

MINUTES
OF THE
ENVIRONMENTAL PROTECTION COMMISSION
MEETING
JUNE 20, 2017

DNR AIR QUALITY
7900 HICKMAN ROAD, WINDSOR HEIGHTS

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MEETING MINUTES

CALL TO ORDER

The meeting of the Environmental Protection Commission was called to order by Chairperson Mary Boote at 10:00 a.m. on June 20, 2017 at the DNR Air Quality offices in Windsor Heights.

COMMISSIONERS PRESENT

- Mary Boote, Chair
- Nancy Couser
- Howard Hill
- Chad Ingels, Vice Chair
- Ralph Lents
- Joe Riding
- Bob Sinclair

COMMISSIONERS ABSENT

- Vacant Seat – Commerce and Finance
- Vacant Seat – Manufacturing

ADOPTION OF AGENDA

Motion was made by Joe Riding to approve the agenda as presented. Seconded by Chad Ingels. Motion passes.

APPROVED AS PRESENTED

OATH OF OFFICE FOR NEW COMMISSIONER

Director Chuck Gipp swore in Howard Hill to the commission.

ELECTION OF OFFICERS

CHAIR

Ralph Lents nominated Chad Ingels to be Chair. Seconded by Joe Riding. No other nominations were provided. A vote was conducted and passed unanimously by voting members.

CHAD INGELS, CHAIR

VICE – CHAIR

Nancy Couser nominated Ralph Lents to be Vice- Chair. Seconded by Bob Sinclair. No other nominations were provided. A vote was conducted and passed unanimously by voting members.

RALPH LENTS, VICE-CHAIR

SECRETARY

Mary Boote nominated Joe Riding to be Secretary. Seconded by Ralph. No other nominations were provided. A vote was conducted and passed unanimously by voting members.

JOE RIDING, SECRETARY

APPROVAL OF MINUTES

Motion was made by Nancy Couser to approve the May 23, 2017 EPC meeting minutes. Seconded by Mary Boote. Motion passes.

APPROVED AS PRESENTED

MONTHLY REPORTS

- Bill Ehm acknowledged the June EPC meeting typically has a number of contract renewals on the agenda. The DNR’s work is often carried out by partners and many of them are present today. One of the larger partners is the University of Iowa State Hygienic Laboratory.
- Bill Ehm shared with the Commission that even though some of the contracts are for multiple years, each program projects out approximately 5 years for budgeting. If revenue is not received as anticipated, all of the contracts have provisions to reduce or terminate contractual obligations.

The following monthly report has been posted on the DNR website under the appropriate meeting month:
<http://www.iowadnr.gov/InsideDNR/BoardsCommissions.aspx>

1. Variance Report

INFORMATION

PUBLIC COMMENT

- No oral comments were presented.
- No written comments were submitted.

END OF PUBLIC COMMENT

DIRECTORS REMARKS

Director Chuck Gipp thanked Howard Hill for volunteering for the Commission. He also summarized the use of General Fund dollars at the DNR with almost half used for the Parks system. A portion of the General Fund is also used as the state’s match to receive federal funds in the air, land, and water environmental regulation programs. When the programs are not funded, they are still expected to perform their duties.

INFORMATION

CONTRACT AMENDMENTS WITH WAPSI VALLEY ARCHAEOLOGY AND THE UNIVERSITY OF IOWA, OFFICE OF STATE ARCHAEOLOGIST FOR ARCHAEOLOGICAL AND ARCHITECTURAL HISTORY SERVICES

Patti Cale-Finnegan presented for the Commission's approval the contract amendments for the SRF program.

Motion was made by Nancy Couser to approve the agenda item as presented. Seconded by Joe Riding. Motion passes.

APPROVED AS PRESENTED

CLEAN WATER AND DRINKING WATER STATE REVOLVING LOAN FUND – FY 2018 INTENDED USE PLANS

Patti Cale-Finnegan presented for the Commission's approval the SRF loan fund intended use plans for FY 2018. She summarized the financial planning and projections of the fund. Although federal funds add to the fund, if a reduction of federal funds occurred, the fund would continue to operate. She also discussed the approach for selecting and funding sponsored projects. Bill Ehm shared the President's budget did not lower the funding for clean water and drinking water SRF infrastructure funding.

Motion was made by Ralph Lents to approve the agenda item as presented. Seconded by Bob Sinclair. Motion passes.

APPROVED AS PRESENTED

CONTRACT WITH HY-VEE, INC. (CHARLES CITY) FOR 2017 PROJECT AWARE CATERING

Roger Bruner presented for the Commission's approval a contract for the Project Aware event catering service. He distributed a map of the historical and 2017 planned Project Aware river cleanup routes. He also shared that the registration for the 2017 event has closed because they have reached the maximum capacity of a little over 400 participants.

Motion was made by Bob Sinclair to approve the agenda item as presented. Seconded by Mary Boote. Motion passes.

APPROVED AS PRESENTED

CONTRACT WITH CONTRACT WITH STATE HYGIENIC LABORATORY AT THE UNIVERSITY OF IOWA FOR AMBIENT STREAM BIOLOGICAL MONITORING AND LABORATORY SERVICES

Roger Bruner presented for the Commission's approval a contract for the ambient stream biological monitoring and laboratory services. In response to a question, he also shared the approach for collecting samples for unplanned or emergency events which typically involves the Field Offices. In response to a second question, he explained that with neonicotinoids being a newer item to analyze, he shared the approach for selecting sites, collecting samples, and analyzing results. Roger explained that after engaging with stakeholders regarding water monitoring, a five year plan was developed. The plan involves collecting and analyzing data. Roger noted that this contract has been reduced significantly over the last few years. He noted that there will be a pause in collecting biological data while the existing data is analyzed.

Motion was made by Mary Boote to approve the agenda item as presented. Seconded by Ralph Lents. Motion passes.

APPROVED AS PRESENTED

CONTRACT WITH THE UNIVERSITY OF IOWA ON BEHALF OF THE STATE HYGIENIC LABORATORY FOR AMBIENT STREAM MONITORING SERVICES FY2018

Roger Bruner presented to the Commission a contract with the University of Iowa State Hygienic Laboratory. He shared that if a high level of toxic metal is found, his staff would ensure the protocols for sampling and testing were accurate to validate the results and if confirmed then would work with the Field Office to identify the source. If a stream is impaired for metals, a TMDL would be developed which would outline the regulation of discharges necessary to meet water quality standards. Some metals are created by industry while others are naturally occurring. This data will assist aquatic life and communities with their water treatment.

Motion was made by Mary Boote to approve the agenda item as presented. Seconded by Bob Sinclair. Motion passes.

APPROVED AS PRESENTED

CONTRACT WITH THE IOWA DEPARTMENT OF AGRICULTURE AND LAND STEWARDSHIP FOR THE PROTECT RATHBUN LAKE PROJECT

Steve Hopkins presented to the Commission a contract with IDALS.

Motion was made by Bob Sinclair to approve the agenda item as presented. Seconded by Nancy Couser. Motion passes.

APPROVED AS PRESENTED

CONTRACT WITH IOWA STATE UNIVERSITY EXTENSION AND OUTREACH FOR MANURE APPLICATOR CERTIFICATION TRAINING

Gene Tinker presented to the Commission a contract with Iowa State University Extension and Outreach. He shared that about 10% of the certifications were completed online. He indicated that some of the start-up problems and internet bandwidth issues deterred people from using the online system. DNR periodically performs onsite reviews of land application activities, in addition to responding to complaints and spills. Dr. Dan Anderson from ISU shared the approach for education during the trainings to ensure manure applications maximize and maintain nutrients.

Motion was made by Ralph Lents to approve the agenda item as presented. Seconded by Howard Hill. Motion passes.

APPROVED AS PRESENTED

CONTRACT AMENDMENT WITH THE UNIVERSITY OF IOWA FOR MAPPING REVIEW SERVICES

Kathryne Clark presented to the Commission a contract with the University of Iowa. She distributed a map of the state of Iowa indicating the status of reviews of best management practices for each HUC 12 watershed. This contract is for the continuation of this mapping review. There are options being considered for exploring additional mapping from the 80's and 2016. The project is reviewing every acre in Iowa which is time consuming but provides accurate information. Depending on many factors, the current approach of reviewing every acre may need to be changed to a sample area approach. The data being generated could be used by agencies to engage with landowners on potential best practices.

Motion was made by Mary Boote to approve the agenda item as presented. Seconded by Ralph Lents. Motion passes.

APPROVED AS PRESENTED

CONTRACT AMENDMENT #2 WITH THE UNIVERSITY OF IOWA ON BEHALF OF THE STATE HYGIENIC LABORATORY (SHL) FOR LABORATORY SERVICES PROVIDE TO THE IOWA DNR LAND QUALITY BUREAU

Matt Culp presented to the Commission a contract amendment with the University of Iowa. Ed Tormey summarized that the Commission by rule reviews any amendment greater than 10% of the original contract value or exceeds \$25,000, whichever figure is greater.

Motion was made by Bob Sinclair to approve the agenda item as presented. Seconded by Joe Riding. Motion passes.

APPROVED AS PRESENTED

CONTRACT WITH THE UNIVERSITY OF IOWA ON BEHALF OF THE STATE HYGIENIC LABORATORY (SHL) FOR LABORATORY SERVICES PROVIDE TO THE IOWA DNR LAND QUALITY BUREAU

Matt Culp presented to the Commission a contract with the University of Iowa. He shared the frequency that the DNR and SHL meets to plan for upcoming events and discuss trends and price adjustments.

Motion was made by Nancy Couser to approve the agenda item as presented. Seconded by Mary Boote. Motion passes.

APPROVED AS PRESENTED

NOTICE OF INTENDED ACTION – CHAPTER 61 – WATER QUALITY STANDARDS (UPDATES TO WASTELOAD ALLOCATION PROCEDURE AND *E. COLI* CRITERIA)

Matt Dvorak presented to the Commission a notice of intended action for water quality standards rules. He shared the EPA's recommendation for the use of the proposed methodology for long term assessment of a water body. A single sample would not immediately impair a water body. A minimum of 5 samples over a period of time is the protocol.

Motion was made by Joe Riding to approve the agenda item as presented. Seconded by Ralph Lents. Motion passes.

