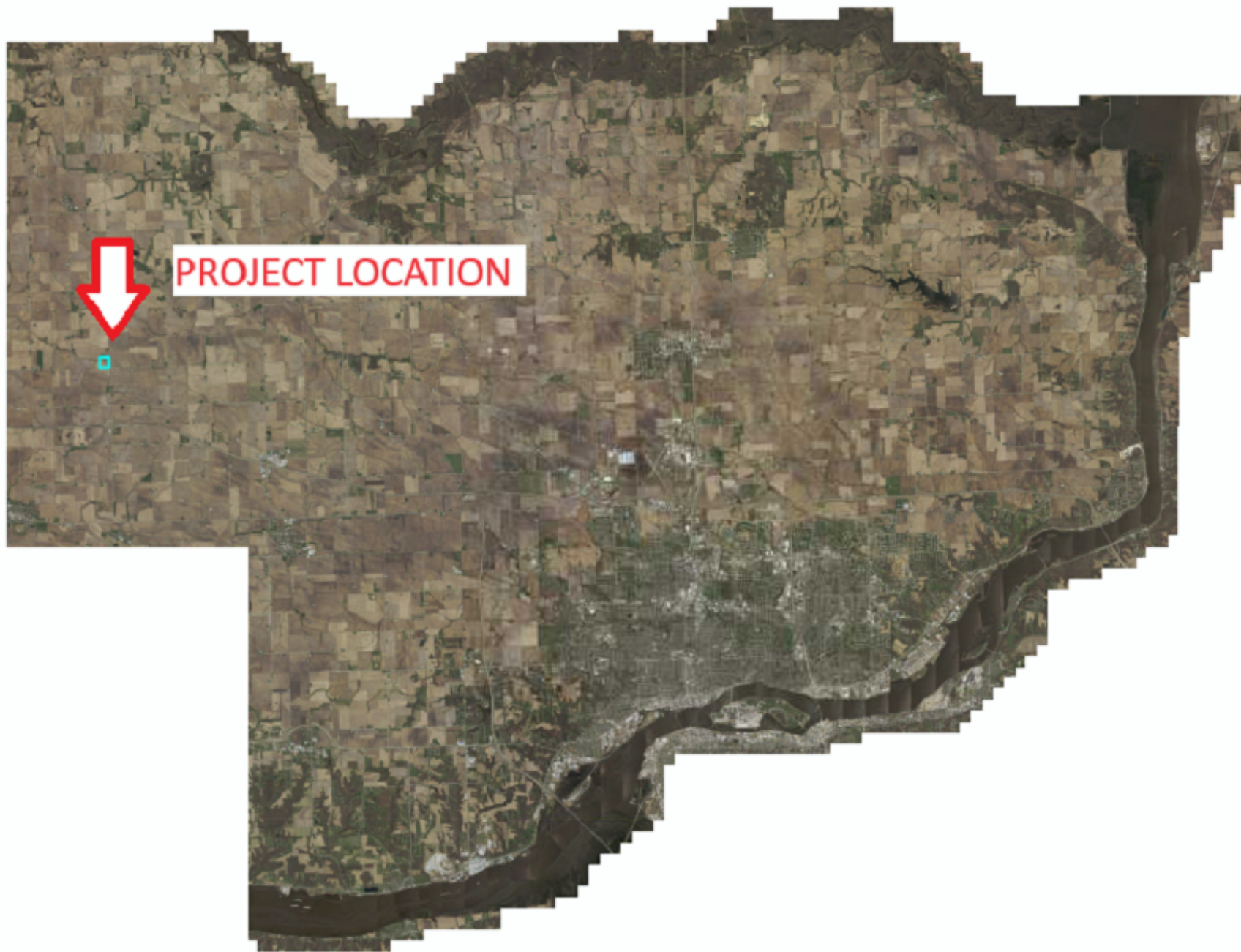
Upon review and inspection of construction site and documents provided, we the _____ County Board of Supervisors recommend the permit application be **Approved / Disapproved** (Circle One)

Comments or Reason for Disapproval:

Signed:

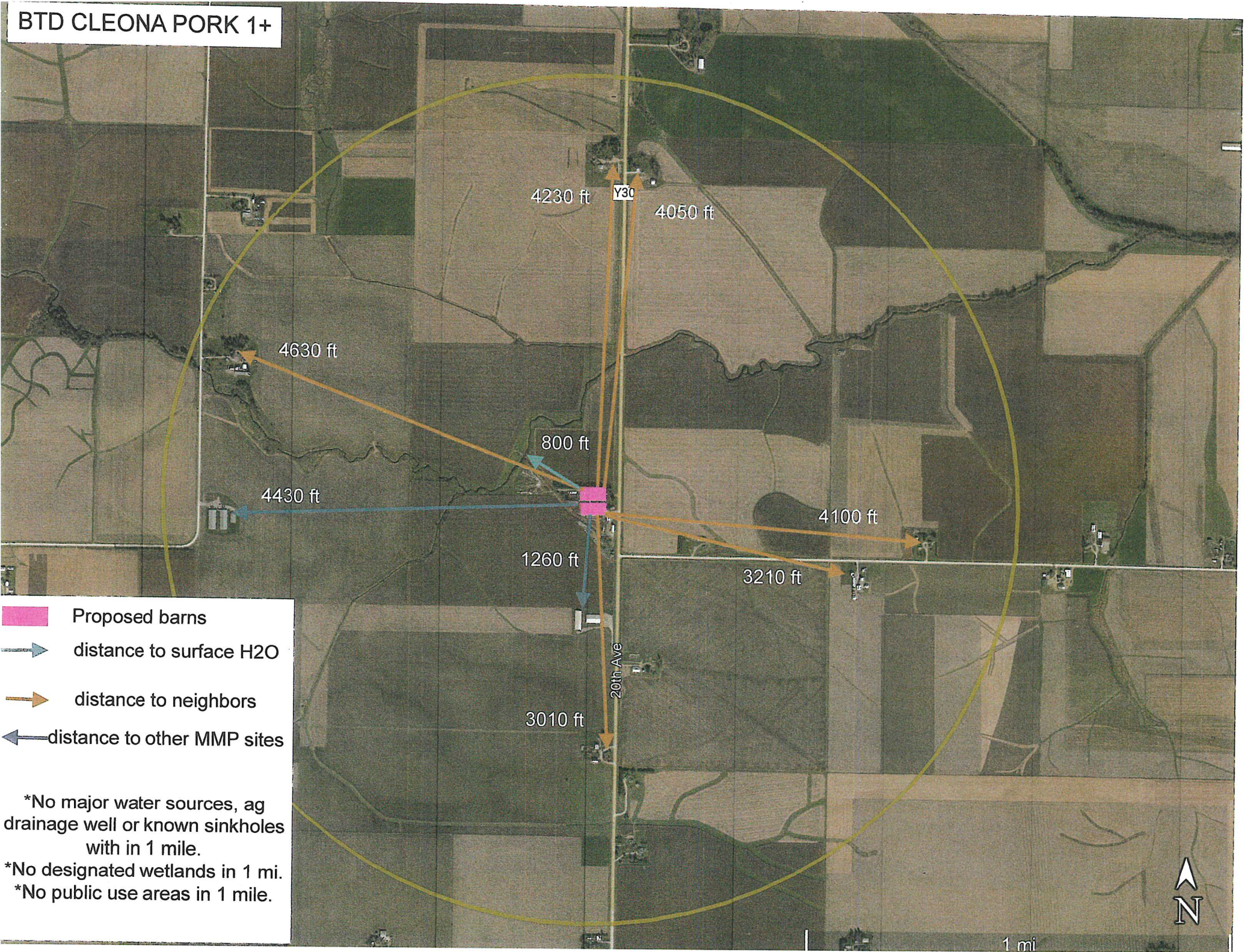
Date:





Chairman



PROJECT LOCATION

BTD CLEONA PORK 1+



-  Proposed barns
-  distance to surface H2O
-  distance to neighbors
-  distance to other MMP sites

*No major water sources, ag drainage well or known sinkholes with in 1 mile.
*No designated wetlands in 1 mi.
*No public use areas in 1 mile.



1 mi

BTD CLEONA PORK 1+

Proposed barn
81'2" x 241'4"

Proposed barn
81'2" x 241'4"

- ★ Proposed well
- Distance to well =200 ft
- Distance to ROW =200 ft
- 50 ft between barns

This property has been cleared of all buildings, concrete and other trash.

20th Ave



600 ft

Scott County Scoring of Master Matrix for BTD Cleona Pork 1+ LLC, c/o Ben Dittmer, 2024 Expansion

The Master Matrix has 44 possible scoring criteria:

The first 25 are listed under **Proposed Site Characteristics**,

The remaining 19 are listed under **Proposed Site Operation and Manure Management Practices**.

Applicants can choose amongst the various criteria in order to score points. Each criterion has a total point value which is then divided and weighted between any of the three subcategories of Air, Water, and Community.

The County can review each criterion upon which the applicant has scored and concur or not concur that the points are accurately taken. The County only reviews the criteria the applicant has used to score points, other criterion for which points are not taken are not evaluated, even though the application may meet that criterion. The selection of scoring criteria is the applicant's option. Evaluating that scoring is the County's option by adopting the Master Matrix.

Proposed Site Characteristics

Scoring Criteria	Total Score	Air	Water	Community
#1 Additional separation distance to the closest Residence not owned by CAFO owner (1,001 to 1,250 feet)	85	55.25	0.00	29.75
#2 Additional separation distance to the closest Public use area (greater than 1,500 feet)	30	12.00	0.00	18.00
#3 Additional separation distance from closest school, church or business (greater than 1,500 feet)	30	12.00	0.00	18.00
#4 Additional separation distance, above 500 foot minimum, to closest water source (250 - 500 feet)	5	0.00	5.00	0.00
#6 Additional separation distance, above minimum of 1,875 feet, from confinement to the closest critical public area (500 feet or greater)	10	4.00	0.00	6.00
#7 Additional separation distance, two times the minimum required, from confinement to all private and public water wells	30	0.00	24.00	6.00
#8 Additional separation distance over the minimum 1,000 feet from drainage well, known sink hole or major water source (greater than 2,500 feet)	50	5.00	25.00	20.00

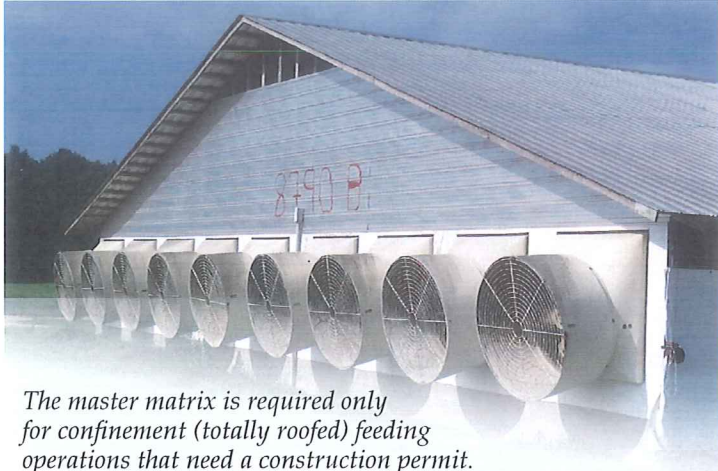
Scoring Criteria	Total Score	Air	Water	Community
#10 Separation distance from closest high quality waters	30	0.00	22.50	7.50
#12 Liquid manure storage structures are covered	30	27.00	0.00	3.00
#17 Proposed manure storage structure is formed	30	0.00	27.00	3.00
#19 Truck Turnaround	20	0.00	0.00	20.00
#20 No history of Administrative Orders in last five years	30	0.00	0.00	30.00
#23 Family Farm Tax Credit	25	0.00	0.00	25.00
#24 Facility Size (1 – 2,00 AUC)	20	0.00	0.00	20.00
#25 Feeding and watering systems that reduce manure volume	25	0.00	12.50	12.50

Proposed Site Operation and Manure Management Practices

Scoring Criteria	Total Score	Air	Water	Community
#26 Injection/incorporation same date it is land-applied	30	12.00	12.00	6.00
Total Scoring by BTD Cleona Pork 1+ LLC, c/o Ben Dittmer	480	127.25	128.00	224.75
Total Scoring by Scott County	480	127.25	128.00	224.75
<i>Minimum Score required to Pass Master Matrix</i>	440	53.38	67.75	101.13

CONSTRUCTION PERMIT APPLICATIONS AND THE MASTER MATRIX

ENVIRONMENTAL SERVICES DIVISION | WWW.IOWADNR.GOV



The master matrix is required only for confinement (totally roofed) feeding operations that need a construction permit. Confinements can be for hogs, cattle or poultry.

CONSTRUCTION PERMITS

THE APPLICATION

This fact sheet is designed to assist county supervisors as they process construction permit applications for confinement feeding operations, especially those using the master matrix. The state of Iowa requires construction permits for confinement animal feeding operations of 1,000 animal units (AU) or more. As an example 1,000 AU is 2,500 head of finishing swine, 1,000 head of beef cattle or 100,000 broiler chickens. The construction permit applicant must deliver, either in person or by certified mail, a copy of the complete permit application to the county.

Counties are required by law to perform some actions regarding the proposed application. A complete permit application should include the construction permit application form, a construction design statement (CDS) or Professional Engineer (P.E.) certification form, a manure management plan (MMP) and master matrix, if applicable.