APPROVED AS PRESENTED

2016 DIESEL EMISSIONS REDUCTION GRANT PROGRAM – ROUND 2 RECOMMENDATIONS

Jim McGraw presented to the Commission recommendations for grant funding. He shared that those successful awardees replacing buses, the old buses are required to be scrapped and no longer used. The funding is not to increase the fleet but rather to get buses off the road which have a high emission rate. Although there are probably more impactful projects, the Department struggles to find qualified applicants who are interested in the program. Bill Ehm shared that in the future, DOT will be administering the program.

Motion was made by Mary Boote to approve the agenda item as presented. Seconded by Bob Sinclair. Motion passes.

APPROVED AS PRESENTED

CONTRACT WITH WINDSOR SOLUTIONS, INC. FOR STATE & LOCAL EMISSIONS INVENTORY SYSTEM (SLEIS) LICENSE AGREEMENT

Nick Page presented to the Commission a contract with Windsor Solutions, Inc. He mentioned the approach for sharing the cost with 13 other states who are also benefiting from the shared product. Even with so many entities involved, the relationship and product received has been extremely satisfactory.

Motion was made by Joe Riding to approve the agenda item as presented. Seconded by Nancy Couser. Motion passes.

APPROVED AS PRESENTED

Joe Riding excused himself from the remainder of the meeting.

2018 CONTRACT WITH LINN COUNTY AIR QUALITY DIVISION: AIR POLLUTION CONTROL IN LINN COUNTY

Christine Paulson presented to the Commission a contract with Linn County.

Motion was made by Mary Boote to approve the agenda item as presented. Seconded by Ralph Lents. Motion passes.

APPROVED AS PRESENTED

2018 CONTRACT WITH POLK COUNTY AIR QUALITY DIVISION: AIR POLLUTION CONTROL IN POLK County

Christine Paulson presented to the Commission a contract with Polk County. She distributed a new agenda brief which listed the Title V fees as a portion of the funding. The information was in the contract but was accidentally excluded from the brief.

Motion was made by Ralph Lents to approve the agenda item as presented. Seconded by Bob Sinclair. Motion passes.

APPROVED AS PRESENTED

2018 CONTRACT UNIVERSITY OF NORTHERN IOWA – IOWA AIR EMISSIONS ASSISTANCE PROGRAM (IAEAP): SMALL BUSINESS ASSISTANCE PROGRAM

Christine Paulson presented to the Commission a contract with the University of Northern Iowa. Jennifer Wittenburg, UNI IAEAP Program Manager, shared with the Commission the number of assistance activities provided to businesses in fiscal year 2017 along with outreach events and conferences. With the reduction in funding, IAEAP will be adjusting their scope of assistance, possibly having longer turnaround time, and looking at different ways of supporting businesses such as no longer printing materials but having them available online.

Motion was made by Bob Sinclair to approve the agenda item as presented. Seconded by Nancy Couser. Motion passes.

APPROVED AS PRESENTED

LABORATORY CERTIFICATION CONTRACT AMENDMENT

Jon Tack presented to the Commission a contract with the University of Iowa State Hygienic Lab. He also shared the program is a national program and certification is for a period of 2 years.

Motion was made by Howard Hill to approve the agenda item as presented. Seconded by Ralph Lents. Motion passes.

APPROVED AS PRESENTED

Jon Tack provided clarification to the Commission if there was any confusion with the University of Iowa contract for mapping services. The information collected could be used in many ways but is not intended for identifying poor land practice and targeting landowners for enforcement. Identifying and collaborating with landowners on potential best practices and cost share programs would be the Department's approach.

RURAL HUB AND SPOKE RECYCLING STUDY REPORT

Tom Anderson summarized the Solid Waste Alternatives Program and the need for a study to be conducted on recycling opportunities in Iowa, especially in rural areas. SCS Engineering was selected from the contract bidding process. Michelle Leonard, Vice President of SCS Engineering, presented to the Commission the results of their study. In the presentation she summarized the project purpose and approach, a database created, and the recommendations provided to the DNR.

INFORMATION

CONTRACT WITH UNIVERSITY OF IOWA ON BEHALF OF THE STATE HYGIENIC LABORATORY FOR 2018 SHL SERVICES IN SUPPORT OF THE DNR AIR QUALITY BUREAU

Sean Fitzsimmons presented to the Commission a contract with the University of Iowa State Hygienic Lab. He also shared the process for working with EPA, public comments, and approvals to remove monitoring stations/requirements due to decreased funding.

Motion was made by Bob Sinclair to approve the agenda item as presented. Seconded by Mary Boote. Motion passes.

APPROVED AS PRESENTED

Lunch Break

DEMAND FOR HEARING – HUMBOLDT COUNTY

Kelli Book, DNR Attorney, summarized for the Commission the events which occurred in early 2017 for the Wacousta Finisher Farm site expansion. Humboldt County’s review of the Master Matrix resulted in not enough points to approve the application. As required by law, when a county’s review of the Master Matrix does not pass, the DNR provides an independent evaluation of the Master Matrix. Cindy Garza, DNR Engineer, provided the independent evaluation of the Master Matrix and determined there were adequate points received to issue a draft construction permit. Humboldt County exercised its right to request a demand for hearing before the EPC.

Melody Larson, Humboldt County Zoning, distributed two plat maps to the Commissioners. She expressed concerns with 244 acres being claimed for manure application by two facilities (Wacousta and Elmer fields highlighted in green). The County is not opposed to expansion but they are frustrated with Manure Management Plans (MMPs) not being recorded at the court house. It is challenging to keep track of manure being applied. Additionally, the county asked for 6 copies of the application and site surveys to be done in advance and both requests have not been fulfilled.

Louis Fallesen, Humboldt County Board of Adjustment, shared that producers receive an informational sheet on how to submit an application and items to include like the site survey. All the information and pieces of the application assist the county with making a decision. He would like to see MMPs recorded because he knows there is a shell game going on with MMPs and they are double applying manure. He provided an example of a different facility where the new confinement was staked out and when it was built it, it was moved closer to a residence and a waterway. Humboldt County is trying to protect the water, county, people, and community within the regulations of the DNR. He is concerned the same MMP is being used for two different sites.

Melody Larson reminded the Commission the County does not have a problem with AFOs coming into the county but just want it done right. She uses a plat map to color code the application locations and there are two areas that are doubled up.

Amy Johnson, Brown Winick Attorney representing Brookglade Farms, distributed a map and the MMPs for Wacousta and Elmer farms. She agrees with DNR’s position of the facts and laws and believes Humboldt County misstates the facts and law. Humboldt County’s statement that fields are

being shared is incorrect. Brookglade Farms owns 2 facilities in the county, Wacousta and Elmer. There are no shared fields for the 2 sites. On the map labeled exhibit A, green outlines are the Wacousta fields and blue outlines are the Elmer fields, of which there are no shared fields.

Amy Johnson continued that Humboldt County stated the MMP for the Wacousta facility was the same as the Elmer facility. The statement is incorrect. Exhibits B and C are the main pages of the MMPs from each facility and the information on the forms is different between the two.

Amy Johnson continued that Humboldt County stated Brookglade Farms did not comply with the County’s application submission process of providing 6 copies and conducting a site survey. It is long settled Iowa law that county law is void and unenforceable as determined by the Worth County case. Iowa law clearly intends for livestock regulation to rest at the state level. Brookglade Farms is not required to obey the county policies. Brookglade Farms does have an obligation to comply with state requirements which they have done. She asked the EPC to uphold the DNR’s decision to issue a permit. She also asked the Commission to send a clear message to counties who fail to follow the law by removing Humboldt County’s ability to score the Master Matrix for the remainder of the year.

Humboldt County explained how they determined fields were being doubled up based on the original MMP but if there are newer versions of the MMP, they do not have it. They also explained that without the site survey completed with the application, how could they determine if the separation distances were accurate? Pre-site information only has a 40 acre area without an exact location.

The county recalled during a pre-meeting, Brookglade Farms promised to provide an accurate site survey with the application. Keith Kratchmer, representing Brookglade Farms, was not at the pre-meeting but his colleague does not remember a promise to perform a site survey in advance. Site surveys are expensive and generally completed after an application is approved.

Amy Johnson asked the Commission to focus on the Wacousta expansion site and not historical events from other facilities Humboldt County references. Wacousta met all the requirements for their application and separation distances.

Cindy Garza, DNR Engineer, shared with the Commission the list of items required for a construction application. The application is first submitted to the County to obtain a letter of receipt and then the same materials are submitted to the DNR. She also reminded the Commission that the MMP must be updated and maintained on site, but it is not required for producers to send updated MMPs to the county or DNR.

Kelli Book shared with the Commission approaches for Master Matrix enforcement through the DNR and not the county.

*Motion was made by Mary Boote to approve the construction permit as presented. Seconded by Bob Sinclair.
Chad Ingels-yea, Joe Riding-absent, Bob Sinclair-yea, Ralph Lents-yea, Howard Hill-recused, Nancy Couser-yea, and Mary Boote-yea. Motion passes.*

PERMIT ISSUED

GENERAL DISCUSSION

- The Commission expressed concern for the August tour and meeting during a busy time for everyone with the Iowa State Fair. Jerah Sheets will inquire with Commissioners about date changes.
- Jerah Sheets provided an update to the electronic Manure Management Plan submission process improvement event. About 80% of the online system is built and testing with stakeholders will begin this summer. They are still anticipating to roll out the electronic submission option by the end of the year.
- Commissioners discussed options for providing educational materials to counties regarding the Master Matrix. They are a key part of the process but with limited applications for review and turnover of elected officials, this creates challenges for counties.

Chairperson Ingels adjourned the Environmental Protection Commission meeting at 1:50 p.m., Tuesday, June 20, 2017.

**Environmental Protection Commission
Iowa Department of Natural Resources**

ITEM



DECISION

TOPIC

2018 Contract with Polk County Air Quality Division: Air Pollution Control in Polk County

Recommendations:

Commission approval is requested for a one year-service contract with the county government of Polk County; Des Moines, Iowa. The contract will begin on July 1, 2017 and terminate on June 30, 2018. The total amount of this contract shall not exceed \$898,395. This contract is an Iowa Code Chapter 28E contract.

Funding Source:

The statutory authority for the DNR to enter into this contract is Iowa Code §455B.145. This contract will be funded by cost reimbursable payments from Title V application fees (not to exceed \$115,000), Title V emissions fees (not to exceed \$593,069), Clean Air Act Amendments (CAAA) §105 federal grant dollars (not to exceed \$169,909), and CAAA §103 federal grant dollars (not to exceed \$20,000). Polk County has a funding commitment of \$361,486.