COUNTY RESPONSIBILITIES

When the applicant delivers the application, the county needs to perform the following steps:

1) **DOCUMENT:** Review the application to be sure all the components of the application are included as checked off on the County Receipt form. Time and date stamp the application. Sign and date the County Verification of Receipt form. The applicant is responsible for sending this receipt along with their application to the Iowa Department of Natural Resources (DNR).

2) **PROVIDE PUBLIC NOTICE:** The DNR logs in the project after formally receiving the construction permit application and the completed County Verification of Receipt form. The DNR then sends a notice to the county by fax and email with instructions to the county. If the application is incomplete, the DNR will request additional material from the applicant.

If there are significant changes, the DNR will request a new county receipt. In this case, several weeks may pass before the DNR sends out the notice to the county. (See sample notice.)

All counties must publish a public notice in the paper, regardless if the master matrix was adopted or not. Publish the notice after the DNR sends an official instruction notice to the county. The DNR's notice will include a sample public notice and provide due dates for completing actions. The county will need to act quickly because public notice is required within 14 days of the county receiving the DNR's official instruction notice. The public notice must include all of the following:

- a) The name of the person applying to receive the construction permit.
- b) The name of the township where the confinement feeding operation structure is proposed.
- c) Each type of confinement feeding operation structure proposed.
- d) The animal unit capacity of the confinement feeding operation if the construction permit is approved.
- e) The time and place where the public may examine the application as provided in Iowa Code section 22.2 (the Public Records Law).
- f) Procedures for providing public comments to the board as provided by the board.

3) **SCORE THE MASTER MATRIX:** Each year every county has the opportunity to adopt a "construction evaluation resolution" allowing the county to actively participate in the construction permit application process. The resolution is commonly referred to as the master matrix. The

master matrix is a list of additional conditions that an applicant can choose from in order to receive points. The applicant must have 440 out of 880 available points, with one-fourth of the points in three categories in order to obtain a permit. The conditions are intended to lessen the potential impact of the confinement facility to the surrounding area.

The county is required to score the master matrix items claimed by the applicant to see if the claimed points appear acceptable. See the DNR fact sheet "Details of Scoring the Master Matrix " for a more comprehensive master matrix discussion.

4) VISIT THE SITE: The local DNR field office will contact the county designee and invite them to the site survey at the proposed site. This usually occurs within 30 days of the DNR receiving the application. During the site visit, DNR staff will verify the required separation distances.

5) KEEP A COPY FOR PUBLIC INSPECTION: Keep a copy of the construction permit application on file for public inspection. The application includes the manure management plan and the master matrix.

6) PROVIDE PROOF OF PUBLICATION: If the proposed project does not require a master matrix, then only a proof of publication must be sent to the DNR.

Send a copy of the proof of publication to:

Paul Petitti
Iowa DNR
1900 N Grand Avenue
Gateway N, Suite E17
Spencer, IA 51301
Phone: 712-262-4177
Fax: 712-262-2901
Paul.Petitti@dnr.iowa.gov

7) PROVIDE A PUBLIC HEARING (OPTIONAL): The county may hold a public hearing for any permit application (master matrix or non-master matrix project). The time and place should be on the public notice. The county may submit any comments from the public hearing to the DNR.

8) MAKE A RECOMMENDATION: On a master matrix project, the county must submit its recommendation to either approve or disapprove the permit application. This recommendation is independent of the county's master matrix scoring. More information can be found in the DNR fact sheet "Details of Scoring the Master Matrix."

9) SUBMIT TO THE DNR: The county must submit the following documents to the DNR's Paul Petitti at the address listed above within 30 days of the county receiving the DNR official instruction notice. It must be received by the DNR (not just postmarked) within the 30-day time limit:

- a) The written county recommendation to approve or disapprove the permit application, regardless of the master matrix scoring.
- b) The board's scoring of the matrix along with documentation and justification if points are denied. If the county agrees with the scoring submitted by the applicant, a sentence to that effect is acceptable and no matrix scoring needs to be submitted.
- c) The proof of publication.
- d) The county may also submit any other relevant documents, including those received by interested parties.

Once all materials are received, the DNR begins reviewing the construction permit application. Find more information on the DNR website.

IMPORTANT LINKS	IOWA DNR FIELD OFFICES
<p>DNR Animal Feeding Operations www.iowadnr.gov/af/</p> <p>Iowa State Association of Counties www.iowacounties.org/News/Topics%20of%20Interest/Matrix%20Information/NewMasterMatrix.htm</p> <p>Questions: Call Gene Tinker at 515-210-1593, or email Kristi Harshbarger at kharshbarter@iowacounties.org.</p>	<p>Northeast Manchester 563-927-2640</p> <p>North central Mason City 641-424-4073</p> <p>Northwest Spencer 712-262-4177</p> <p>Southwest Atlantic 712-243-1934</p> <p>South central Des Moines 515-725-0268</p> <p>Southeast Washington 319-653-2135</p>



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DETAILS OF SCORING THE MASTER MATRIX

ENVIRONMENTAL SERVICES DIVISION | WWW.IOWADNR.GOV



The DNR field office does a site inspection prior to approving or denying a construction permit application. Counties with a master matrix can accompany DNR staff on the inspection. Find more about construction permits and the master matrix on the DNR website: www.iowadnr.gov/afol.

CONSTRUCTION PERMITS

THE MASTER MATRIX

The master matrix is a process that the county can choose to participate in, which should result in a proposed confinement feeding operation adhering to higher standards than required by law. A confinement feeding operation required to use the master matrix will likely have increased separation distances to objects and a more conservative manure management plan (MMP). The master matrix is a tool for the county Board of Supervisors to provide input into a proposed confinement feeding operation.

Every year all counties in Iowa have the opportunity to enroll in the master matrix by adopting a Construction Evaluation Resolution. All counties are notified in December to enroll for the following calendar year. Counties that enroll have the responsibility to evaluate the completed master matrix by each construction permit applicant during that year.

Not all permit applications require a master matrix:

- If the county did not enroll for that year, then no master matrix is required.
- If an existing confinement facility is expanding, and the original construction on the site was before April 1, 2002, and the proposed total animal unit capacity after expansion is 1,667 AU or less, then no master matrix is required.

The master matrix consists of 44 criteria which further describe the potential site for the proposed confinement facility. The applicant may qualify for any or all criteria

and be awarded points for each criterion. An applicant chooses which criteria they would like to claim points on. An applicant must score an overall minimum point total of 440 points as well as one-fourth of the available point total in three subcategories (Air, Water and Community).

If a construction permit application containing a master matrix is received by the county and the instruction notice is received from the DNR, then the county is required to review and score the master matrix items where points were claimed by the applicant. Some of the criteria require documentation or proof that points can be claimed by the applicant. It is the duty of the county to examine the documentation while scoring the master matrix. The county Board of Supervisors may select a representative of the county (zoning official, sanitarian, county engineer or supervisor, etc.) to review and score the master matrix. The county may elect to review and score the master matrix as a group. Scoring the master matrix will require time and effort.

The county may elect to review the master matrix using the documentation (e.g. maps) submitted by the applicant or the county may choose to use computer mapping programs to verify distances claimed by the applicant or measure and confirm any distances at the site survey. The local DNR field office will notify the county representative prior to conducting the site survey. This usually occurs within 30 days of the DNR receiving the application. During the site visit, DNR staff will verify the separation distances required by state law for all construction permit applications.

The county designee may accompany the local DNR field office during the site survey to verify additional matrix separation distances claimed by the applicant.

It is the county's obligation to verify the additional distances claimed by applicant in the matrix and verify objects such as a business or residence. Some master matrix items may require the county to search websites for information while other items may simply require the county to review documentation provided by the applicant and either agree or disagree on the content.

It is the county's obligation to score the matrix in a professional manner. The scoring must be objective. Evaluate and score all matrix items where the applicant claimed points. Award appropriate points for each matrix item where the applicant claimed points. Conversely, deny or reduce points only when you have a reason, e.g., distance error, lack of sufficient documentation such as a design, operation and maintenance plan. The county should not award or deny points arbitrarily. The county cannot award points for items the applicant did not score.

Find a blank copy of the master matrix on the DNR website at www.iowadnr.gov/Environment/LandStewardship/AnimalFeedingOperations/Confinements/ConstructionRequirements/Permitted/MasterMatrix.aspx

Counties may print this copy, fill out the county's scores, submit it to the DNR. The county should also submit its recommendation, proof of publication and any documentation on specific master matrix items that are denied or challenged.

COUNTY APPROVAL

If the county agrees with the master matrix scoring as submitted by the applicant or scores the matrix with a passing score, the county must still submit to the DNR a



recommendation to approve or disapprove the construction permit application.

The DNR shall preliminarily approve the construction permit application provided the application and siting of the building(s) comply with the requirements of Chapter 567 IAC 65 and Iowa Code Chapter 455B. If the construction application does not meet the requirements of Chapter 567 IAC 65 and Iowa Code Chapter 455B, regardless of the outcome of the master matrix, the DNR shall preliminarily disapprove the permit application.

FAILING SCORE ON MATRIX

If the county's scoring results in a failing score of the master matrix then the county must still submit

to the DNR a recommendation to approve or disapprove the construction permit application.

The DNR shall preliminarily disapprove the application if the construction application does not meet the requirements of state law (Chapter 567 Iowa Administrative Code 65 and Iowa Code Chapter 455B, regardless of the county's scoring of the master matrix. If the application meets the requirements of state law, the DNR will conduct an independent evaluation of the master matrix points claimed by the applicant. If the DNR's evaluation shows an acceptable score, the DNR shall preliminarily approve the application. If the DNR's evaluation indicated the score is unacceptable, the DNR shall preliminarily disapprove the application.

APPEALS

Both the applicant and county may contest a preliminary decision to approve or disapprove the construction permit application by demanding a hearing with the state Environmental Protection Commission. The preliminary permit and preliminary denial letter will contain specific instructions for appeal.

FINAL DECISION

A preliminary approval or disapproval becomes final after 14 days if no appeal is submitted.

IMPORTANT LINKS	IOWA DNR FIELD OFFICES
<p>DNR Animal Feeding Operations www.iowadnr.gov/afo/</p> <p>Iowa State Association of Counties www.iowacounties.org/News/Topics%20of%20Interest/Matrix%20Information/NewMasterMatrix.htm</p> <p>Questions: Call Gene Tinker at 563-927-2640 or 515-210-1593, or email Kristi Harshbarger at kharshbarter@iowacounties.org.</p>	<p>Northeast Manchester 563-927-2640</p> <p>North central Mason City 641-424-4073</p> <p>Northwest Spencer 712-262-4177</p> <p>Southwest Atlantic 712-243-1934</p> <p>South central Des Moines 515-725-0268</p> <p>Southeast Washington 319-653-2135</p>



IOWA DEPARTMENT OF NATURAL RESOURCES

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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: _____ Separation distance table used: _____
 - 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

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

A) Name of operation: BTD CLEONA PORK 1+

Location:	<u>SE</u>	<u>SE</u>	<u>8</u>	<u>79N & 1E</u>	<u>CLEONA</u>	<u>SCOTT</u>
	(¼ ¼)	(¼)	(Section)	(Tier & Range)	(Name of Township)	(County)

B) Applicant information:

Name: BTD HOLDINGS, LLC - BEN DITTMER Title: OWNER

Address: 12090 240TH ST. ELDRIDGE, IA 52748

Telephone: 563-320-5589 Fax: _____ Email: _____

C) Person to contact with questions about this application (if different than applicant):

Name: _____ Title: _____

Address: _____

Telephone: _____ Fax: _____ Email: _____

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 have a 10% or more ownership interest in 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/af0/>. 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, 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.

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

B) In your own words, describe in detail, the proposed construction, expansion, installation, modification or repair being proposed in this project. (Must be completed) Attach additional pages if necessary:

Construction of two 8 ft deep pit swine barns. Each having the dimensions of 81'2" x 241'4". The pit fans on these barns will be mounted to concrete pumpouts and there will be no water line entry through the pit wall.

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 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. 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 AUC (After permit)		
	(No. Head)	x (Factor)	= AUC	(No. Head)	x (Factor)	= AUC
Slaughter or feeder cattle		1.0			1.0	
Immature dairy cattle		1.0			1.0	
Mature dairy cattle		1.4			1.4	
Gestating sows		0.4			0.4	
Farrowing sows & litter		0.4			0.4	
Boars		0.4			0.4	
Gilts		0.4			0.4	
Finished (Market) hogs	0	0.4	0	4800	0.4	1920
Nursery pigs 15 lbs to 55 lbs		0.1			0.1	
Sheep and lambs		0.1			0.1	
Goats		0.1			0.1	
Horses		2.0			2.0	
Turkeys 7 lbs or more		0.018			0.018	
Turkeys less than 7 lbs		0.0085			0.0085	
Broiler/Layer chickens 3 lbs or more		0.01			0.01	
Broiler/Layer chickens less than 3 lbs		0.0025			0.0025	
Ducks		0.04			0.04	
Fish 25 grams or more		0.001			0.001	
Fish less than 25 grams		0.00006			0.00006	

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)

TOTALS: a) Existing AUC: b) Total proposed AUC: c) New AU = b) - a):

(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						
Goats						
Horses						
Turkeys 7lbs or more						
Turkeys less than 7 lbs						
Broiler/Layer chickens 3 lbs or more						
Broiler/Layer chickens less than 3 lbs						
Ducks						
Fish 25 grams or more						
Fish less than 25 grams						

c) New AWC = b) - a):

TOTALS: a) Existing AWC: b) Total proposed AWC:

(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- 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:

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

Signature of Applicant(s):



Date:

03/20/24

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).