Background:

Under Iowa Code §455B.134 (11) and §455B.144 local political subdivisions are able to address air quality problems in their jurisdictions and can establish their own rules. Polk County had a local program, including ordinances and enforcement, in place prior to the DNR's delegation from EPA for an air program.

As specified in Iowa Code §455B.145 and 567 Iowa Administrative Code (IAC) Chapter 27, the Polk County Air Quality Division meets the conditions necessary to retain a local program. As established under the requirements of this contract, the Polk County Air Quality Division is responsible for the ongoing implementation of an air program.

Purpose:

The parties propose to enter into this contract to specify the extent and manner of cooperation between the two agencies in conducting programs for the abatement, control, and prevention of air pollution within Polk County. Particular emphasis is placed on the collection and assessment of information regarding air quality, the permitting of sources of air emissions, the enforcement of emission limits, and the attainment and maintenance of ambient air quality standards.

Contractor Selection Process:

The DNR is allowed to contract with Polk County without using a competitive selection process pursuant to state law, including 11 IAC 118.4.

Contract History:

Records indicate that DNR has been contracting with Polk County for implementation of an air program within Polk County since at least 1992. The contract is renegotiated annually with Polk County to provide services that allow for the ongoing implementation of an air program. In comparison to last year (SFY 2017), the contract currently being requested for approval has the same scope of work.

In 2016, 567 Iowa Administrative Code Chapter 30 established fee rules and required the establishment of a fee structure by the DNR. The new fee structure requirements coupled with a projected decrease in Title V emissions fee revenue due to decreases in emissions resulted in reduced DNR funding for this contract by \$102,909 (Title V emissions fees). As in 2017, applicants of Title V permits will be billed by the DNR at the rate established in the DNR fee schedule and Polk County will then be reimbursed by the DNR for their work on the project. Polk County has implemented their own fee structure for major and minor source construction permit applications; these fees are used by Polk County to assist with their required funding commitment.

Christine Paulson
Environmental Specialist Senior
Air Quality Bureau – Environmental Services Division
June 20, 2017

Attachment(s): Statement of Work & Budget for Contract 18ESDAQBCPAUL-0002



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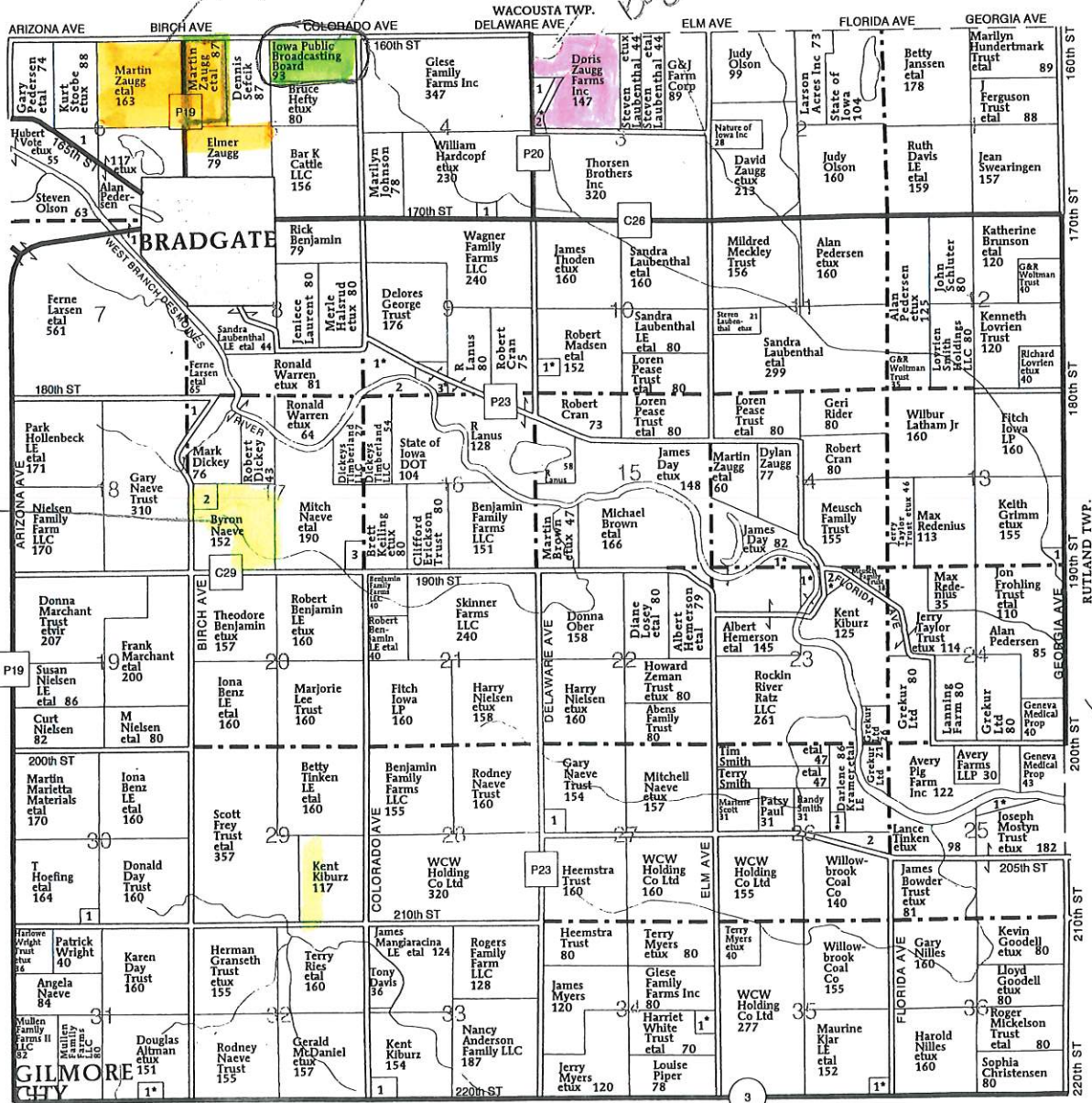
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T-92-N

AVERY PLAT

R-30-W



Sonicview Farms

AVERY TOWNSHIP

- SECTION 3**
1. Nature of Iowa Inc 22
2. Zaugg, Martin 12
- SECTION 4**
1. O'Donnell, Dennis 5
- SECTION 6**
1. Cran, Robert 12
- SECTION 7**
1. State of Iowa DOT 23

- SECTION 9**
1. State of Iowa 15
2. Lanus, Robert 10
- SECTION 10**
1. Laubenthal, Adam 8
- SECTION 13**
1. Collins, Janice 5
- SECTION 14**
1. Hemerson, Albert 7

- SECTION 17**
1. Naeve Trust, Gary 10
2. Naeve, Mitch 7
3. Dickey, Robert 11
- SECTION 18**
1. Naeve, Mark 8
- SECTION 23**
1. Brown, Michael 10
2. Cleveland, Timothy 12

3. Meusch Family Trust 18
- SECTION 25**
1. Caryl, Foster 31
- SECTION 26**
1. Kramer, David 7
2. Goodell, Dennis 19
- SECTION 27**
1. D&S Swine LLC 6

- SECTION 30**
1. Meier, Brad 5
- SECTION 31**
1. Naeve, Russell 9
- SECTION 33**
1. Davis, Glenn 6
- SECTION 34**
1. Carpenter, Micheal 10
- SECTION 35**
1. McKimney, Travis 8



VITAMIN B2 (Riboflavin)

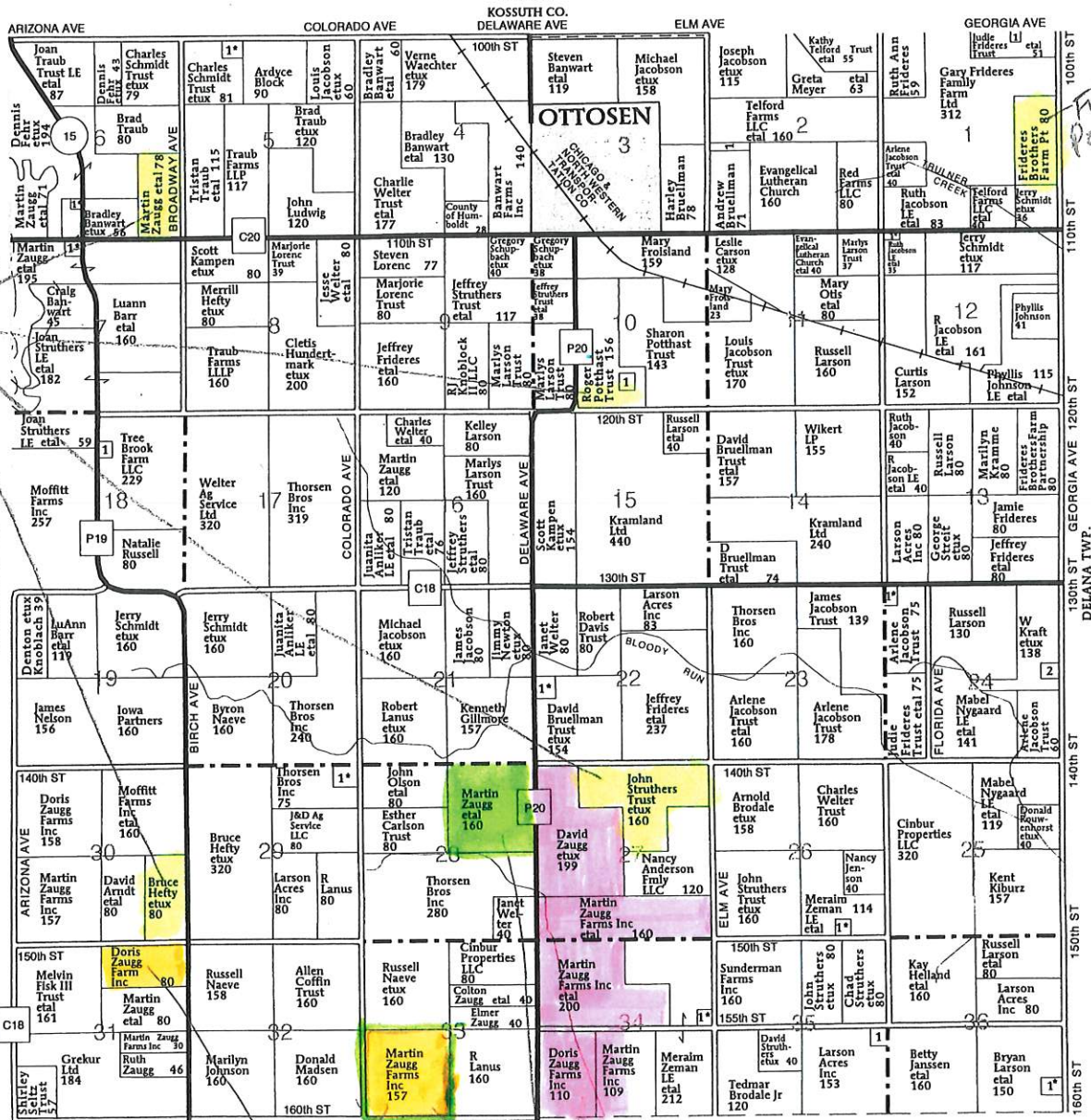
Regulates hormone balance, healthy eyes, skin and promotes healthy nervous system. It can be found in yogurt, milk, meats, leafy vegetables and whole grains.