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:

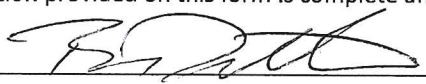
Please list all persons (including corporations, partnerships, etc.) who have an interest in any part of the confinement feeding operation covered by this permit application.

Full Name	Address	City/State	Zip
BEN DITTMER	12090 240TH ST.	ELDRIDGE/IA	52748
BTD HOLDINGS LLC	12090 240TH ST.	ELDRIDGE/IA	52748

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 (¼ ¼, ¼, Section, Tier, Range, Township, County)	City
<input type="checkbox"/> None [There are no other confinements in Iowa in which the above listed person(s) has or have an interest].		
WHEATLAND SITE	SW SE 15, 81N, 1E, SPRING ROCK, CLINTON	WHEATLAND
URMIE SITE	SE SW 9, 80N, 2W, CENTER, CEDAR	TIPTON

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

Signature of Applicant(s):  Date: 03/20/24

ITEM 9

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

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

Credit fees to: BTD HOLDINGS LLC

Name of operation: BTD CLEONA PORK 1+

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	1920	x	\$ 0.15 =	288.00
3,000 AU or more	5	Poultry		x	\$ 0.08 =	
	6	Other		x	\$ 0.20 =	

ITEM 9 (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: BTD HOLDINGS LLC

Name of operation: BTD CLEONA PORK 1+

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>288.00</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>788.00</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.

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: BTD HOLDINGS LLC Telephone: 563-320-5589

Name of operation: BTD CLEONA PORK 1+

Location: SE SE 8 79N & 1E CLEONA SCOTT
(¼ ¼) (¼) (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 Addendum "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)

Revised Documents: Application CDS Matrix MMP Other _____

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 **all** construction permit applications, including those applications not required to be evaluated with the master matrix and applications in counties not participating in the Master matrix.

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

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

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

COUNTY: _____

NAME: _____

TITLE: _____

(Member of the County Board of Supervisors or its designated official/employee)

Date: _____, 20_____.

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



Construction Design Statement (CDS)

Instructions:

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

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

A) Information about the operation:

Name of operation: BTD Cleona Pork 1+ LLC Facility ID No.: _____

Location: SE SE 8 T-79-N R-1-E CLEONA SCOTT

(¼ ¼) (¼) (Section) (Tier & Range) (Name of Township) (County)

Provide latitude and longitude coordinates of the facility driveway at the right of way (ROW) line. Go to the DNR Siting Atlas and left click (to place a teardrop) at that location. The latitude and longitude coordinates appear in the info box. Print off this page, with the info box open (as shown on sample map on Page 7) and submit with CDS.

Latitude: 41.657087 Longitude (negative value) _90.860495

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 81'2" x 241'4" Deep, Belowground, Covered, Concrete Pit Foundation

All pit fans mounted to concrete pumpouts

No water entry through pit wall

C) Utilizing Rural Water System and Domestic Sewage Disposal

- 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.
- I understand that no domestic wastewater (toilets, showers, or sinks) or laundry facilities can be discharged to the manure storage structure.

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.")

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

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

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

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

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](#) on our website and select DNR fact sheet "Distance Requirements for Construction" to find the required separation distances. Or, go directly to the [Minimum Separation Distances for Construction or Expansion of Confinement Feeding Operation Structures Form](#). An [example aerial photo](#) can be found on pages 18 to 19 of the AFO Construction Permit Application (DNR Form 542-1428), or at the previously listed link.

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.

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

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

F) Alluvial Soils Determination: Go to the AFO Siting Atlas as described above. Make sure the alluvial box is checked on the map layers. If you cannot access the map, or if you have questions about this issue, contact DNR Flood Plain at 866-849-0321. Check one of the following:

- The site is not in alluvial soils. Print and enclose the map with the name and location of the site clearly marked.
- If the site is in alluvial soils contact DNR Flood Plain at 866-849-0321. You will be required to submit a petition for a declaratory order if less than 1000 AU or request a flood plain determination if 1000 AU or greater. After receiving Flood Plain determination, submit one of the following:
 - Include correspondence from the DNR showing the site is not in 100-year flood plain or does not require a Flood Plain permit.
 - Include copy of the Flood Plain permit if a Flood Plain permit is required.

NOTE: You may not be in a flood plain per DNR, however in a County Flood Hazard Area and need a county permit.

Section 2 - Manure management plan:

An original manure management plan (MMP) is enclosed with this form, even if a MMP was previously filed.

BTD Cleona Pork 1+ by Ben Dittmer



1/17/24

Owner's Name (print)

Owner's Signature

Date

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

A) Liquid and semi-liquid manure: The proposed formed manure storage structure³ will be (check one):

- A.1 A non-circular concrete tank, belowground, with walls laterally braced or below the building concrete pit designed according to 567 IAC Chapter 65, Appendix D.
- A.2 A non-circular concrete tank, belowground, walls designed according to MidWest Plan Service (MWPS), publication MWPS-36. Include design calculations.
- A.3 A circular concrete tank, walls designed according to MidWest Plan Service (MWPS), publication MWPS TR-9. Include design calculations.
- 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 different dimensions. Complete all of the following information:

Number of buildings: 2 Building name: BTD Cleona Pork 1+

Dimensions of proposed formed manure storage structure³

	Length	Width	Height or depth	Wall thickness	Diameter (circular tanks only)
Feet	241	81	8	0	
Inches	4	2	0	9	

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 page 9), 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 page 10) 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 10 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

Description of reinforcing steel in walls	Proposed vertical steel in walls [see boxes "a" and "b", above]				Proposed horizontal steel in walls (use Table D-5)
	Walls where vehicles are not 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 not 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	
Grade 40, No. 4					12
Grade 40, No. 5					
Grade 60, No. 4				9	
Grade 60, No. 5					

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

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

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

Name of tank manufacturer company: _____

Address: _____

Telephone: _____ Fax: _____

F) **Additional construction design standards:**

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

- If you checked boxes A.1, A.2, A.3 or B.3 (on page 2) **all** 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. **Perimeter tiles must be tied into existing tile, day light, or have an operating sump pump installed in tile riser. Perimeter tiles CANNOT dead end at riser or monitoring port.**
 - In lieu of the drain tile, a certification signed by a PE², a groundwater professional certified pursuant to 567 Chapter 134, or a qualified staff from NRCS, is being submitted indicating that the groundwater elevation, according to 65.15(7)"c", is below the bottom of the formed structure.
3. Minimum as-placed concrete compressive strength (check the following box):
 - All concrete shall have the following minimum as-placed compressive strengths and shall meet American Society for Testing and Materials (ASTM) standard ASTM C 94: 4,000 pounds per square inch (psi) for walls, floors, beams, columns and pumpouts and 3,000 psi for the footings. The average concrete strength by testing shall not be below design strength. No single test result shall be more than 500 psi less than the minimum compressive strength.
4. Cement and aggregates specifications (check the following box):
 - Cementitious materials shall consist of Portland cement conforming to ASTM C 150. Aggregates shall conform to ASTM C 33. Blended cements in conformance with ASTM C 595 are allowed only for concrete placed between March 15 and October 15. Portland-pozzolan cement or Portland blast furnace slag blended cements shall contain at least 75 percent, by mass, of Portland cement.
5. Concrete consolidation and vibration requirements (check the following box):
 - All concrete placed for walls shall be consolidated or vibrated, by manual or mechanical means, or a combination, in a manner which meets ACI 309.
6. Minimum rebar specifications: (check the following box):
 - All rebar used shall be a minimum of grade 40 steel. All rebar, with the exception of rebar dowels connecting the walls to the floor or footings, shall be secured and tied in place prior to the placing of concrete.
7. Wall reinforcement placement specifications (check the following box):
 - All wall reinforcement shall be placed so as to have a rebar cover of 2 inches from the inside face of the wall for a belowground manure storage structure. Vertical wall reinforcement should be placed closest to the inside face. Rebar placement shall not exceed tolerances specified in ACI 318.
8. Minimum floor specifications. Complete part a) and b):
 - a) Floor thickness requirements (check the following box):
 - The floor slab shall be a minimum of 5 inches thick. Nondestructive methods to verify the floor slab thickness may be required by the department. The results shall indicate that at least 95 percent of the floor slab area meets the minimum required thickness. In no case shall the floor slab thickness be less than 4½ inches.
 - b) The floor slab reinforcement shall be located in the middle of the thickness of the floor slab (check one of the following boxes):
 - Formed manure storage structures with a depth of 4 feet or more shall have primary reinforcement consisting of a minimum of #4 rebar placed a maximum of 18 inches on center in each direction placed in a single mat.
 - Formed manure storage structure with a depth less than 4 feet shall have shrinkage reinforcement consisting of a minimum of 6 × 6-W1.4 × W1.4 welded wire fabric.

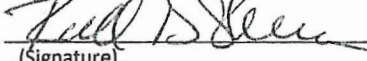
9. Minimum footing specifications (check the following box):
- The footing or the area where the floor comes in contact with the walls and columns shall have a thickness equal to the wall thickness, but in no case be less than 8 inches, and the width shall be at least twice the thickness of the footing. All exterior walls shall have footings below the frostline. Tolerances shall not exceed $-\frac{1}{2}$ 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 12). 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 12). Dowel spacing (bend or extended) shall be the same as the spacing for the vertical rebar.
 - In lieu of dowels, mechanical means or alternate methods may be used as anchorage of interior walls to footings. Please submit structural calculations and details of this proposal.
11. Concrete forms specifications (check the following box):
- All walls shall be formed with rigid forming systems and shall not be earth-formed. Form ties shall be non-removable.
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.
15. Additional design requirements (check the following box, if applicable):
- A formed manure storage structure with a depth greater than 12 feet shall be designed by a PE or an NRCS engineer.

G) **Construction Certification:** The person responsible for constructing the formed manure storage structure³ must sign this page. Any change(s) to the specifications of the formed manure storage structure must be first approved by DNR:

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

Name of operation: BTD Cleona Pork 1+ County: Scott
 Owner's name: Ben Dittmer
 will be constructed in accordance with these minimum requirements. Included with this certification are:

- Page 1-3, for each formed manure storage structure³ that have different dimensions
- Pages 4 to 6 (applicable sections)
- Other documents (specify): _____

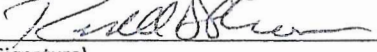
Randall D. Shumaker		1/16/24
(Print name)	(Signature)	(Date)
Custom Builders of Tipton, Inc	209 W. South St.	563-886-6196
(Company)	(Address)	(Phone No.)

(See page 7 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 structure, are required. After soil exploration is completed, each soil boring and pit shall be properly plugged with concrete grout, bentonite, or similar materials.
- (4) Backfilling shall not start until the floor slats have been placed or permanent bracing has been installed, and shall be performed with material free of vegetation, large rocks, or debris.

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

Randall D Shumaker		1/17/24
(Print name)	(Signature)	(Date)
Custom Builders of Tipton, Inc.	209 W. South St.	563-86-6196
(Company)	(Address)	(Phone No.)

Section 4 - Drainage Tile Certification: Required only if applying for a construction permit and constructing three or more confinement feeding operations structures⁴. This section must be completed and signed by the person responsible for excavating the confinement feeding operation structure⁴:


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

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

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

Name of operation: BTD Cleona Pork 1+ County: Scott
 Owner's name: Ben Dittmer

will not impede the drainage of established drainage tile lines which cross their property lines and if construction disturbs drainage tile lines, I will take the necessary measures to reestablish drainage and, upon completion of construction, file a statement that those measures were taken to reestablish drainage."

Randall D. Shumaker		1/16/24
(Print name)	(Signature)	(Date)
Custom Builders of Tipton, Inc	209 W. South St.	563-886-6196
(Company)	(Address)	(Phone No.)



Siting Information

Location	-90.861616 41.656929
Alluvial Soils Present	Alluvial Aquifer
Karst Features	Potential karst
Percent Slope	0 %
Estimated Distances	
Ag Drainage Well	> one mile
Well*	557 ft
Surface Water*	1,352 ft
Major Water Source(River)*	> one mile
Major Water Source(Lake)*	> one mile
HQ/HQR Water*	> one mile
Designated Wetland	> 2,500 ft
Public Land	30,249 ft
Watersheds	
HUC12	Mud Creek
HUC8	Lower Wapsipinicon

*Estimated distances are less

BTD Cleona Park 1+
Potential Karst & Alluvial Soils

BTD CLEONA PORK 1+

Proposed barn
81'2" x 241'4"

#1 East
Soil
boring

Proposed barn
81'2" x 241'4"

#1 West
boring

- ★ Proposed well
- Distance to well = 200 ft
- Distance to ROW = 200 ft
- 50 ft between barns

This property has been cleared of all buildings, concrete and other trash.