T-93-N

WACOUSTA PLAT

R-30-W



- WACOUSTA TOWNSHIP**
- SECTION 1**
 - 1. Bruellman, Andrew 8
 - SECTION 2**
 - 1. Terwilliger, Douglas 6
 - SECTION 5**
 - 1. Schmidt, Paul 10
 - SECTION 6**
 - 1. Bennett, Thomas 5
 - SECTION 7**

- SECTION 10**
- 1. Tailgate Farms LLC 12
- SECTION 12**
- 1. Jacobson, Paul 5
- SECTION 18**
- 1. Haug, Calvin 7
- SECTION 22**
- 1. Brodale, Arnold 6
- SECTION 24**
- 1. Streit, George 6

- SECTION 26**
- 1. Zeman, Norman 6
- SECTION 29**
- 1. Weler Jr, Dean 5
- SECTION 34**
- 1. Zeman, Richard 6
- SECTION 35**
- 1. Pate, Richard 5
- SECTION 36**
- 1. Satern, Darrell 10

Frideres Park LP

White Swan Finisher

Bay Finisher

Wacousta Finisher

Wacousta Finisher Farm Fields & Surrounding Farms

EXHIBIT A

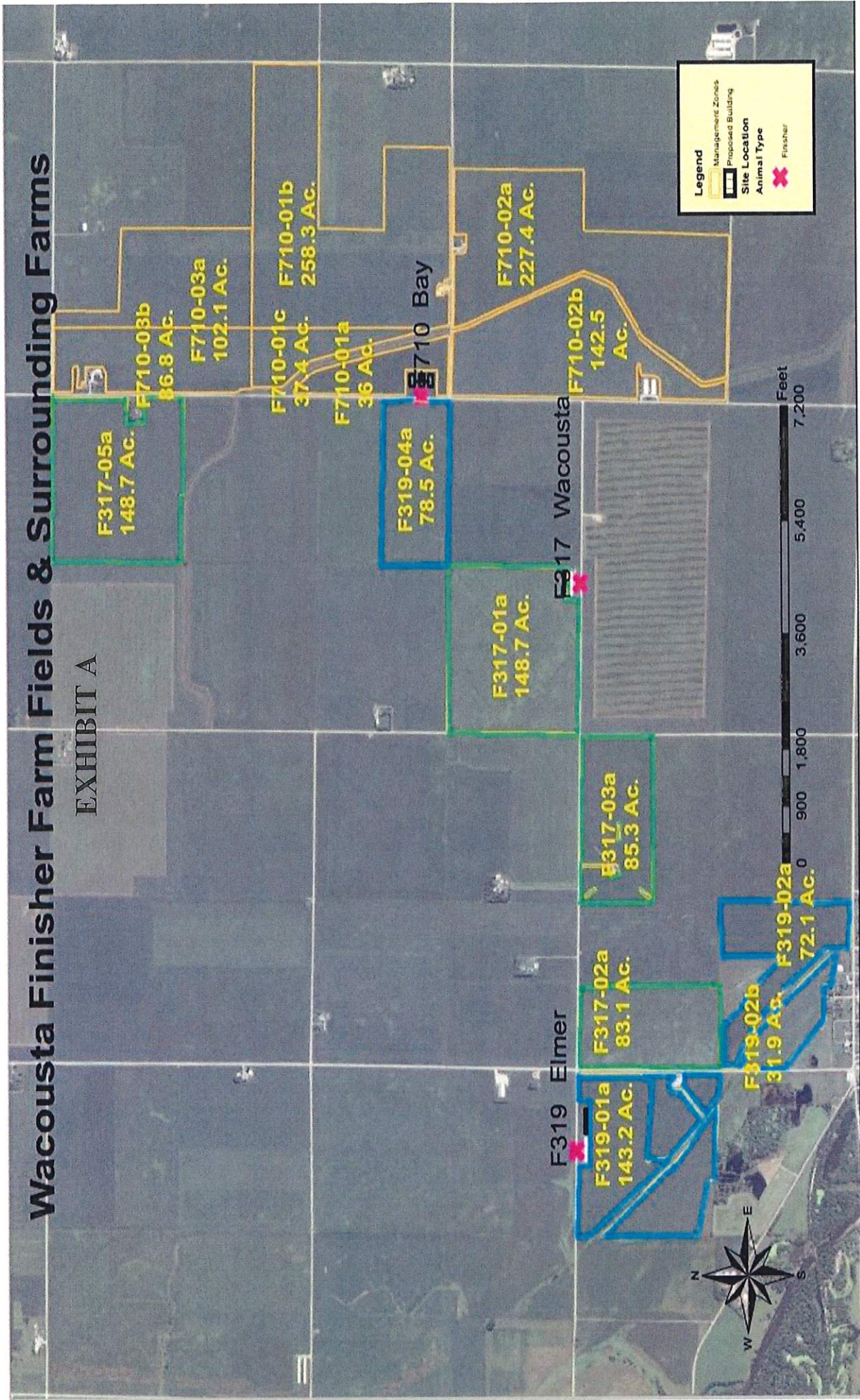


EXHIBIT B

Manure Management Plan Form Operation Information

Instructions: Complete this form for your animal feeding operation. Endnotes are provided on pages 4-6.

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 nutrient management plan 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.

Brookglade Farms, LLC by: Keith Kratchmer Keith Kratchmer Date: 2/23/2017
(Signature) (Print Name)

Name of operation: Wacousta, Finisher Farm Facility ID No. 63826

Location of the operation: 1247 160th Street
* An example of a legal description is available on page 3 of the Introduction and Instructions. (911 Address)

Bradgate IA 50520
(Town) (State) (Zip Code)

SE 1/4 1/4 of the SW 1/4 1/4 of Sec 33 T T93N R R30W Wacousta Humboldt
(1/4 1/4) (1/4) (Section) (Tier) (Range) (Township Name) (County)

Owner and Contacts of the animal feeding operation:

Owner Brookglade Farms, LLC Phone 641-648-5067

Address 824 Brooks Road, Iowa Falls, IA 50126

Email (optional) _____ Cell phone (optional) _____

Contact person (if different than owner) Keith Kratchmer Phone 641-648-4479

Address 824 Brooks Road, Iowa Falls, IA 50126

Email (optional) _____ Cell phone (optional) _____

Contract Company _____ Phone _____

Address _____

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

Construction and Expansion Dates: June 1, 2005 date of initial construction
 _____ and date(s) of all expansion(s)

Table 1. Information about livestock production and nutrient management system

1 Animal Type/Production phase ^a	2 Max Number of Animals Confined (head)	3 Manure Storage Structure ^b	4		6 gal/space/day or ton/space/yr ^d	7 Days/yr Facility Occupied	8 Annual Manure Production ^e (gal or tons)
			N ^c	P ₂ O ₅ ^c			
			lb/1000 gal	lb/ton			
Wean/Finish	5,000	Indoor Formed	47.00	39.00	0.70	365	1,277,500

Estimate of Annual Animal Production^f: 10,000 animals/year Total Gallons 1,277,500
 Total Tons _____

Source of Nutrient Content Data (columns 4, 5). standard tables, analysis of manure samples, other:

The nutrient concentrations are based on Iowa Select Farms standards, which have been approved by the IDNR. Actual values will be used for _____

EXHIBIT B

Manure Management Plan Form

Determining Maximum Allowable Manure Application Rates

Page 2

Instructions: Complete a worksheet for each unique combination of the following factors (crop rotation, optimum crop yield, manure nutrient concentration, remaining crop N need, method of application) that occurs at this operation. Endnotes are given on pages 4-6.

Management Identification (Mgt ID)^g: Corn-Corn-Beans
(Identify this application scenario by letter, refer to endnote g)

Method used to determine optimum yield^h: County Average + 10% Timing of Application: Spring, Fall(Summer)

Method of Applicationⁱ: Direct Injection with Tank Application Loss Factor^j: 0.9800

If spray irrigation is used, identify method^k: _____

Table 2. Manure Nutrient Concentration

Manure Nutrient Content (lbs/1000gal or lbs/ton)				
Manure Storage Structure(s) ^k	Indoor Formed			
Total N	47.00	P ₂ O ₅		39.00
% TN available 1st year ^l	100	% 2 nd year	% 3 rd year	
Available N 1 st year ^m	46.1	2 nd year ⁿ	3 rd year ^o	

Table 3. Crop Usage Rates^p

(lbs/bu or lbs/ton)	N	P ₂ O ₅
Corn	1.20	0.32
Soybean	3.8	0.72
Alfalfa	50	13

* 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) ^q		Corn	Beans	Corn	Corn
2	Optimum Crop Yield ^h	bu or ton/acre	188.9	53.2	188.9	188.9
3	P ₂ O ₅ removed with crop by harvest ^r	lb/acre	60.4	38.3	60.4	60.4
4	Crop N utilization ^s	lb/acre	226.7	202.2	226.7	226.7
5a	Legume N credit ^t	lb/acre	0.0	0.0	50.0	0.0
5b	Commercial N planned ^u	lb/acre	0	0	0	0
5c	Manure N carryover credit ^v	lb/acre	0	0	0	0
6	Remaining crop N need ^w	lb/acre	226.7	100.0	176.7	226.7
7	Manure rate to supply remaining N ^x	gal/acre or ton/acre	4,917.1	2,169.2	3,832.5	4,917.1
8	P ₂ O ₅ applied with N-based rate ^y	lb/acre	191.8	84.6	149.5	191.8

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

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

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

13	Planned Manure Application Rate ^{dd}	gal/acre or ton/acre	4,917.1	2,169.2	3,832.5	4,917.1
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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.