20th Ave


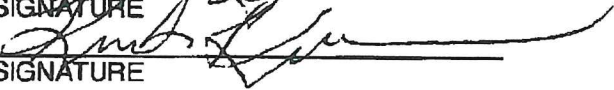


600 ft

PROJECT: BTD GLEONA PORK 1+

DRILLER: LATTA IA LICENSE #: 7152

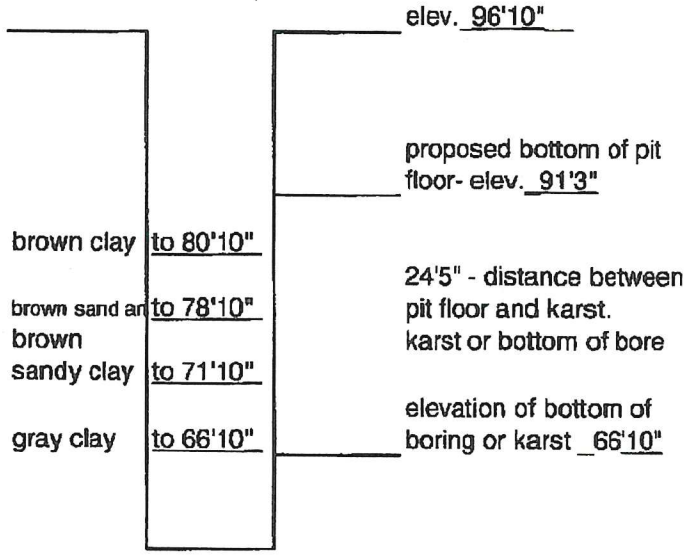
PURPOSE:	EXPLORE FOR KARST BEDROCK AND SUITABLE CLAY (LOW PERM) MATERIAL BETWEEN BOTTOM OF PROPOSED CONCRETE PIT FLOOR AND CARST BEDROCK
RESLUTS:	IN OUR OPINION, THE <u>brown</u> CLAY IS CONSIDERED LOW PERM SOIL AND IS SUITABLE MATERIAL AND THERE IS A MINIMUM OF 5 FEET OF CONTINUOUS LOW PERM SOIL BETWEEN BOTTOM OF PIT FLOOR AND KARST BEDROCK.


SIGNATURE

SIGNATURE

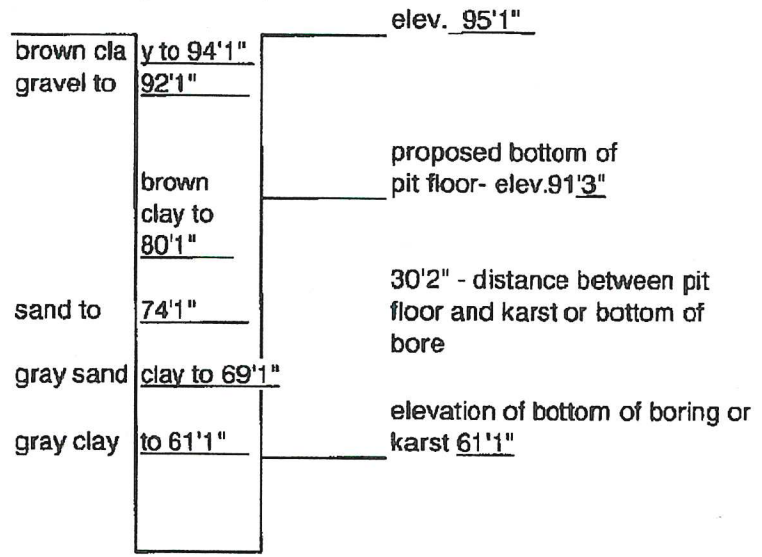
Kurt Hartman
NAME
Kurt Hartman
NAME

3-18-24
DATE
3-18-24
DATE

TEST PIT or BORING 1



TEST PIT or BORING 2



- 1 ON EACH TEST PIT GIVE A DESCRIPTION OF THE SOIL LAYERS
- 2 ON EACH TEST PIT SHOW THE LOCATION OF THE PORPOSED BOTTOM OF THE PIT FLOOR AND BOTTOM OF BORING OR KARST
- 3 SHOW THE DISTANCE BETWEEN PROPOSED BOTTOM OF PIT FLOOR AND KARST.
- 4 IF TEST PITS WERE DUG, DESCRIBE THE BACKFILL AND COMPACTION METHOD.



3/18/2024

GRANDVIEW FARMS
C/O RANDALL SHUMAKER
CUSTOM BUILDERS INC
209 W SOUTH ST
TIPTON, IA 52772

BTD Holdings LLC
BTD Cleona Pork It

Project Description: AFO Floodplain Determination – Proposed construction of two 81'2" x 241'4" swine finishers. (Mud Creek)

Project Latitude / Longitude Location(s): Animal Feeding Operation Structures 41.6573/-90.8620; Scott County

Iowa DNR Project ID Number: 2024-0498

Dear Randall Shumaker,

This letter is in response to your request Randall Shumaker (Petitioner) on behalf of Grandview Farms, for a flood plain determination for the above referenced project. The Iowa DNR Flood Plain and Dam Safety Section (Department) has reviewed the information submitted and concludes that the proposed confinement animal feeding operation structure will not be located on the "one hundred year flood plain" as defined in 567 Iowa Administrative Code (IAC) 65.1(459,459B). You may download additional copies, or verify the Iowa DNR Flood Plain and Dam Safety Section (Department) official response document(s) for this project at the Iowa DNR Flood Plain PERMT website using the tracking number above. (PERMT Website Address: <https://programs.iowadnr.gov/permt/>)

This letter only pertains to the determination of whether the project site is on the "one hundred year flood plain" according to 567 IAC 65.7(9), and **is not** final clearance for construction. All other federal, state and local permits, clearances and approvals must be obtained prior to construction.

It is my understanding that the facility requires a construction permit from our Wastewater Permits Section, Animal Feeding Operation Program, because of the number of animal units. If you have not already done so, please contact Paul Petitti at 712-262-4177.

The owner is responsible for complying with all other local, state and federal statutes, ordinances, rules and permit requirements applicable to the construction, operation and maintenance of the approved works. Please note that a state Flood Plain Development Permit from the Department is not required according to 567 IAC 71. An IDNR Sovereign Lands Construction Permit is also not required, as construction will not be below the ordinary high water level of a "meandered stream" or on other State owned lands, according to the plans. The project may require a Section 404 Permit from the Corps of Engineers, Rock Island District. The Corps of Engineers will contact you separately regarding their approval. Questions can be directed to the Corps by phone at 309-794-5057 or by email at iowaregulatory@usace.army.mil.

Please contact me by phone at 515-304-0982 or by email at graham.young@dnr.iowa.gov with any questions.

Sincerely,



Digitally signed by
Graham Young
Date: 2024.03.18
16:55:35 -05'00'

Graham Young
Iowa DNR, Flood Plain Management and Dam Safety Section

CC: Paul Petitti, Animal Feeding Operations, Iowa DNR Field Office : 3, paul.petitti@dnr.iowa.gov
Tom Dittmer; Grandview Farms, 12090 240th St, Eldridge, IA, 52748, tom.dittmer@grandviewfarmsinc.com
Scott County: Greg Schaapveld, 600 W 4th St, Davenport, IA, 52801,
Gregory.Schaapveld@scottcountyiowa.gov, 563-326-8212



Figure 1 Aerial detailing the location and footprint of the proposed AF0 structures (submitted materials)

BTD Holdings LLC
BTD Cleona Pork ~~FE~~ 1+




Manure Management Plan Form

Animal Feeding Operation Information

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

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

Signed:  Ben Dittmer Date: 03/20/24
(Signature) (Print name)

Name of operation: BTD CLEONA PORK 1+ Facility ID No. NA

Location of the operation: 24118 20 TH AVE.
(911 address)
STOCKTON IOWA 52769
(Town) (State) (Zip)
SE 1/4 of the SE 1/4 of Sec 8 T 79N R 1E CLEONA SCOTT
(1/4 1/4) (1/4) (Section) (Tier & Range) (Township Name) (County)

Owner and contacts of the animal feeding operation:

Owner BTD HOLDINGS, LLC (BEN DITTMER) Phone 563-320-5589
 Address 12090 240TH ST. ELDRIDGE, IA 52748
 E-mail address (optional) _____ Cell phone (optional) _____

Contact person (if different than owner) _____ Phone _____
 Address _____
 E-mail address (optional) _____ Cell phone (optional) _____

Contract company (if applicable) _____ Phone _____
 Address _____

This manure management plan is for: (check one)
 existing operation, not expanding existing operation, expanding existing operation, new owner new operation

Construction and Expansion Dates: _____ date of initial construction
 _____ and all expansions

Table 1. Information about livestock production and manure management system

1	2	3	4	5	6	7	8
Animal type/ Production phase ^a	Max # of animals confined	Manure Storage Structure ^b	N ^c	P ₂ O ₅ ^c	gal/space/dy ^d	Days/yr Facility occupied	Annual Manure Produced ^e
Select production phase ▼			0	0	0.0		000
Select production phase ▼			0	0	0.0		000
Select production phase ▼			0	0	0.0		000
Wean/finish (dry feed)	4800	DEEP PIT	47.7	19.8	0.7	355	1,192,800
Total Gallons							1,192,800

Estimated annual animal production^f: 9,600 animals/year

Source of Manure Nutrient Content Data (standard tables, manure analysis, other): MANURE ANALYSIS FROM SIMILAR BARN



Manure Management Plan Form

Determining Maximum Allowable Manure Application Rates

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

Management Identification (Mgt ID)^f

(CB)CORN-SOYBEAN

(Identify this application scenario by letter)

Method to determine optimum crop yield^g USDA Iowa Ag Statistics County yields Timing of application **SP OR FALL**

Method of application Knifed in or soil injection of liquid manure Application loss factor 0.98

If spray irrigation is used, identify method ⁱ _____

Table 2. Manure nutrient concentration

Manure Nutrient Content (lbs/1000gal or lbs/ton) ^j					
Total N	47.7	P ₂ O ₅		19.8	
%TN Available 1st year ^k	100%	2nd year		3rd year	
Available N 1st year ^l	46.7	2nd year ^m	0.0	3rd year ⁿ	0.0

Table 3. Crop usage rates^o

lb/bu or lb/ton	N	P ₂ O ₅
Corn	1.2	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)

		Com	Soybean	Com	Soybean	
1	Applying Manure For (crop to be grown) ^p	Com	Soybean	Com	Soybean	
2	Optimum Crop Yield ^g	bu or ton/acre	222	71	222	71
3	P ₂ O ₅ removed with crop by harvest ^q	lb/acre	71.0	51.1	71.0	51.1
4	Crop N utilization ^r	lb/acre	266	270	266	270
5a	Legume N credit ^s	lb/acre	50.00	0	50	0
5b	Commercial N planned ^t	lb/acre				
5c	Manure N carryover credit ^u	lb/acre		0.0	0.0	0.0
6	Remaining crop N need ^v	lb/acre	216	270	216	270
7	Manure rate to supply remaining N ^w	gal/acre	4629	5772	4629	5772
8	P ₂ O ₅ applied with N-based rate ^x	lb/acre	92	114	92	114

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

9	Commercial P ₂ O ₅ planned ^y	lb/acre				
10	Manure rate to supply P removal ^z	gal/acre	3588	2582	3588	2582
11	Manure rate for P based plan ^{aa}	gal/acre				
12	Manure N applied with P-based plan ^{bb}	lb/acre	0	0	0	0

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

13	Planned manure application rate ^{cc}	gal/acre	4629	4629
-----------	---	----------	------	------

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

(0-2) N-based manure management.

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

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

(>15) No manure application.



Manure Management Plan Form

Determining Maximum Allowable Manure Application Rates

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

Management Identification (Mgt ID)^f

CC)CORN-CORN

(Identify this application scenario by letter)

Method to determine optimum crop yield^g

Timing of application

Method of application

Application loss factor

If spray irrigation is used, identify method ^h

Table 2. Manure nutrient concentration

Manure Nutrient Content (lbs/1000gal or lbs/ton) ^j					
Total N	47.7	P ₂ O ₅		19.8	
%TN Available 1st year ^k	100%	2nd year		3rd year	
Available N 1st year ^l	46.7	2nd year ^m	0.0	3rd year ⁿ	0.0

Table 3. Crop usage rates^o

lb/bu or lb/ton	N	P ₂ O ₅
Corn	1.2	0.32
Soybean	3.8	0.72
Alfalfa	50	13
Other crop <input type="text"/>	0	0

*Use blank space above to add crop not listed.

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

1	Applying Manure For (crop to be grown) ^p		<input type="text" value="Corn"/>	<input type="text" value="Corn"/>	<input type="text" value="Corn"/>	<input type="text" value="Corn"/>
2	Optimum Crop Yield ^g	bu or ton/acre	222	222	222	222
3	P ₂ O ₅ removed with crop by harvest ^q	lb/acre	71.0	71.0	71.0	71.0
4	Crop N utilization ^r	lb/acre	266	266	266	266
5a	Legume N credit ^s	lb/acre		0	0	0
5b	Commercial N planned ^t	lb/acre	40	40	40	40
5c	Manure N carryover credit ^u	lb/acre		0.0	0.0	0.0
6	Remaining crop N need ^v	lb/acre	226	226	226	226
7	Manure rate to supply remaining N ^w	gal/acre	4843	4843	4843	4843
8	P ₂ O ₅ applied with N-based rate ^x	lb/acre	96	96	96	96

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

9	Commercial P ₂ O ₅ planned ^y	lb/acre				
10	Manure rate to supply P removal ^z	gal/acre	3588	3588	3588	3588
11	Manure rate for P based plan ^{aa}	gal/acre				
12	Manure N applied with P-based plan ^{bb}	lb/acre	0	0	0	0

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

13	Planned manure application rate ^{cc}	gal/acre	48463	4843	4843	4843
----	---	----------	-------	------	------	------

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

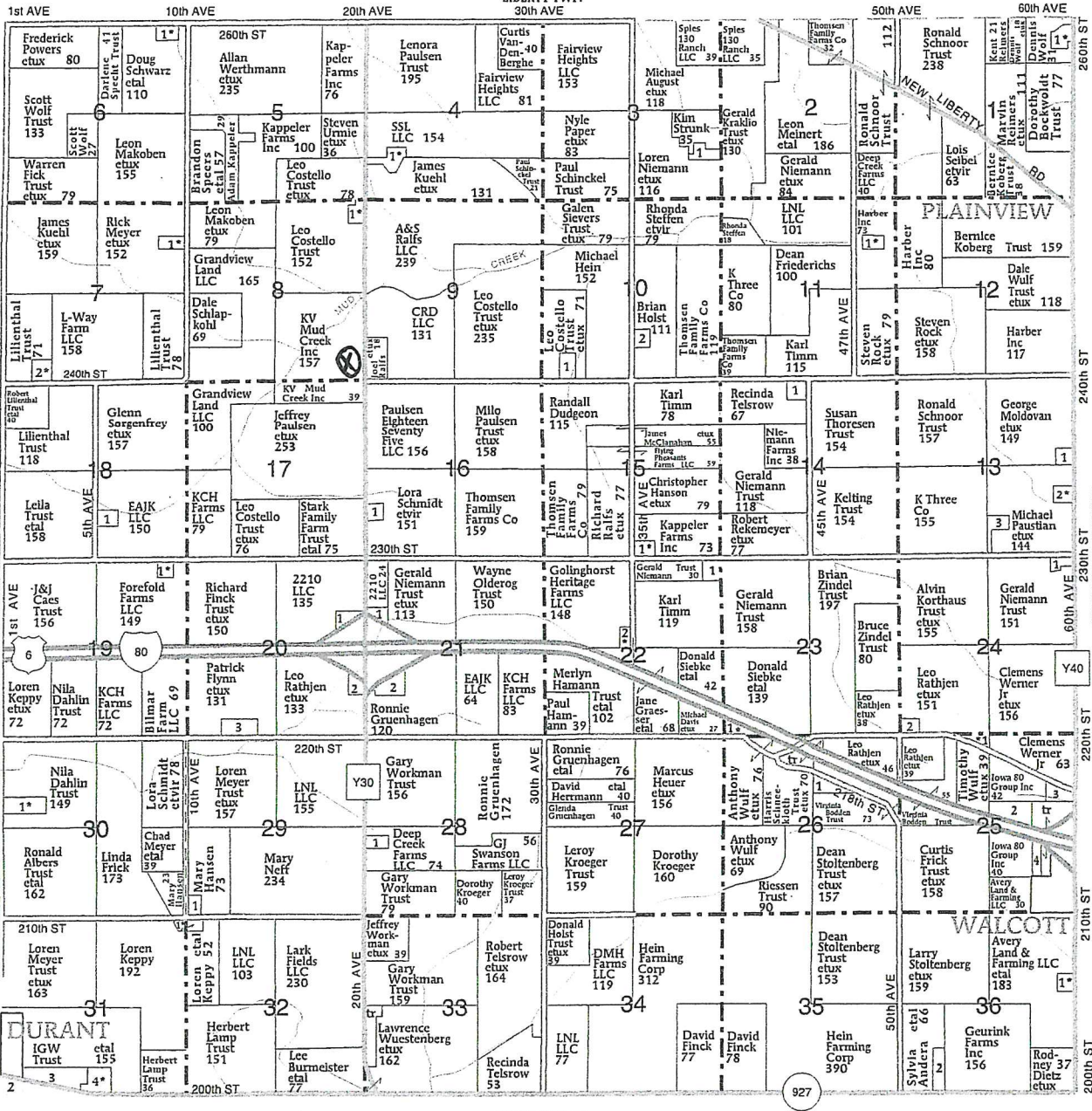
(0-2) N-based manure management.

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

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

(>15) No manure application.

LIBERTY TWP.



BTD Cleona Park 1+

⊗ Site location → SE SE sec. 8 T79N R1E Cleona Scott Co.

CLEONA TOWNSHIP

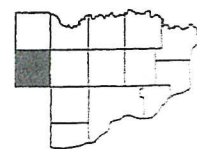
SECTION 1	1
1 KRAMER, DUANE ETUX	7
SECTION 3	7
1 STRUNK, ANDREW	7
SECTION 4	10
1 KUEHL, JAMES ETUX	10
SECTION 6	6
1 SAMUELS, JESSE ETUX	6
SECTION 7	6
1 HAMILTON, JAMES ETUX	6
2 LILIENTHAL, ROBERT ETUX	9
SECTION 8	6
1 SCHLAPROHL, KEITH ETUX	6

SECTION 10	8
1 WEGENER, LUCAS	8
2 HAMRIGHAUSEN, CARMEN	6
SECTION 11	6
1 COSTELLO, KYLE ETUX	6
SECTION 13	5
1 CLAUSSEN, KYLE	5
2 KOLWEY, WILLIAM ETUX	5
3 PAUSTIAN ENTERPRISES LTD	6
SECTION 14	9
1 ROCHHOLZ, KENNETH	9
SECTION 15	5
1 WARREN, MEGAN ETUX	5
SECTION 16	5
1 SCHMIDT, MICHAEL	5

SECTION 18	6
1 HUESMANN, KYLE	6
SECTION 19	5
1 LAWLOR, SARAH ETAL	5
SECTION 20	10
1 ZAHIR, NUHANOVIC	10
2 I-BOS TOWING & RECOVERY INC	6
3 FICK, RONALD	14
SECTION 21	5
1 T&Z RENTAL PROPERTIES LLC	5
2 STATE OF IOWA	20
SECTION 22	8
1 SCHUELLER, DARYL	8
2 CARR, BENJAMIN ETAL	8
SECTION 23	12
1 WULF, ANTHONY ETUX	12

SECTION 24	5
1 GOLDEN, EDNELL	5
2 HG PORK LLC	7
SECTION 25	5
1 RATHJEN, LEO ETUX	5
2 EXIT 284 LAND & DEVELOPMENT	21
3 AVERY PARTNERS LLC	9
4 EXIT 284 LAND & DEVELOPMENT	7
SECTION 26	10
1 ZINDEL TRUST, BRIAN	10
SECTION 28	5
1 RANDALL, LEE	5
SECTION 29	5
1 SCHEMDEL, DEAN	5
SECTION 30	14
1 KEPPY, LOREN ETUX	14

SECTION 31	7
1 SCHEMDEL, THOMAS ETUX	7
2 DURANT CEMETERY ASSN	5
3 CITY OF DURANT	14
4 PAULSEN TRUST, LINDA ETVIR	13
SECTION 36	6
1 TAYLOR, ROBERT ETUX	6
2 STOLTENBERG, LARRY	11





v. 1/22/2007

Iowa Phosphorus Index

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

Field Number	Erosion								+	Runoff				+	Tile / Subsurface Recharge			=	Overall
	Gross Erosion	Sediment Trap Factor	SDR	Buffer Factor	Enrichment Factor	STP Factor	Erosion PI	RCN Factor		STP Factor	P App Factor	Runoff PI	Flow Factor		STP Factor	Tile/Sub PI	P Index		
East Farm --	2.60	1.00	0.43	1.00	1.10	0.83	1.01	1.40	0.21	0.03	0.32	1.00	0.08	0.08	1.42				
Home Place --	1.90	1.00	0.43	1.00	1.10	0.93	0.83	1.40	0.32	0.03	0.48	1.00	0.08	0.08	1.39				
I80 West --	1.70	1.00	0.43	1.00	1.10	0.97	0.78	1.40	0.37	0.03	0.56	1.00	0.08	0.08	1.41				
I80 East --	0.58	1.00	0.49	1.00	1.10	0.97	0.30	1.78	0.37	0.03	0.71	1.00	0.08	0.08	1.09				
Home Place 20 --	1.90	1.00	0.73	1.00	1.10	0.81	1.24	1.40	0.18	0.03	0.28	1.00	0.08	0.08	1.60				



v. 1/22/2007

Iowa Phosphorus Index

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

Field Number	Erosion							+	Runoff				+	Tile / Subsurface Recharge			=	Overall
	Gross Erosion	Sediment Trap Factor	SDR	Buffer Factor	Enrichment Factor	STP Factor	Erosion PI		RCN Factor	STP Factor	P App Factor	Runoff PI		Flow Factor	STP Factor	Tile/Sub PI		P Index
Cleona North --	0.57	1.00	0.49	1.00	1.10	0.99	0.31	1.78	0.40	0.02	0.75	1.00	0.08	0.08	1.14			
Cleona NE --	3.80	1.00	0.66	1.00	1.10	0.83	2.29	1.40	0.20	0.02	0.31	1.00	0.08	0.08	2.68			
Cleona South --	1.90	1.00	0.48	1.00	1.10	0.91	0.91	1.40	0.30	0.02	0.45	1.00	0.08	0.08	1.44			
MC East --	1.90	1.00	0.62	1.00	1.10	1.10	1.42	1.40	0.52	0.02	0.77	1.00	0.08	0.08	2.27			
MC South --	3.70	1.00	0.50	1.00	1.10	1.11	2.26	1.40	0.54	0.02	0.78	1.00	0.08	0.08	3.12			

MANURE ANALYSIS

2023	TOTAL N	P2O5	K2O
Addy #1	43.9	15.2	38
Addy #2	45.6	19.4	38
Addy #3	47.3	19.4	39.7
Addy #4	45.6	17.7	38.9
Paulsen N#1	48.2	17.7	43.1
Paulsen N#2	50.7	25.4	39.7
Paulsen PO #1	52.4	23.7	39.7
AVERAGE	47.7	19.8	39.6

ADVANCED DECISION SERVICES**SCOTT MADDEN****14840 275ST****LONG GROVE IA 52756****Nutrient Land Application**

For: (37510) ADVANCED DECISION SERVICES

Grandview Farms

Finisher Manure

Sample ID: **Addy #1** Lab Number: **10226764** Date Sampled: **2023-11-15**

Parameter	Pounds of Nutrient AR Est. First Year				Method	Reviewer-Date
	Analysis As Received	per 1000 gal	per acre-in	Availability lbs per 1000 gal		
Ammonium nitrogen (total)	0.42 %	35.5	947	36	AOAC 2001.11	asl4 2023-11-24 13:43:26
Organic nitrogen	0.10 %	8.4	226	3	Calculation	Auto 2023-11-24 13:43:26
Nitrogen (total)	0.52 %	43.9	1173	38	WC 055	asl4 2023-11-24 13:43:26
Phosphorus (as P2O5)	0.18 %	15.2	406	11	AOAC 985.01 (mod)	Auto 2023-11-24 13:43:26
Potassium (as K2O)	0.45 %	38.0	1010	34	AOAC 985.01 (mod)	Auto 2023-11-24 13:43:26
Sulfur (total)	0.04 %	3.4	90.2	1	AOAC 985.01 (mod)	asl4 2023-11-24 13:43:26
Calcium (total)	0.10 %	8.4	226	6	AOAC 985.01 (mod)	asl4 2023-11-24 13:43:26
Magnesium (total)	0.07 %	5.9	158	4	AOAC 985.01 (mod)	asl4 2023-11-24 13:43:26
Sodium (total)	0.09 %	7.6	203	5	AOAC 985.01 (mod)	asl4 2023-11-24 13:43:26
Copper (total)	95 ppm	0.80	21.4	0.56	AOAC 985.01 (mod)	asl4 2023-11-24 13:43:26
Iron (total)	86 ppm	0.73	19.4	0.51	AOAC 985.01 (mod)	asl4 2023-11-24 13:43:26
Manganese (total)	22 ppm	0.19	4.96	0.13	AOAC 985.01 (mod)	asl4 2023-11-24 13:43:26
Zinc (total)	140 ppm	1.18	31.6	0.83	AOAC 985.01 (mod)	asl4 2023-11-24 13:43:26
Moisture	95.2 %				SM 2540 G-(2015)	asl4 2023-11-24 13:43:26
Total solids	4.80 %	406			Calculation	Auto 2023-11-24 13:43:26
Total salts	1.13 %	95.5	2550		Calculation	Auto 2023-11-24 13:43:26
pH	8.4 S.U.				EPA 9045C *	asl4 2023-11-24 13:43:26

First year availability of nitrogen is calculated based on pre-plant application with incorporation. Nitrogen available from previous year's application not considered. Total manure salts should not exceed 500 lbs/acre. Less than 500 lbs/acre if annual rainfall is less than 25 inches and/or the soil CEC is less than 12 meq/100g. Salt contributions from commercial fertilizer applications must also be considered. Soil test yearly to monitor phosphorus levels, organic matter, pH, and micronutrients. Spring soil test for residual nitrate - make accurate sidedress recommendations! Nitrogen availability will vary with methods of application and field conditions. The nitrogen availability values used on a manure management plan must comply with state regulations. These regulations vary from state to state.

The result(s) issued on this report only reflect the analysis of the sample(s) submitted.