(>5-10) Until December 31, 2008, P-based manure management while adopting practices to reduce P index to 5 or below.

(>10) No manure application until practices are adopted to reduce P index to 5 or below.

EXHIBIT B

Manure Management Plan Form
Year by Year Nutrient Management Plan Summary

Instructions: Complete this form for each of the next five growing seasons, to demonstrate sufficient land base to apply manure over multiple crop years. If this page is identical for multiple years (e.g. every other year), submit only once for the identical years, and indicate which years the form represents. Endnotes are given on pages 4-6.

Crop Year(s): 2017

1	2	3	4	5	6	7	8	9	10	11
Field Designation ^{ee}	Field Location Township Name _____ 1/4 Sec _____ T _____ R _____ County Name _____	Mgt ID ^f	Planned Crop	Acres receiving manure ^{gg}	Own, rent, or agreement (include length of agreement)	P Index Value ^h	HEL (Yes or No) ⁱⁱ	Planned Application ^{kk} Gal or ton/acre	Gal or ton/field	Correct Soil Test for P ^{ll} (Yes or No)
F317-01a	SW 1/4, 33, T93N-R30W, Humboldt	CCB	Corn	150.7	Easement	0.11	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	4,917.1	741,012	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
F317-02a	W 1/4 of NW 1/4, 5, T92N-R30W, Humboldt	CCB	Corn	83.1	Easement	0.11	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	4,917.1	408,614	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
F317-03a	N 1/4 of NE 1/4, 5, T92N-R30W, Humboldt	CCB	Corn	85.3	Easement	0.10	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	3,832.5	326,915	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
F317-05a	NE 1/4, 28, T92N-R30W, Humboldt	CCB	Corn	148.7	Easement	0.14	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	3,832.5	569,698	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
							<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
							<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
							<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
							<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
							<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
							<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
							<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
							<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
							<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
							<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
							<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Total acres available for manure application				467.8						
Total Gallons that could be applied								2,046,440		
Total Tons that could be applied										

EXHIBIT C

Manure Management Plan Form Operation Information

Instructions: Complete this form for your animal feeding operation. Endnotes are provided on pages 4-6.

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 nutrient management plan 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.

Brookglade Farms, LLC by Del Johnston (Signature) Del Johnston (Print Name) Date: 18-August-2016

Name of operation: Elmer, Finisher Farm Facility ID No. 63827

Location of the operation: 1076 160th Street (911 Address)

* An example of a legal description is available on page 3 of the Introduction and Instructions.

Bradgate (Town) IA (State) 50520 (Zip Code)
N $\frac{1}{2}$ 1/4 of the NE $\frac{1}{4}$ 6/4 of Sec 6 T T92N R R30W Avery Humboldt
 (1/4 1/4) (1/4) (Section) (Tier) (Range) (Township Name) (County)

Owner and Contacts of the animal feeding operation:

Owner Brookglade Farms, LLC Phone 641-648-5067

Address 824 Brooks Road, Iowa Falls, IA 50126

Email (optional) _____ Cell phone (optional) _____

Contact person (if different than owner) Keith Kratchmer Phone 641-648-4479

Address 824 Brooks Road, Iowa Falls, IA 50126

Email (optional) _____ Cell phone (optional) _____

Contract Company _____ Phone _____

Address _____

This nutrient management plan is for: (check one)

- existing operation, not expanding
- existing operation, expanding
- existing operation, new owner
- new operation

Construction and Expansion Dates: June 1, 2005 date of initial construction
 _____ and date(s) of all expansion(s)

Table 1. Information about livestock production and nutrient management system

1	2	3	4	5	6	7	8	
Animal Type/Production phase ^a	Max Number of Animals Confined (head)	Manure Storage Structure ^b	N ^c	P ₂ O ₅ ^c	gal/space/day or ton/space/yr ^d	Days/yr Facility Occupied	Annual Manure Production ^e (gal or tons)	
			lb/1000 gal	lb/ton				
Wean/Finish	5,000	Indoor Formed	47.00	39.00	0.70	365	1,277,500	
Total Gallons							1,277,500	
Estimate of Annual Animal Production ^f : <u>10,000</u> animals/year							Total Tons	

Source of Nutrient Content Data (columns 4, 5): standard tables, analysis of manure samples, other:

The nutrient concentrations are based on Iowa Select Farms standards, which have been approved by the IDNR. Actual values will be used for _____

EXHIBIT C

Manure Management Plan Form

Determining Maximum Allowable Manure Application Rates

Page 2

Instructions: Complete a worksheet for each unique combination of the following factors (crop rotation optimum crop yield, manure nutrient concentration, remaining crop N need, method of application) that occurs at this operation. Endnotes are given on pages 4-6.

Management Identification (Mgt ID)^g: _____

Corn-Corn-Corn-Corn-Beans
(Identify this application scenario by letter, refer to endnote g)

Method used to determine optimum yield^h: County Average + 10% Timing of Application: Spring, Fall(Summer)

Method of Applicationⁱ: Direct Injection with Tank Application Loss Factor^j: 0.9800

If spray irrigation is used, identify method^l: _____

Table 2. Manure Nutrient Concentration

Manure Nutrient Content (lbs/1000gal or lbs/ton)				
Manure Storage Structure(s) ^k		Indoor Formed		
Total N	47.00	P ₂ O ₅	39.00	
% TN available 1st year ^l	100	% 2 nd year	% 3 rd year	
Available N 1 st year ^m	46.1	2 nd year ⁿ	3 rd year ^o	

Table 3. Crop Usage Rates^p

(lbs/bu or lbs/ton)	N	P ₂ O ₅
Corn	1.20	0.32
Soybean	3.8	0.72
Alfalfa	50	13

* 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) ^q		Corn	Beans	Corn	Corn
2	Optimum Crop Yield ^b	bu or ton/acre	188.9	53.2	188.9	188.9
3	P ₂ O ₅ removed with crop by harvest ^r	lb/acre	60.4	38.3	60.4	60.4
4	Crop N utilization ^s	lb/acre	226.7	202.2	226.7	226.7
5a	Legume N credit ^t	lb/acre	0.0	0.0	50.0	0.0
5b	Commercial N planned ^u	lb/acre	0	0	0	0
5c	Manure N carryover credit ^v	lb/acre	0	0	0	0
6	Remaining crop N need ^w	lb/acre	226.7	100.0	176.7	226.7
7	Manure rate to supply remaining N ^x	gal/acre or ton/acre	4,917.1	2,169.2	3,832.5	4,917.1
8	P ₂ O ₅ applied with N-based rate ^y	lb/acre	191.8	84.6	149.5	191.8

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

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

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

13	Planned Manure Application Rate ^{dd}	gal/acre or ton/acre	4,917.1	2,169.2	3,832.5	4,917.1
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When applicable, manure application rates must be based on the P index value as follows
(0-2) N-based manure management.

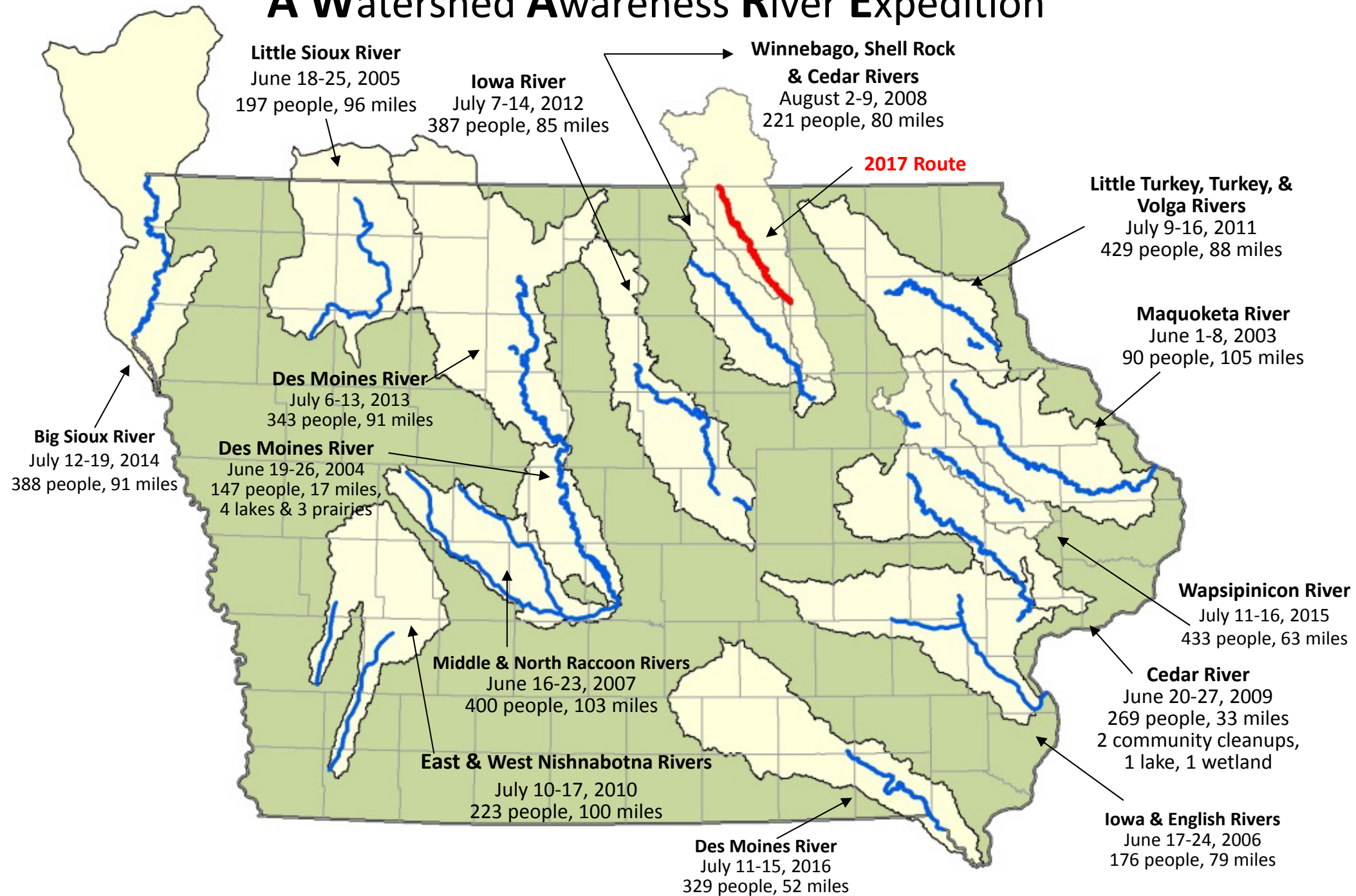
(>2-5) N-based manure management but P application rate cannot exceed two times the P removal rate of the crop schedule.