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**ADVANCED DECISION SERVICES
SCOTT MADDEN
14840 275ST
LONG GROVE IA 52756**

Nutrient Land Application
For: (37510) ADVANCED DECISION SERVICES
Grandview Farms
Finisher Manure

Sample ID: **Addy #2** Lab Number: **10226765** Date Sampled: **2023-11-15**

Parameter	Pounds of Nutrient AR Est. First Year				Method	Reviewer-Date
	Analysis As Received	per 1000 gal	per acre-in	Availability lbs per 1000 gal		
Ammonium nitrogen (total)	0.42 %	35.5	947	36	AOAC 2001.11	asl4 2023-11-24 13:43:42
Organic nitrogen	0.12 %	10.1	271	4	Calculation	Auto 2023-11-24 13:43:42
Nitrogen (total)	0.54 %	45.6	1218	39	WC 055	asl4 2023-11-24 13:43:42
Phosphorus (as P2O5)	0.23 %	19.4	519	14	AOAC 985.01 (mod)	Auto 2023-11-24 13:43:42
Potassium (as K2O)	0.45 %	38.0	1010	34	AOAC 985.01 (mod)	Auto 2023-11-24 13:43:42
Sulfur (total)	0.05 %	4.2	113	2	AOAC 985.01 (mod)	asl4 2023-11-24 13:43:42
Calcium (total)	0.12 %	10.1	271	7	AOAC 985.01 (mod)	asl4 2023-11-24 13:43:42
Magnesium (total)	0.09 %	7.6	203	5	AOAC 985.01 (mod)	asl4 2023-11-24 13:43:42
Sodium (total)	0.09 %	7.6	203	5	AOAC 985.01 (mod)	asl4 2023-11-24 13:43:42
Copper (total)	102 ppm	0.86	23.0	0.60	AOAC 985.01 (mod)	asl4 2023-11-24 13:43:42
Iron (total)	101 ppm	0.85	22.8	0.60	AOAC 985.01 (mod)	asl4 2023-11-24 13:43:42
Manganese (total)	25 ppm	0.21	5.64	0.15	AOAC 985.01 (mod)	asl4 2023-11-24 13:43:42
Zinc (total)	168 ppm	1.42	37.9	0.99	AOAC 985.01 (mod)	asl4 2023-11-24 13:43:42
Moisture	94.6 %				SM 2540 G-(2015)	asl4 2023-11-24 13:43:42
Total solids	5.40 %	456			Calculation	Auto 2023-11-24 13:43:42
Total salts	1.17 %	98.9	2640		Calculation	Auto 2023-11-24 13:43:42
pH	8.4 S.U.				EPA 9045C *	asl4 2023-11-24 13:43:42

First year availability of nitrogen is calculated based on pre-plant application with incorporation. Nitrogen available from previous year's application not considered. Total manure salts should not exceed 500 lbs/acre. Less than 500 lbs/acre if annual rainfall is less than 25 inches and/or the soil CEC is less than 12 meq/100g. Salt contributions from commercial fertilizer applications must also be considered. Soil test yearly to monitor phosphorus levels, organic matter, pH, and micronutrients. Spring soil test for residual nitrate - make accurate sidedress recommendations! Nitrogen availability will vary with methods of application and field conditions. The nitrogen availability values used on a manure management plan must comply with state regulations. These regulations vary from state to state.

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**ADVANCED DECISION SERVICES
 SCOTT MADDEN
 14840 275ST
 LONG GROVE IA 52756**

Nutrient Land Application
 For: (37510) ADVANCED DECISION SERVICES
 Grandview Farms
 Finisher Manure

Sample ID: **Addy #3** Lab Number: **10226766** Date Sampled: **2023-11-15**

Parameter	Pounds of Nutrient AR Est. First Year				Method	Reviewer-Date
	Analysis As Received	per 1000 gal	per acre-in	Availability lbs per 1000 gal		
Ammonium nitrogen (total)	0.42 %	35.5	947	36	AOAC 2001.11	asl4 2023-11-24 13:43:42
Organic nitrogen	0.14 %	11.8	316	4	Calculation	Auto 2023-11-24 13:43:42
Nitrogen (total)	0.56 %	47.3	1263	40	WC 055	asl4 2023-11-24 13:43:42
Phosphorus (as P2O5)	0.23 %	19.4	519	14	AOAC 985.01 (mod)	Auto 2023-11-24 13:43:42
Potassium (as K2O)	0.47 %	39.7	1060	36	AOAC 985.01 (mod)	Auto 2023-11-24 13:43:42
Sulfur (total)	0.06 %	5.1	135	2	AOAC 985.01 (mod)	asl4 2023-11-24 13:43:42
Calcium (total)	0.13 %	11.0	293	8	AOAC 985.01 (mod)	asl4 2023-11-24 13:43:42
Magnesium (total)	0.09 %	7.6	203	5	AOAC 985.01 (mod)	asl4 2023-11-24 13:43:42
Sodium (total)	0.10 %	8.4	226	6	AOAC 985.01 (mod)	asl4 2023-11-24 13:43:42
Copper (total)	111 ppm	0.94	25.0	0.66	AOAC 985.01 (mod)	asl4 2023-11-24 13:43:42
Iron (total)	105 ppm	0.89	23.7	0.62	AOAC 985.01 (mod)	asl4 2023-11-24 13:43:42
Manganese (total)	26 ppm	0.22	5.86	0.15	AOAC 985.01 (mod)	asl4 2023-11-24 13:43:42
Zinc (total)	180 ppm	1.52	40.6	1.06	AOAC 985.01 (mod)	asl4 2023-11-24 13:43:42
Moisture	94.0 %				SM 2540 G-(2015)	asl4 2023-11-24 13:43:42
Total solids	6.00 %	507			Calculation	Auto 2023-11-24 13:43:42
Total salts	1.21 %	102	2730		Calculation	Auto 2023-11-24 13:43:42
pH	8.4 S.U.				EPA 9045C *	asl4 2023-11-24 13:43:42

First year availability of nitrogen is calculated based on pre-plant application with incorporation. Nitrogen available from previous year's application not considered. Total manure salts should not exceed 500 lbs/acre. Less than 500 lbs/acre if annual rainfall is less than 25 inches and/or the soil CEC is less than 12 meq/100g. Salt contributions from commercial fertilizer applications must also be considered. Soil test yearly to monitor phosphorus levels, organic matter, pH, and micronutrients. Spring soil test for residual nitrate - make accurate sidedress recommendations! Nitrogen availability will vary with methods of application and field conditions. The nitrogen availability values used on a manure management plan must comply with state regulations. These regulations vary from state to state.

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**ADVANCED DECISION SERVICES
SCOTT MADDEN
14840 275ST
LONG GROVE IA 52756**

Nutrient Land Application
For: (37510) ADVANCED DECISION SERVICES
Grandview Farms
Finisher Manure

Sample ID: **Addy #4** Lab Number: **10226767** Date Sampled: **2023-11-15**

Parameter	Pounds of Nutrient AR Est. First Year				Method	Reviewer-Date
	Analysis As Received	per 1000 gal	per acre-in	Availability lbs per 1000 gal		
Ammonium nitrogen (total)	0.42 %	35.5	947	36	AOAC 2001.11	asl4 2023-11-24 13:43:42
Organic nitrogen	0.12 %	10.1	271	4	Calculation	Auto 2023-11-24 13:43:42
Nitrogen (total)	0.54 %	45.6	1218	39	WC 055	asl4 2023-11-24 13:43:42
Phosphorus (as P2O5)	0.21 %	17.7	474	12	AOAC 985.01 (mod)	Auto 2023-11-24 13:43:42
Potassium (as K2O)	0.46 %	38.9	1040	35	AOAC 985.01 (mod)	Auto 2023-11-24 13:43:42
Sulfur (total)	0.05 %	4.2	113	2	AOAC 985.01 (mod)	asl4 2023-11-24 13:43:42
Calcium (total)	0.11 %	9.3	248	7	AOAC 985.01 (mod)	asl4 2023-11-24 13:43:42
Magnesium (total)	0.08 %	6.8	180	5	AOAC 985.01 (mod)	asl4 2023-11-24 13:43:42
Sodium (total)	0.09 %	7.6	203	5	AOAC 985.01 (mod)	asl4 2023-11-24 13:43:42
Copper (total)	97 ppm	0.82	21.9	0.57	AOAC 985.01 (mod)	asl4 2023-11-24 13:43:42
Iron (total)	90 ppm	0.76	20.3	0.53	AOAC 985.01 (mod)	asl4 2023-11-24 13:43:42
Manganese (total)	24 ppm	0.20	5.41	0.14	AOAC 985.01 (mod)	asl4 2023-11-24 13:43:42
Zinc (total)	149 ppm	1.26	33.6	0.88	AOAC 985.01 (mod)	asl4 2023-11-24 13:43:42
Moisture	95.0 %				SM 2540 G-(2015)	asl4 2023-11-24 13:43:42
Total solids	5.00 %	422			Calculation	Auto 2023-11-24 13:43:42
Total salts	1.16 %	98.0	2620		Calculation	Auto 2023-11-24 13:43:42
pH	8.6 S.U.				EPA 9045C *	asl4 2023-11-24 13:43:42

First year availability of nitrogen is calculated based on pre-plant application with incorporation. Nitrogen available from previous year's application not considered. Total manure salts should not exceed 500 lbs/acre. Less than 500 lbs/acre if annual rainfall is less than 25 inches and/or the soil CEC is less than 12 meq/100g. Salt contributions from commercial fertilizer applications must also be considered. Soil test yearly to monitor phosphorus levels, organic matter, pH, and micronutrients. Spring soil test for residual nitrate - make accurate sidedress recommendations! Nitrogen availability will vary with methods of application and field conditions. The nitrogen availability values used on a manure management plan must comply with state regulations. These regulations vary from state to state.

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REPORT NUMBER

23-328-9720

REPORT DATE

Nov 24, 2023

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Nov 21, 2023

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PAGE 1/1

ISSUE DATE

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**ADVANCED DECISION SERVICES
SCOTT MADDEN
14840 275ST
LONG GROVE IA 52756**

Nutrient Land Application

For: (37510) ADVANCED DECISION SERVICES
GRANDVIEW

Sample ID: **PAULSEN N #1** Lab Number: **10226746** Date Sampled: **2023-11-15**

Parameter	Pounds of Nutrient AR Est. First Year			Availability	Method	Reviewer-Date
	Analysis As Received	per 1000 gal	per acre-in			
Ammonium nitrogen (total)	0.44 %	37.2	992	37	AOAC 2001.11	asl4 2023-11-24 13:43:08
Organic nitrogen	0.13 %	11.0	293	4	Calculation	Auto 2023-11-24 13:43:08
Nitrogen (total)	0.57 %	48.2	1285	41	WC 055	asl4 2023-11-24 13:43:08
Phosphorus (as P2O5)	0.21 %	17.7	474	12	AOAC 985.01 (mod)	Auto 2023-11-24 13:43:08
Potassium (as K2O)	0.51 %	43.1	1150	39	AOAC 985.01 (mod)	Auto 2023-11-24 13:43:08
Sulfur (total)	0.06 %	5.1	135	2	AOAC 985.01 (mod)	asl4 2023-11-24 13:43:08
Calcium (total)	0.12 %	10.1	271	7	AOAC 985.01 (mod)	asl4 2023-11-24 13:43:08
Magnesium (total)	0.08 %	6.8	180	5	AOAC 985.01 (mod)	asl4 2023-11-24 13:43:08
Sodium (total)	0.10 %	8.4	226	6	AOAC 985.01 (mod)	asl4 2023-11-24 13:43:08
Copper (total)	114 ppm	0.96	25.7	0.67	AOAC 985.01 (mod)	asl4 2023-11-24 13:43:08
Iron (total)	111 ppm	0.94	25.0	0.66	AOAC 985.01 (mod)	asl4 2023-11-24 13:43:08
Manganese (total)	24 ppm	0.20	5.41	0.14	AOAC 985.01 (mod)	asl4 2023-11-24 13:43:08
Zinc (total)	177 ppm	1.50	39.9	1.05	AOAC 985.01 (mod)	asl4 2023-11-24 13:43:08
Moisture	94.5 %				SM 2540 G-(2015)	asl4 2023-11-24 13:43:08
Total solids	5.50 %	465			Calculation	Auto 2023-11-24 13:43:08
Total salts	1.25 %	106	2820		Calculation	Auto 2023-11-24 13:43:08
pH	8.3 S.U.				EPA 9045C *	asl4 2023-11-24 13:43:08

First year availability of nitrogen is calculated based on pre-plant application with incorporation. Nitrogen available from previous year's application not considered. Total manure salts should not exceed 500 lbs/acre. Less than 500 lbs/acre if annual rainfall is less than 25 inches and/or the soil CEC is less than 12 meq/100g. Salt contributions from commercial fertilizer applications must also be considered. Soil test yearly to monitor phosphorus levels, organic matter, pH, and micronutrients. Spring soil test for residual nitrate - make accurate sidedress recommendations! Nitrogen availability will vary with methods of application and field conditions. The nitrogen availability values used on a manure management plan must comply with state regulations. These regulations vary from state to state.

The result(s) issued on this report only reflect the analysis of the sample(s) submitted.