(>5-10) Until December 31, 2008, P-based manure management while adopting practices to reduce P index to 5 or below

(>10) No manure application until practices are adopted to reduce P index to 5 or below.

Project AWARE

A Watershed Awareness River Expedition



DNR#1

Please staple check here



Iowa Department of Natural Resources

Construction Permit Application Form Confinement Feeding Operations

INSTRUCTIONS:

Prior to constructing, installing, modifying or expanding a confinement feeding operation structure¹, answer questions 1-8 on Item 3, Section A (page 2), to determine if a construction permit is required. To calculate the animal unit capacity (AUC) of the operation, complete Table 1 (page 4.) If a construction permit is required, complete the rest of the form, have the applicant(s) sign it on pages 5 and 6. Mail to the DNR (see address on page 5) this application form, documents and fees requested in Checklist No. 1 or 2 (pages 10-15). See item 5 (page 5), to determine which checklist to use.

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

THIS APPLICATION IS FOR:

- 1. A new confinement feeding operation
- 2. An existing confinement feeding operation (answer all of the following questions):
 - a) Facility ID No. (5 digit number): 63826
 - b) Date when the operation was first constructed: 5/12/2005
 - c) Date when the last construction, expansion or modification was completed: 5/12/2005



(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: Wacousta Finisher Farm

Location:	<u>SE</u>	<u>SW</u>	<u>33</u>	<u>T93N-R30W</u>	<u>Wacousta</u>	<u>Humboldt</u>
	<small>(1/4 1/4)</small>	<small>(1/4)</small>	<small>(Section)</small>	<small>(Tier & Range)</small>	<small>(Name of Township)</small>	<small>(County)</small>

B) Applicant information:

Name: Brookglade Farms, LLC Title: Owner

Address: 824 Brooks Road, Iowa Falls, IA 50126

Telephone: 641-648-5067 Fax: _____ Email: _____

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

Name: Keith Kratchmer Title: Environmental Compliance Officer

Address: 824 Brooks Road Ste. B, Iowa Falls, IA 50126

Telephone: 641-648-4479 Fax: _____ Email: kkkratchmer@iowaselect.com

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

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

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

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

ITEM 2 – SITING INFORMATION:

- A) Karst Determination: Go to DNR AFO Siting Atlas at <http://programs.iowadnr.gov/maps/afo/>. Agree to the disclaimer, then search for your site by either scrolling into your location or entering an address or legal description in the bottom search bar. Left click on the location of your proposed structure. Make sure the karst layer box is checked on the map layers. If you cannot access the map, or if you have questions about this issue, contact the AFO Engineer at (712) 262-4177. Check one of the following:
- The site is not in karst or potential karst. Print and enclose the map with the name and location of the site clearly marked.
 - The site is in karst. The upgraded concrete standards of 567 IAC 65.15(14)"c" must be used. Refer to "Applicant's submittal checklist" on page 10 for karst documentation.
 - The site is within 1,000 feet of a known sinkhole, Secondary Containment Barrier is required in accordance with 567 IAC 65.15(17).
- B) Alluvial Soils Determination: Go to the AFO Siting Atlas as described above. Make sure the alluvial layer box is checked on the map legend. If you cannot access the map, or if you have questions about this issue, contact DNR Flood Plain at (866) 849-0321. Check one of the following:
- The site is not in alluvial soils. Print and enclose the map with the name and location of the site clearly marked.
 - The site is in alluvial soils. You will need to submit a request for a flood plain determination from DNR Flood Plain (866) 849-0321. After receiving determination submit one of the following:
 - Not in 100-year floodplain or does not require a flood plain permit. Include correspondence from the DNR Flood Plain Section.
 - Requires flood plain permit. Include flood plain permit.
 - Documentation has been submitted to determine site is not in alluvial soils. Refer to "Applicant's Submittal Checklist" on page 10 for alluvial soils documentation.

ITEM 3 – OPERATION INFORMATION:

- A) A construction permit is required prior to any of the following:
1. Constructing or modifying any unformed manure storage structure³, or constructing or modifying a confinement building that uses an unformed manure storage structure³.
 2. Constructing, installing or modifying a confinement building or a formed manure storage structure² at a confinement feeding operation if, after construction, installation or expansion, the AUC of the operation is 1,000 animal units (AU) or more. This also applies to confinement feeding operations that store manure exclusively in a dry form.
 3. Initiating a change that would result in an increase in the volume of manure or a modification in the manner in which manure is stored in any unformed manure storage structure³, even if no construction or physical alteration is necessary. Increases in the volume of manure due to an increase in animal capacity, animal weight capacity or AUC up to the limits specified in a previously issued construction permit do not require a new construction permit.
 4. Initiating a change, even if no construction or physical alteration is necessary, that would result in an increase in the volume of manure or a modification in the manner in which manure is stored in a formed manure storage structure² if, after the change, the AUC of the operation is 1,000 AU or more. Increases in the volume of manure due to an increase in animal capacity, animal weight capacity or AUC up to the limits specified in a previously issued construction permit do not require a new construction permit.
 5. Constructing or modifying any egg washwater storage structure or a confinement building at a confinement feeding operation that includes an egg washwater storage structure.
 6. Initiating a change that would result in an increase in the volume of egg washwater or a modification in the manner in which egg washwater is stored, even if no construction or physical alteration is necessary. Increases in the volume of egg washwater due to an increase in animal capacity, animal weight capacity or AUC up to the limits specified in a previously issued construction permit do not require a new construction permit.
 7. Repopulating a confinement feeding operation if it was closed for 24 months or more and if any of the following apply:
 1. The confinement feeding operation uses an unformed manure storage structure³ or egg washwater storage structure;
 2. The confinement feeding operation includes only confinement buildings and formed manure storage structures² and has an AUC of 1,000 AU or more.
 8. Installing a permanent manure transfer piping system, unless the department determines that a construction permit is not required.

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

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 one under building formed structure that will measure 51' (W) X 384'(L) X 8'(D).

The structures will be covered by a wood framed and steel building.

C) **Master Matrix (must check one).** If any of boxes 1 to 3 are checked, the operation is required to be evaluated with the master matrix if the county, where the confinement feeding operation structure¹ is or would be located, has adopted a 'Construction Evaluation Resolution' (CER). Select the one that best describes your confinement feeding operation:

1. A new confinement feeding operation proposed in a county that has adopted a CER.
2. An existing operation constructed on or after April 1, 2002, in a county that has adopted a CER.
3. An existing operation constructed prior to April 1, 2002, with a current or proposed AUC of 1,667 AU or more, in a county that has adopted a CER.
4. None of the above. Therefore, the master matrix evaluation is not required.

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

1. A swine farrowing and gestating operation with an AUC of 2,500 AU or more. If the replacement breeding swine are raised and used at the operation, the animal units for those replacement animals do not count in the operations total AUC.
2. A swine farrow-to-finish operation with an AUC of 5,400 AU or more.
3. A cattle confinement feeding operation (including dairies) with an AUC of 8,500 AU or more.
4. Other confinement feeding operations with an AUC of 5,333 AU or more.
5. This is not a qualified operation because:
 - a. It is below the limits shown on boxes 1 to 4.
 - b. It includes a confinement feeding operation structure¹ constructed prior to May 31, 1995.
 - c. It handles manure exclusively in a dry form (poultry).

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

A) Calculating AUC – Required for all operations

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

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

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

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

Animal Species	a) Existing AUC (Before permit)			b) Total Proposed AUC (After permit)		
	(No. Head)	x (Factor)	= AUC	(No. Head)	x (Factor)	= AUC
Slaughter or feeder cattle		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	2490	0.4	996	5000	0.4	2000
Nursery pigs 15 lbs to 55 lbs		0.1			0.1	
Sheep and lambs		0.1			0.1	
Horses		2.0			2.0	
Turkeys 7lbs or more		0.018			0.018	
Turkeys less than 7 lbs		0.0085			0.0085	
Broiler/Layer chickens 3 lbs or more		0.01			0.01	
Broiler/Layer chickens less than 3 lbs		0.0025			0.0025	
Fish		0.001			0.001	
TOTALS:	a) Existing AUC:			b) Total proposed AUC:		
			996			2000 ✓

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

c) New AU = b) - a):
d) 1004 ✓

(This is the AUC of the operation)

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

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

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

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

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

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

c) New AWC = b) - a):

(This is the AWC of the operation)

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

- A) **Formed manure storage structures²:** The proposed confinement feeding operation structure¹ will be or will use a formed manure storage structure². Check one of the following boxes:
1. A swine farrowing and gestating operation with an AUC of 1,250 AU or more. Use Submittal Checklist No. 2 (page 13).
 2. A swine farrow-to-finish operation with an AUC of 2,750 AU or more. Use Submittal Checklist No. 2 (page 13).
 3. A cattle confinement feeding operation (including dairies) with an AUC of 4,000 AU or more. Use Submittal Checklist No. 2 (page 13).
 4. Other confinement feeding operations with an AUC of 3,000 AU or more. Use Submittal Checklist No. 2 (page 13).
 5. None of the above. Use Submittal Checklist No. 1 (page 10).

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

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

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

ITEM 6 – SIGNATURE:

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

Signature of Applicant(s): Will C. Foley Date: 2/24/17

MAILING INSTRUCTIONS:

To expedite the application process, follow the submittal requirements explained in Checklist No. 1 or 2 (pages 10 to 16), whichever applies. Page 1 of this form should be the first page of the package. Mail all documents and fees to:

**Iowa DNR
AFO Program
1900 N Grand Ave
Gateway North, Ste E17
Spencer, IA 51301**

(Note: Incomplete applications will be returned to the sender.)