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 www.midwestlabs.com

ADVANCED DECISION SERVICES
SCOTT MADDEN
14840 275ST
LONG GROVE IA 52756

Nutrient Land Application
 For: (37510) ADVANCED DECISION SERVICES
 GRANDVIEW

Sample ID: **PAULSEN N #2** Lab Number: **10226747** Date Sampled: **2023-11-15**

Parameter	Pounds of Nutrient AR Est. First Year				Method	Reviewer-Date
	Analysis As Received	per 1000 gal	per acre-in	Availability lbs per 1000 gal		
Ammonium nitrogen (total)	0.44 %	37.2	992	37	AOAC 2001.11	asl4 2023-11-24 13:43:08
Organic nitrogen	0.16 %	13.5	361	5	Calculation	Auto 2023-11-24 13:43:08
Nitrogen (total)	0.60 %	50.7	1353	42	WC 055	asl4 2023-11-24 13:43:08
Phosphorus (as P2O5)	0.30 %	25.4	676	18	AOAC 985.01 (mod)	Auto 2023-11-24 13:43:08
Potassium (as K2O)	0.47 %	39.7	1060	36	AOAC 985.01 (mod)	Auto 2023-11-24 13:43:08
Sulfur (total)	0.07 %	5.9	158	2	AOAC 985.01 (mod)	asl4 2023-11-24 13:43:08
Calcium (total)	0.17 %	14.4	383	10	AOAC 985.01 (mod)	asl4 2023-11-24 13:43:08
Magnesium (total)	0.10 %	8.4	226	6	AOAC 985.01 (mod)	asl4 2023-11-24 13:43:08
Sodium (total)	0.09 %	7.6	203	5	AOAC 985.01 (mod)	asl4 2023-11-24 13:43:08
Copper (total)	125 ppm	1.06	28.2	0.74	AOAC 985.01 (mod)	asl4 2023-11-24 13:43:08
Iron (total)	135 ppm	1.14	30.4	0.80	AOAC 985.01 (mod)	asl4 2023-11-24 13:43:08
Manganese (total)	31 ppm	0.26	6.99	0.18	AOAC 985.01 (mod)	asl4 2023-11-24 13:43:08
Zinc (total)	179 ppm	1.51	40.4	1.06	AOAC 985.01 (mod)	asl4 2023-11-24 13:43:08
Moisture	91.0 %				SM 2540 G-(2015)	asl4 2023-11-24 13:43:08
Total solids	9.00 %	760			Calculation	Auto 2023-11-24 13:43:08
Total salts	1.27 %	107	2860		Calculation	Auto 2023-11-24 13:43:08
pH	8.4 S.U.				EPA 9045C *	asl4 2023-11-24 13:43:08

First year availability of nitrogen is calculated based on pre-plant application with incorporation. Nitrogen available from previous year's application not considered. Total manure salts should not exceed 500 lbs/acre. Less than 500 lbs/acre if annual rainfall is less than 25 inches and/or the soil CEC is less than 12 meq/100g. Salt contributions from commercial fertilizer applications must also be considered. Soil test yearly to monitor phosphorus levels, organic matter, pH, and micronutrients. Spring soil test for residual nitrate - make accurate sidedress recommendations! Nitrogen availability will vary with methods of application and field conditions. The nitrogen availability values used on a manure management plan must comply with state regulations. These regulations vary from state to state.

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**ADVANCED DECISION SERVICES
SCOTT MADDEN
14840 275ST
LONG GROVE IA 52756**

Nutrient Land Application
For: (37510) ADVANCED DECISION SERVICES
GRANDVIEW

Sample ID: PAULSEN PO #1 Lab Number: 10226748 Date Sampled: 2023-11-15

Parameter	Pounds of Nutrient AR Est. First Year				Method	Reviewer-Date
	Analysis As Received	per 1000 gal	per acre-in	Availability lbs per 1000 gal		
Ammonium nitrogen (total)	0.44 %	37.2	992	37	AOAC 2001.11	asl4 2023-11-24 13:43:08
Organic nitrogen	0.18 %	15.2	406	5	Calculation	Auto 2023-11-24 13:43:08
Nitrogen (total)	0.62 %	52.4	1398	43	WC 055	asl4 2023-11-24 13:43:08
Phosphorus (as P2O5)	0.28 %	23.7	631	17	AOAC 985.01 (mod)	Auto 2023-11-24 13:43:08
Potassium (as K2O)	0.47 %	39.7	1060	36	AOAC 985.01 (mod)	Auto 2023-11-24 13:43:08
Sulfur (total)	0.06 %	5.1	135	2	AOAC 985.01 (mod)	asl4 2023-11-24 13:43:08
Calcium (total)	0.16 %	13.5	361	9	AOAC 985.01 (mod)	asl4 2023-11-24 13:43:08
Magnesium (total)	0.09 %	7.6	203	5	AOAC 985.01 (mod)	asl4 2023-11-24 13:43:08
Sodium (total)	0.09 %	7.6	203	5	AOAC 985.01 (mod)	asl4 2023-11-24 13:43:08
Copper (total)	123 ppm	1.04	27.7	0.73	AOAC 985.01 (mod)	asl4 2023-11-24 13:43:08
Iron (total)	128 ppm	1.08	28.9	0.76	AOAC 985.01 (mod)	asl4 2023-11-24 13:43:08
Manganese (total)	29 ppm	0.24	6.54	0.17	AOAC 985.01 (mod)	asl4 2023-11-24 13:43:08
Zinc (total)	176 ppm	1.49	39.7	1.04	AOAC 985.01 (mod)	asl4 2023-11-24 13:43:08
Moisture	92.7 %				SM 2540 G-(2015)	asl4 2023-11-24 13:43:08
Total solids	7.30 %	617			Calculation	Auto 2023-11-24 13:43:08
Total salts	1.25 %	106	2820		Calculation	Auto 2023-11-24 13:43:08
pH	8.3 S.U.				EPA 9045C *	asl4 2023-11-24 13:43:08

First year availability of nitrogen is calculated based on pre-plant application with incorporation. Nitrogen available from previous year's application not considered. Total manure salts should not exceed 500 lbs/acre. Less than 500 lbs/acre if annual rainfall is less than 25 inches and/or the soil CEC is less than 12 meq/100g. Salt contributions from commercial fertilizer applications must also be considered. Soil test yearly to monitor phosphorus levels, organic matter, pH, and micronutrients. Spring soil test for residual nitrate - make accurate sidedress recommendations! Nitrogen availability will vary with methods of application and field conditions. The nitrogen availability values used on a manure management plan must comply with state regulations. These regulations vary from state to state.

The result(s) issued on this report only reflect the analysis of the sample(s) submitted.

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RUSLE2 Profile Erosion Calculation Record

Cleona North

Inputs:

Location: USA\Iowa\Scott County

Soil: SSURGO\Scott County, Iowa\133 Colo silty clay loam, 0 to 2 percent slopes, occasionally flooded\Colo Silty clay loam occasionally flooded 90%

Slope length (horiz): 300 ft

Avg. slope steepness: 1.0 %

<i>Management</i>	<i>Vegetation</i>	<i>Yield units</i>	<i># yield units, #/ac</i>
managements\CMZ 04\c.Other Local Mgt Records\DITTMERcorn grain;FC, st pt, disk, fcult, z4	vegetations\Corn, grain	bushels	205.00

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: 0.57 t/ac/yr

Detachment on slope: 0.57 t/ac/yr

Soil loss for cons. plan: 0.57 t/ac/yr

Sediment delivery: 0.57 t/ac/yr

Crit. slope length: 300 ft

Surf. cover after planting: 27 %

Avg. ann. total biomass removal: 0 lb/ac

<i>Date</i>	<i>Operation</i>	<i>Vegetation</i>	<i>Surf. res. cov. after op, %</i>
11/1/0	Fert applic. surface broadcast		95
11/1/0	Manure injector, liquid low disturb.30 inch		95
11/3/0	Chisel, st. pt.		63
11/3/0	Disk, tandem secondary and rolling basket		63
4/28/1	Seedbed finisher, fld cult, chop, spk har, rlng bskt		27
5/1/1	planter, double disk opnr	Corn, grain	27
5/3/1	Sprayer, pre-emergence		26
6/7/1	Sprayer, post emergence and fert. tank mix		19
10/20/1	Harvest, killing crop 50pct standing stubble		88

RUSLE2 Profile Erosion Calculation Record

CLEONA NE

Inputs:

Location: USA\Iowa\Scott County

Soil: SSURGO\Scott County, Iowa\120C2 Tama silty clay loam, 5 to 9 percent slopes, eroded\Tama Silty clay loam eroded 90%

Slope length (horiz): 200 ft

Avg. slope steepness: 7.0 %

<i>Management</i>	<i>Vegetation</i>	<i>Yield units</i>	<i># yield units, #/ac</i>
managements\CMZ 04\c.Other Local Mgt Records\DITTMERcorn grain;FC, st pt, disk, fcult, z4	vegetations\Corn, grain	bushels	219.00

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: 3.8 t/ac/yr

Detachment on slope: 3.8 t/ac/yr

Soil loss for cons. plan: 3.8 t/ac/yr

Sediment delivery: 3.8 t/ac/yr

Crit. slope length: 200 ft

Surf. cover after planting: 28 %

Avg. ann. total biomass removal: 0 lb/ac

<i>Date</i>	<i>Operation</i>	<i>Vegetation</i>	<i>Surf. res. cov. after op, %</i>
11/1/0	Fert applic. surface broadcast		96
11/1/0	Manure injector, liquid low disturb.30 inch		96
11/3/0	Chisel, st. pt.		65
11/3/0	Disk, tandem secondary and rolling basket		65
4/28/1	Seedbed finisher, fld cult, chop, spk har, rlng bskt		28
5/1/1	planter, double disk opnr	Corn, grain	28
5/3/1	Sprayer, pre-emergence		28
6/7/1	Sprayer, post emergence and fert. tank mix		20
10/20/1	Harvest, killing crop 50pct standing stubble		90



RUSLE2 Profile Erosion Calculation Record

MC East and Cleona South

Inputs:

Location: USA\Iowa\Scott County

Soil: SSURGO\Scott County, Iowa\420B Tama silty clay loam, terrace, 2 to 5 percent slopes\Tama Silty clay loam 95%

Slope length (horiz): 200 ft

Avg. slope steepness: 4.0 %

<i>Management</i>	<i>Vegetation</i>	<i>Yield units</i>	<i># yield units, #/ac</i>
managements\CMZ 04\c.Other Local Mgt Records\DITTMERcorn grain;FC, st pt, disk, fcult, z4	vegetations\Corn, grain	bushels	232.00

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: 1.9 t/ac/yr

Detachment on slope: 1.9 t/ac/yr

Soil loss for cons. plan: 1.9 t/ac/yr

Sediment delivery: 1.9 t/ac/yr

Crit. slope length: 200 ft

Surf. cover after planting: 29 %

Avg. ann. total biomass removal: 0 lb/ac

<i>Date</i>	<i>Operation</i>	<i>Vegetation</i>	<i>Surf. res. cov. after op, %</i>
11/1/0	Fert applic. surface broadcast		96
11/1/0	Manure injector, liquid low disturb.30 inch		96
11/3/0	Chisel, st. pt.		67
11/3/0	Disk, tandem secondary and rolling basket		67
4/28/1	Seedbed finisher, fld cult, chop, spk har, ring bskt		29
5/1/1	planter, double disk opnr	Corn, grain	29
5/3/1	Sprayer, pre-emergence		29
6/7/1	Sprayer, post emergence and fert. tank mix		21
10/20/1	Harvest, killing crop 50pct standing stubble		91

RUSLE2 Profile Erosion Calculation Record

MC South

Inputs:

Location: USA\Iowa\Scott County

Soil: SSURGO\Scott County, Iowa\120C Tama silty clay loam, 5 to 9 percent slopes\Tama Silty clay loam 90%

Slope length (horiz): 200 ft

Avg. slope steepness: 7.0 %

<i>Management</i>	<i>Vegetation</i>	<i>Yield units</i>	<i># yield units, #/ac</i>
managements\CMZ 04\c.Other Local Mgt Records\DITTMERcorn grain;FC, st pt, disk, fcult, z4	vegetations\Corn, grain	bushels	224.00

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: 3.7 t/ac/yr

Detachment on slope: 3.7 t/ac/yr

Soil loss for cons. plan: 3.7 t/ac/yr

Sediment delivery: 3.7 t/ac/yr

Crit. slope length: 200 ft

Surf. cover after planting: 29 %

Avg. ann. total biomass removal: 0 lb/ac

<i>Date</i>	<i>Operation</i>	<i>Vegetation</i>	<i>Surf. res. cov. after op, %</i>
11/1/0	Fert applic. surface broadcast		96
11/1/0	Manure injector, liquid low disturb.30 inch		96
11/3/0	Chisel, st. pt.		66
11/3/0	Disk, tandem secondary and rolling basket		66
4/28/1	Seedbed finisher, fld cult, chop, spk har, ring bskt		29
5/1/1	planter, double disk opnr	Corn, grain	29
5/3/1	Sprayer, pre-emergence		28
6/7/1	Sprayer, post emergence and fert. tank mix		21
10/20/1	Harvest, killing crop 50pct standing stubble		90

Land Application Agreement

Agreed this date 03/20/24 between BTD Cleona Park I+ LLC, herein known as "producer" and Grandview Land, LLC herein known as "land holder."

The producer will apply manure generated at swine production facilities located at:
24118 20th Ave. Stockton, IA 52769

The land holder acknowledges the use of 455.4 acres of land by the producer for the spreading of manure and such land is located at:

Cleona North - S $\frac{1}{2}$ NW, NE SW, N $\frac{1}{2}$ SE sec 8 - 197.4ac T79N - R1E
+ NE Cleona Twp.
Cleona South - S $\frac{1}{2}$ SW sec. 8, W $\frac{1}{2}$ NW sec. 17 - 170ac.
MC East + South - SE sec. 8 + N $\frac{1}{4}$ NE sec. 17 - 88ac. Scott Co.

This manure agreement will begin 03/20/24 for an initial term of one (1) year and continue thereafter for so long as the swine facility remains in operation. This agreement may be terminated by written notice signed by the parties involved. There needs to be at least 120 day notice of termination.

The manure will be applied in accordance with any and/or all conditions required by any and/or all the confined feeding permits required or issued for this operation to the producer. The producer shall adhere to any and/or all the set forth conditions for manure application on this parcel of land. The producer shall provide the following information to the land holder:

1. Manure tests results generated by an accredited testing facility.
2. Manure application logs documenting applied nutrients to this land.

The land holder shall provide the following information to the producer:

1. Planned crop rotations.
2. Planned commercial fertilizer application.
3. Soil tests to meet producer MMP requirements (samples representing no more than 10 acres and 4 years old or less).

Producer BTD Cleona Park I+ Land holder

By: [Signature] By: Tan [Signature] Mgr

Date: 03/20/24 Date: 3-20-24

Land Application Agreement

Agreed this date 03/20/24 between BTD Cleona Pork 1+, herein known as "producer" and Jeff Paulsen, herein known as "land holder."