Questions

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

ITEM 7

Interested Parties Form
Confinement Feeding Operation

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

INSTRUCTIONS:

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

Full Name	Address	City/State	Zip
-----------	---------	------------	-----

SEE ATTACHED

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

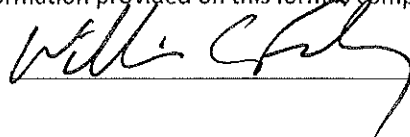
Operation Name	Location (1/4 1/4, 1/4, Section, Tier, Range, Township, County)	City
----------------	---	------

None [There are no other confinements in Iowa in which the above listed person(s) has or have an interest].

SEE ATTACHED

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

Signature of Applicant(s):



Date:

2/24/17

ITEM 7

**Interested Parties Form
Confinement Feeding Operations**

Full Name	Address	City/State	Zip
HT Partners, LLLP	811 S Oak Street	Iowa Falls, IA	50126
Iowa Ag Ventures, LLC	811 S Oak Street	Iowa Falls, IA	50126
Tres Enfants, LLC	811 S Oak Street	Iowa Falls, IA	50126
Erin Turley	203 Poplar Dr.	Kentfield, CA	94904
Reagan Turley	203 Poplar Dr.	Kentfield, CA	94904
Brookglade Farms, LLC	824 Brooks Road	Iowa Falls, IA	50126
Clipper Farms, LLC	824 Brooks Road	Iowa Falls, IA	50126
Cloudburst Farms, LLC	824 Brooks Road	Iowa Falls, IA	50126
Grand Prix Farms, LLC	824 Brooks Road	Iowa Falls, IA	50126
Mustang Farms, LLC	824 Brooks Road	Iowa Falls, IA	50126
Prairie Glade Farms, LLC	824 Brooks Road	Iowa Falls, IA	50126
Bravo Farms, LLC	824 Brooks Road	Iowa Falls, IA	50126
Roseglen Farms, LLC	824 Brooks Road	Iowa Falls, IA	50126
Morning Glory Farms, LLC	824 Brooks Road	Iowa Falls, IA	50126
White Swan Farms, LLC	824 Brooks Road	Iowa Falls, IA	50126
Crestview Farms, LLC	824 Brooks Road	Iowa Falls, IA	50126

Operation Name	Location (¼ ¼, ¼, Section, Tier, Range, Township, County)	City
Barnett Finisher	NE¼, NE¼, 5, T92N-R15W, Butler, Butler	Clarksville
Allison Finisher	SE¼, SE¼, 1, T91N-R17W, Ripley, Butler	Allison
McIntire Finisher	SW¼, NW¼, 25, T100N-R17W, Union, Mitchell	Stacyville
Murra #3 Finisher	NE¼, NE¼, 22, T89N-R17W, Pleasant Valley, Grundy	Parkersburg
Allspach Finisher	SW¼, SW¼, 3, T89N-R16W, Beaver, Grundy	Parkersburg
Chick Finisher	S½ SE¼, 24, T94N-R36W, Herdland, Clay	Webb
Simons Finisher	SW¼, NW¼, 33, T95N-R35W, Logan, Clay	Webb
Ryan Finisher	NW¼, NW¼, 14, T93N-R31W, Des Moines, Pocahontas	Rolfe
Clay Finisher	S½, NE¼, 36, T94N-R38W, Peterson, Clay	Linn Grove
Waucosta Finisher	SE¼, SW¼, 33, T93N-R30W, Wacousta, Humboldt	Bradgate
Hauswirth Finisher	S½, SW¼, 31, T93N-R32W, Powhatan, Pocahontas	Havelock
Poland Finisher	SE¼, SW¼, 3, T93N-R35W, Poland, Buena Vista	Marathon
Ottosen Finisher	SE¼, SW¼, 10, T93N-R30W, Wacousta, Humboldt	Ottosen
Tirevold Finisher	N½, NE¼, 34, T100N-R31W, Iowa Lake, Emmet	Armstrong
Shimon Finisher	NE¼, NE¼, 9, T92N-R32W, Roosevelt, Pocahontas	Rolfe
Elmer Finisher	NE¼, NE¼, 6, T92N-R30W, Avery, Humboldt	Bradgate
Jacobs Finisher	NW¼, SW¼, 22, T94N-R31W, West Bend, Palo Alto	West Bend

ITEM 8

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

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

Credit fees to: Brookglade Farms, LLC

Name of operation: Wacousta Finisher Farm

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	1004	x	\$ 0.15 =	150.60 ✓
3,000 AU or more	5	Poultry		x	\$ 0.08 =	
	6	Other		x	\$ 0.20 =	

ITEM 8 (Cont.)

Filing Fees Form
for Construction Permits.

CASHIER'S USE ONLY
0473-542-473A-0431
0474-542-474A-0431
Facility ID # 63826
County Humboldt

Credit fees to: Brookglade Farms, LLC

Name of operation: Wacousta Finisher Farm

INSTRUCTIONS:

- If the operation is applying for a construction permit enclose a payment for the following:
 - Construction application fee \$250.00.
(Note: This fee is non-refundable)
- A manure management plan must be submitted with a filing fee.
 - Manure management plan filing fee \$250.00
(Note: This fee is non-refundable)
- 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 \$ _____
- Total filing fees: Add the fees paid in items 1, 2 and 3 (above): \$ 500.00

RECEIVED
FEB 28 2017
IOWA DNR
FIELD OFFICE 3

RECEIVED

MAR - 6 2017

IOWA DNR
FIELD OFFICE 2

SUMMARY:

- Manure Storage Indemnity Fee (see previous page) to be deposited in the Manure Storage Indemnity Fee Fund (474)	\$ 150.60	✓
- Total filing fees (see item 4 on this page) to be deposited in the Animal Agriculture Compliance Fund (473)	\$ 500.00	✓
TOTAL DUE:	\$ 650.60	✓ <i>AK</i>

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.

2161


IOWA SELECT FARMS LLP
PO Box 400
Iowa Falls, Iowa 50126

72-2167/739

DATE 2/23/17

Pay to the order of Iowa DNR \$ 650.60

Six hundred fifty dollars 3/60

 **GREEN BELT**
BANK & TRUST
www.greenbeltbank.com

Wacousta Exp

Jaime Keninger

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: Brookglade Farms, LLC Telephone: 641-648-5067

Name of operation: Wacousta Finisher Farm

Location: SE SW 33 T93N-R30W Wacousta Humboldt
(1/4 1/4) (1/4) (Section) (Tier & Range) (Name of Township) (County)

Documents being submitted to the county:

- Construction permit application form: submit items 1 to 9 (see Submittal Checklist No. 1 or 2)
- 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.
- Attachment 4 - Master Matrix (if required). You must include supporting documents (see Checklist No. 1 or 2)

RECEIVED
FEB 28 2017
IOWA DNR
FIELD OFFICE 3

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:

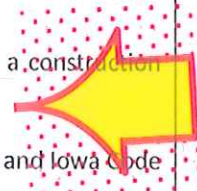
- A new confinement feeding operation that is applying for a construction permit
- An existing confinement feeding operation that was first constructed on or after April 1, 2002 that is applying for a construction permit.
- An existing confinement feeding operation that was first constructed prior to 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: Humboldt
NAME: Dean A. Kruger Dean A. Kruger
TITLE: Sheriff
(Member of the County Board of Supervisors or its designated official/employee)

Date: 2/27, 20 17

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



Location: -94.04485, 42.32017

Ag Drainage Well Distance: 5 miles or more

Well Distance: 310 ft

Alluvial Soils: No

Distance to surface water: 1 mile or more

Distance to Major Source River: 1 mile or more

Distance to Major Source Lake: 115074 ft

Distance to HCDWR water: 1 mile or more

Karst Features: Not in potential karst areas

Designated Wetland Distance: ~2500 ft

Percent Slope: 1%

Distance to public land: 9161 ft

Distances are estimates based on best available data. Distance calculations use ±1.7 ft.

[Printer AFO Siting](#)
[PDF Chart](#)
[Water Information](#)
[Soils and Karst Determination](#)

Layers: Map, Layers, Style

AFO Siting Data

- Alluvial Soils
- Aquifer
- Alluvial Soils
- Sandhole or equivalent karst
- 1000 ft
- Karst and karst features
- Karst

February 24, 2017

To: Humboldt County Board of Supervisors

This letter is provided to clarify certain terms used in the in the Master Matrix Design, Operation and Maintenance Plans that were part of the IDNR Construction Permit Application for the Wacousta Finisher Farm filed by Brookglade Farms, LLC.

A question was raised during a public hearing as to whether the Design, Operation & Maintenance Plans were specific enough regarding the terms "periodic" or "routine" inspections. Webster's dictionary defines the word "periodic" as an adjective; a: occurring or recurring at regular intervals; b: occurring repeatedly from time to time. We believe that good management practices and common sense direct us on the timeliness of such inspections.

To clarify this issue, Iowa Select Farms (whose pigs will be raised at the Wacousta Finishing) requires the reporting of manure levels, water usage and a visual inspection of all storage structures and buildings on a weekly basis. The observations are reported with a computer located on the farm by means of an Internet application. The time, date, observation and person conducting the observations are included in the data entry. Once submitted, the report is immediately available and is reviewed on a weekly basis. If there is a concern, the Farm Manager can enter a maintenance ticket that defines the problem and the time period in which the matter needs to be addressed. The time frame ranges from one day, one week, one month or as routine maintenance is conducted at the farm. Attached you will find screen shots of the data entry forms from that application.

Regarding the inspection of pit floors, IDNR requires that a drainage tile be placed at the base of the footing for under building formed manure structures, such as the ones proposed for the Grey Owl Farms site. The tile must "daylight" so any drainage from around or under the structure can be observed. The observation of the sumps is part of the weekly walk around inspection of the farm. All formed storage structures are poured in compliance with IDNR Construction Design Statement that is signed by the application and contractor. The requirements of 567 IAC Chapter 65.15 are outlined in that document. In addition, the IDNR Field Office is notified prior to the initial concrete pour and has the authority to inspect the storage structure before, during and after the formed structure is poured. Once the structure is completed a Construction Certification is filed and approved prior to place animals on the farm (IAC Ch 65, 65.18). In the event of a natural catastrophic event, proper action will be taken under the direction of an engineer licensed in the State of Iowa and/or the IDNR Engineers.