The producer will apply manure generated at swine production facilities located at:
24118 20th Ave. Stockton, IA 52769.

The land holder acknowledges the use of 529.6 acres of land by the producer for the spreading of manure and such land is located at:
East Farm - NW sec. 16 ~ 145.8 ac.
Home Place - NE, N $\frac{1}{2}$ SE, NESW, E $\frac{1}{2}$ NW sec. 17 ~ 223.8 ac.
T80 - NE sec. 20 + NW NW sec. 21 ~ 160 ac.
T79N-R1E
Cleona Twp
Scott Co.

This manure agreement will begin 03/20/24 for an initial term of one (1) year and continue thereafter for so long as the swine facility remains in operation. This agreement may be terminated by written notice signed by the parties involved. There needs to be at least 120 day notice of termination.

The manure will be applied in accordance with any and/or all conditions required by any and/or all the confined feeding permits required or issued for this operation to the producer. The producer shall adhere to any and/or all the set forth conditions for manure application on this parcel of land. The producer shall provide the following information to the land holder:

1. Manure tests results generated by an accredited testing facility.
2. Manure application logs documenting applied nutrients to this land.

The land holder shall provide the following information to the producer:

1. Planned crop rotations.
2. Planned commercial fertilizer application.
3. Soil tests to meet producer MMP requirements (samples representing no more than 10 acres and 4 years old or less).

Producer BTD Cleona Pork 1+ Land holder

By: [Signature] By: [Signature]

Date: 03/20/24 Date: 3-20-24

CRD LLC (Deed)
1102 8TH ST
DURANT IA 52747

GRANDVIEW LAND LLC (Deed)
12090 W 240TH ST
ELDRIDGE IA 52748

PAULSEN 1875 LLC (Deed)
23536 20TH AVE
STOCKTON IA 52769

RALFS JOEL S (Deed)
1102 8TH ST
DURANT IA 52747

RALFS KIMBERLY A (Deed)
1102 8TH ST
DURANT IA 52747

BTD CLEONA PORK 1+
Master Matrix points table

Question	Score	Air	Water	Community
1	85	55.25		29.75
2	30	12		18
3	30	12		18
4	5		5	
5				
6	10	4		6
7	30		24	6
8	50	5	25	20
9				
10	30		22.5	7.5
11				
12	30	27		3
13				
14				
15				
16				
17	30		27	3
18				
19	20			20
20	30			30
21				
22				
23	25			25
24	20			20
25	25		12.5	12.5
26	30	12	12	6
27				
28				
29				
30				
31				
32				
33				
34				
35				
36				
37				
38				
39				
40				
41				
42				
43				
44				
TOTALS	480	127.25	128	224.75

440 53.38 67.75 101.13 PASSING SCORE

IOWA MASTER MATRIX SUPPLEMENT

BTD CLEONA PORK 1+

MARCH 2024

This document will provide documentation, design information along with operation and maintenance (O&M) plans for items in the Master Matrix where points were gained.

Table 1. Summary table of matrix questions receiving points

Question #	Description	Actual
	Site Separation Distances	
1	Residence, etc	>1001 ft to nearest
2	public use area >2500 ft (Table 6)	>1mile to Sunbury
3	school, church, business >2500ft	4345 ft to winery
4	Closest water source >250ft over 500ft	800 ft to Mud Creek
6	critical public area	>1 mi to CPA
7	Distance from wells	All wells at least 200ft
8	drainage wells, sinkholes, major water sources	> 1 mile
10	high quality/protected waters(>5000ft)	>1 mile to Wapsi
12	covered manure storage	design / O&M, CDS
17	formed manure storage structure	design / O&M, CDS
19	Truck turnaround	Design / O&M, permit
20	No administrative orders	personal statement
23	Family Farm Tax Credit qualification	personal statement
24	Facility Size	1920 au
25	Feed and water systems	design / O&M
26	Manure Injection or incorporation same day	O&M

12. Covered Manure Storage

This facility has deep pits for manure storage which are formed manure storage structures directly beneath a floor where animals are housed in a confinement feeding operation. The design is based upon the attached building drawings and specs from the builder. The structure will be maintained to ensure its structural integrity for its useful life.

17. Formed Manure Storage Structure

The deep pit manure storage is designed to be below floor storage. The concrete design for the structure will adhere to the specs outlined in the building plans to ensure the integrity of the structure.

- The storage structure will be measured for manure volume monthly to monitor the amount of manure being produced.
- The volume of manure will be recorded and records maintained on site.
- A visual inspection of the outer above ground perimeter will be made on a semi-annual basis to check for any structural challenges to the storage structure.
- The perimeter tile outside of the storage structure will be monitored monthly over 3 years to determine the average amount of water present.
- The drainage tile outside of the storage structure will be visually checked on a monthly basis to monitor for potential manure contamination by checking color.
- A sample of the water will be taken during the monthly check if the depth is significantly higher than average (1.5 times the average for the month).
- Foreign materials will not be added to the manure storage structure purposefully.
- Durable lids and caution signs will be used to cover the manure pump outs located along the sides of the structure.
- Proper fit and placement of lids will be checked monthly.

19. Proposed confinement site has a suitable truck turnaround area so that semitrailers do not have to back into the facility from the road. The truck turnaround will be a drive wide enough for semis to drive in off the road and will be able to pull through on a new drive to be constructed to connect the individual barn driveways.

- a. When there has been significant snowfall, the snow will be removed from the drive and turnaround to allow for safe entrance and exit of trucks.
- b. The structure of the turnaround will be maintained with aggregate 2" to 5" thick.

20. I have no history of Administrative Orders in the last five years related to environmental and worker protection.

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

24. The total number of swine housed on site will be 4800 head which equals 1920 animal units. [4800 hd * 0.4 conversion factor = 1920 AU]

25. Feed and Water Systems

The feed and water systems to be used in this facility are intended to reduce feed and water wastage which could impact the manure storage. The feeders are dry feeders and the waterers are cup waterers.

- Feeders and waterers will be checked daily for proper operation.
- If the feeder or waterer is not in proper operation and is causing wasted feed or water it will be addressed appropriately by repair or adjustment.
- Measurement of manure volume in the storage pit will be used to track if there is an irregular amount of waste occurring.

26. Manure application by injection or incorporation on the same date it is land applied. Manure will be injected or incorporated on the same date.

I believe the statements here to be true and agree to adhere to the specifications.



BTB Cleona Pork 1+
Ben Dittmer, Manager

03/20/24
Date

Daily Checks

Feeders: _____ Checked and working appropriately
 _____ Checked and adjustments made

Waterers: _____ Checked and working appropriately
 _____ Checked and adjustments made

Monthly Checks

Date _____

Manure Depth _____

Drain Tile: Is water present? YES or NO
 Approximate depth? _____ inches

Pumpout lids: Condition? GOOD FAIR NEEDS ATTENTION

Semi-annual Check

The outer above ground perimeter of manure storage:

- _____ Normal as built
- _____ Normal aging no problems
- _____ Evidence of potential problems**
- _____ Manure leakage**

**If either of these situations should occur, an engineer will be contacted to inspect for potential structural integrity issues. If there is evidence of manure leakage, DNR will be contacted.

BTD Cleona Pork 1+

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.

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

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

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

- 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.
- The department will award points only for the single building, of the four listed above, closest to the proposed confinement feeding operation.
- "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.
- "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.
- A full listing of licensed and registered child care facilities is available at county offices of the department of human services.

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

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

- 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.
- "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.

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

- * Educational institution,
- * Religious institution, or
- * Commercial enterprise.

	Score	Air	Water	Community
250 feet to 500 feet	5	2.00		3.00

501 feet to 750 feet	10	4.00		6.00
751 feet to 1,000 feet	15	6.00		9.00
1,001 feet to 1,250 feet	20	8.00		12.00
1,251 feet to 1,500	25	10.00		15.00
1,501 feet or more	30	12.00		18.00

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

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

	Score	Air	Water	Community
250 feet to 500 feet	5		5.00	
501 feet to 750 feet	10		10.00	
751 feet to 1,000 feet	15		15.00	
1,001 feet to 1,250 feet	20		20.00	
1,251 feet to 1,500	25		25.00	
1,501 feet or more	30		30.00	

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

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

	Score	Air	Water	Community
300 feet or more	30	9.00		21.00

(A) "Thoroughfare" - a road, street, bridge, or highway open to the public and constructed or maintained by the state or a political subdivision.

(B) The 300-foot distance includes the 100-foot minimum setback plus additional 200 feet.

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

	Score	Air	Water	Community
500 feet or more	10	4.00		6.00

(A) All critical public areas as defined in 567--65.1(455B), are public use areas, and therefore subject to public use area minimum separation distances.

(B) Refer to the construction permit application package to determine the animal unit capacity (or animal weight capacity if an expansion) of the proposed confinement feeding operation. Then refer to Table 6 of 567--Chapter 65 to determine minimum required separation distances.

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

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

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

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

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

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

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

9. Distance between the proposed confinement structure and the nearest confinement facility that has a submitted department manure management plan.

	Score	Air	Water	Community
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
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-quality/feedlots-and-manure-storage/offset-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	Air	Water	Community
Emergency containment area	20		18.00	2.00

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

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

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

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

15. Utilization of landscaping around confinement structure.

	Score	Air	Water	Community
Utilization of Landscaping	20	10.00		10.00

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

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

	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:
- At least one confinement feeding operation structure must be constructed on and after May 21, 1998.
 - 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:
 - 1,250 feet for confinement feeding operations having a combined animal unit capacity of less than 1,000 animal units.
 - 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 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 in that subsection).

	Score	Air	Water	Community	
a.	Bulk dry manure is sold under Iowa 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
d.	Dry manure is completely burned to generate energy and no	30	9.00	9.00	12.00

	remaining manure is applied under the requirements of an approved department manure management plan				
	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
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- (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 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
Additional separation distance of 200 feet	5	3.25		1.75
Additional separation distance of 500 feet	10	6.50		3.50

- (A) The department will award points only for the single building, of the four listed above, closest to the proposed confinement feeding operation.
- (B) Minimum separation distance for land application of manure injected or incorporated on the same date as application: 0 feet.

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

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		3.00

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

33. Additional separation distance of 50 feet, above minimum requirements (0 or 200 feet, see below), for the land application of manure to the closest private drinking water well or public drinking water well - OR well is properly closed under supervision of county health officials.

	Score	Air	Water	Community
Additional separation distance of 50 feet or well is 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:
<http://www.iowadnr.gov/Recreation/CanoeingKayaking/StreamCare/ProtectedWaterAreas.aspx>.

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 Iowa department of workforce development median (45-2093)

-OR-

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

	Score	Air	Water	Community
Economic value to local community	10			10.00

The 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
Emergency action plan	5		2.50	2.50

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

41. Construction permit application contains a closure plan.

	Score	Air	Water	Community
Closure Plan	5		2.50	2.50

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

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	Water	Community
CNMP	10	3.00	3.00	4.00

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

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.

Score to pass

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

BTD Cleona Pork 1+

480 127.25 128 224.75

THE COUNTY AUDITOR'S SIGNATURE CERTIFIES THAT THIS RESOLUTION HAS BEEN FORMALLY APPROVED BY THE BOARD OF SUPERVISORS ON _____ DATE _____
SCOTT COUNTY AUDITOR _____

RESOLUTION
SCOTT COUNTY BOARD OF SUPERVISORS
April 25, 2024
ADOPTING A RECOMMENDATION TO THE IOWA DEPARTMENT OF NATURAL RESOURCES TO APPROVE THE CONSTRUCTION PERMIT APPLICATION OF BTD CLEONA PORK 1+ LLC, C/O BEN DITTMER FOR THE ESTABLISHMENT OF A NEW CONFINED ANIMAL FEEDING OPERATION IN SECTION 8 OF CLEONA TOWNSHIP

BE IT RESOLVED by the Scott County Board of Supervisors as follows:

- Section 1. BTD Cleona Pork 1+ LLC, c/o Ben Dittmer in the SE ¼ of the SE ¼ of Section 8, T79N, R1E (Cleona Township) has submitted an application to the Iowa Department of Natural Resources (IDNR) for a construction permit for the establishment of a new confined animal feeding operation at 24118 20th Avenue in unincorporated Scott County.
- Section 2. The Scott County Health Department and the Scott County Planning and Development Department have reviewed the construction permit application and the manure management plan and determined that both appear to be in compliance with the requirements of the Master Matrix, Iowa Code Section 459 and Iowa DNR rules.
- Section 3. The Scott County Board of Supervisors has determined that there are not any additional objects or locations not included in the application that are within the required separation distances, the soils and hydrology of the site appear to be suitable for the proposed expansion, and the applicant has adequate land for the application of manure originating from this confinement feeding operation available.
- Section 4. The Scott County Board of Supervisors published public notice of the receipt of said application, accepted written and electronic comments on the application and held a public hearing on April 25, 2024 during its regularly scheduled meeting to receive public comments on the application.
- Section 5. The Scott County Board of Supervisors will submit to the Iowa DNR the written reports it received from the Scott County Planning and Development and Health Departments on which its determination is based, and the documentation of publication of the required public notices. The Board will also submit all the written or electronic comments from the general public it received on this application.
- Section 6. The Scott County Board of Supervisors would recommend that the construction permit application of BTD Cleona Pork 1+ LLC, c/o Ben Dittmer be approved based on its compliance with the requirements of the Master Matrix, Iowa DNR rules and Iowa Code regulations for such applications.
- Section 7. This resolution shall take effect immediately.