In reference to the truck turnaround, the Design, Operation and Maintenance Plan is straight forward. The Master Matrix suggests that the diameter of the turnaround be a least 120 feet. The design shows the diameter at 120 feet. The soil is compacted, followed by laying a base layer of 2" rock and then covered with a second layer of 1" rock with an approximate depth of 6". Operation and Maintenance

for a driveway is pretty easy to determine. If the driveway has potholes or settles, you add more rock. The interval and addition of rock is done in a timely manner.

To address the feed and water system for the farm. A research document entitled "Impact of feeders and drinker device on pig performance, water use, and manure volume" by Micheal C Brumm, MS, PhD, James M. Dahlquist, MS and Jill M. Heemstra, MS is provided and highlighted to show the reduction in feed and water usage. In addition, the manufacturer specification for the feeders is provided. As I stated early, water usage and manure levels are reported weekly.

The manure storage structures on this farm and any other farm represent a significant investment and it is not anyone's best interest to design, operate and maintain these structures in a manner that does not protect our neighbors or the environment.

Thank you for your time and attention.

Sincerely

A handwritten signature in cursive script that reads "Keith Kratchmer". The signature is written in black ink and is positioned above the printed name.

Keith Kratchmer, CCA
Environmental Compliance Officer
Iowa Select Farms, LLP

ENVIRONMENTAL REPORT. Howard-F700

Thursday, February 16, 2017, Week 7, Day 16579

Environmental Site Questions History

F700 Data Entry Menu

1000d Date

16579

Name

Disturbances around manure storage

Cross over valve problems

Comments

Condition of Manure Storage (4=best)

Poor Ok Better Great

Pest control (rodents, flies, birds)

Poor Ok Better Great

Weed Control

Poor Ok Better Great

Are Mortalities in Dead box?

You don't have permission to edit Environmental questions



MANURE. Howard-F700

15f\kkratchmer [Chart.js, not supported] Thursday, February 16, 2017, Week 7, Day 15579

Reports: [How to Measure Pit Levels](#) F700 Data Entry Menu

UPDATE MANURE LEVELS

Read Date

2017-02-16 09:00:00

BARN 1

Indoor Formed

E	"	F
0"		96"

Manure Level (liquid, in)

+ Foam Depth (in) =

Total Depth (in)

BARN 2

Indoor Formed

E	"	F
0"		96"

Manure Level (liquid, in)

+ Foam Depth (in) =

Total Depth (in)

Save

HISTORY

There are no manure levels to display.

Show All for the last 30 days Search



WATER METER READING. Howard-F700

isf\kkratchner (class.is-dot.net)

Thursday, February 16, 2017, Week 7, Day 16579

Reports:



Comment Reports



Water Use per Head



F700



Data Entry Menu

UPDATE WATER METER READINGS

Reading Date and Time

2017-02-16

09:35:00

Next

BARNS
NE ROOM



Previous Reading:

2/16/2017 9:35:00 AM

New Reading

BARNS
NW ROOM



Previous Reading:

2/16/2017 9:35:00 AM

New Reading

BARNS
SE ROOM



Previous Reading:

2/16/2017 9:35:00 AM

New Reading

BARNS
SW ROOM



Previous Reading:

2/16/2017 9:35:00 AM

New Reading

Save

Show



for the last

30

days



Search

There are no water meter readings to display

Master Matrix Item 12, Liquid Manure Storage Structure is covered

This farm is claiming 30 points because it will utilize a formed concrete manure storage structure that is below the swine building floor. The structure is covered by concrete slats and the building roof. Based on DNR definition, "A formed manure storage structure directly beneath a floor where animals are housed in a confinement feeding operation is deemed to be covered". Based on this definition this farm qualifies for 30 point.

- a. Design: the under building formed structure will be covered by pre-cast concrete slats and then by the building roof. The building structure and trusses are designed by Environmental Building Solutions of Graettinger, IA. The base building designed to meet 2012 IBC Code. Trusses are designed with a 4/12 pitch. Total Roof Snow load of 25 psf with a dead load of 5 lbs at the top and bottom chord. Total Roof Load of 35 psf for an unbalanced snow load. Wind load design is based on IBC 2012 Fig 1609C (3 sec gust) $V_{ult} = 105$, $V_{asd} = 82$. Trusses are 4' o.c., 90 mph with 12" O.H., SPF#2 2"X 4" purlins 24" o.c. with continuous run. Bottom cord and continuous run lateral bracing is SPF#2 2"X 4" or better, as required. Roof steel is 29 gauge G-90, 82,000 psi Grade E, with standard 1/2" major ribs o.c. with 2 smaller ribs between. Paint is a Silicone Modified Polymer or equivalent. Ceiling steel is 30 gauge G-90. Steel is profile fastened by #10x1 1/2" painted plated roof steel screws with standard washers, seam stitch screwed as needed by design.
- b. Operation: this is a non-moving structure. Weekly inspections will take place with special attention after significant weather events that would include, severe storms that bring significant amounts of wind, heavy rain or hail. Winter events that include snow fall over four inches, ice, and strong wind. Inspections are also important at the time of year when thawing occurs and refreezes to make sure there is not a buildup of heavy snow and ice on the roof.
- c. Maintenance: As stated in the operation plan, if an issue with the roof steel, fasteners, or roof structure is observed immediate attention should be given to correct the problem to insure that the roof is structurally sound. Inspections should include visual inspection of the trusses to verify they are sound and that truss plates are in good condition. Purlins should not be broken and if any are found to be cracked or broken they should be repaired. Roof steel should be inspected for rust or other corrosion that could weaken or cause the roof to leak. This should also include the inspection of steel fasteners to verify they are tight and not showing signs of corrosion that could lead to failure. If problems are discovered that could lead to leaking or failure of the steel roof, action should be taken to correct the problem and maintain the integrity of the roof.

Master Matrix Item 17, Liquid Manure Storage Structure is formed

This farm is claiming 30 points because it will utilize a formed concrete manure storage structure that is below the swine building floor. Based on DNR definition, "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 pressures. Based on this definition the farm qualifies for 30 point.

- a. Design: the under building formed structure is specifically detailed in the Construction Design Statement (CDS) submitted by New Modern Concepts of Iowa Falls, IA. The CDS is written with IDNR engineer design specifications as set forth by IAC 567 Chapter 65, Appendix D. All concrete meets American Society for Test and Materials (ASTM) standard ASTM C 94: 4,000 psi compression strength for walls, floors, beams, columns and pumpouts. Footing are 4,000 psi compressing strength. Walls are 8" thick reinforced concrete with Grade 60, No. 4 rebar on a 13" spacing, pumpouts and other walls that vehicles are within 5' are on a 9" spacing. Prior to pouring concrete the subgrade is graded and compacted to be level and free of debris and other materials. Drainage tile is installed to drain any subsurface water in the event of a high water table. Concrete standard for Portland Cement ASTM C 150, aggregate ASTM C 33 and blending ASTM C 595 are followed for concrete poured between March 15 and October 15. The floor will be at least 5" thick with #4 rebar on 18" center in both directions. Rebar is also installed at all connecting joints between footing, walls and floors. Water stops are installed at all places in exterior walls where fresh concrete meets hardened concrete. Once concrete has properly cured, braced and slats installed and the walls are backfilled with dirt that is free of debris, plants and rocks.
- b. Operation: this is a non-moving structure. Weekly inspections will take place to verify the structure is sound. Any ports installed for inspection and lowering of ground water should be working properly and excess water removed as needed. Care should be given at the time of any manure removal event to make sure any of the walls or structure is not damage and could lead to a compromise. If such an event should take place, it should be reported immediately to the Environmental Service Manager for the farm.
- c. Maintenance: based on the design as a formed concrete structure the maintenance is relatively low. Grass should me moved and any unwanted vegetation should be removed from the area near and around the structure. If weekly visual inspection reveals a crack or other problem that could weaken the structural integrity it should be reported and evaluated by an engineer to determine the proper means to correct the problem.

Master Matrix Item 19, Truck Turnaround

This farm is claiming 20 points because it will utilize a truck turnaround. The farm will have an area suitable for trucks and semi-trailers to turn around off the road. It will be properly surfaced to support the load of vehicles entering the farm. This farm qualifies for 20 points.

- a. Design: Trucks will enter the farm from 160th St. The truck turnaround will be "U" shaped and placed on the South side of the buildings (See attached map). This will allow ample room for trucks to enter, turn around and deliver feed or load animals. The load out will be on the south side of the buildings so trucks can pull forward and back up to the loading chute. The surface will be leveled, compacted and then covered with a layer of crushed rock with a base layer of 2" rock and then a second layer of finer 1" rock to a depth of approximately 6". The driveway will be constructed to meet Humboldt County requirements.
- b. Operation: The driveway and truck turnaround will be operated to provide safe entrance from 160th St., allow trucks to enter, turn around, load or unload livestock or feed and supplies without obstructing the public thoroughfare. The turnaround will also provide a staging area for manure application equipment to enter the farm without obstructing the road.
- c. Maintenance: The truck turnaround and connecting driveway will be graded as needed and more crushed rock will be added when required. Snow will be removed in the winter and sand with ice melt may be used to enhance entry during inclement winter weather.

Master Matrix Item 25, Livestock feeding and watering systems that significantly reduce manure volume.

This farm is claiming 25 points because it will utilize a wet/dry feeding system. Wet/dry feeders significantly reduce feed wastage and reduce water usage. Research conducted by Dr. Michael C. Brumm, Impact of feeders and drinker devices on pig performance, water use, and manure volume, shows a water reduction of 1.59Liters/pig/day, (See attached). In addition manure volume was reduced by 20-30%. This farm qualifies for 25 point.

- a. Design: The buildings on this farm will utilize Farmweld wet/dry feeders (see attached cut sheet) to reduce feed waste, conserve water and reduce manure volume in the storage structure. Pressure regulators are used to control water pressure to no more than 10 psi.
- b. Operation: Feeder will be monitored on a daily basis to insure proper supply of feed and water is available to the pigs. Feeders have a wide range of adjustment as shown on attached cut sheet. Water valves in the bottom of the feeder are inspected to insure proper flow and availability of water. Adjustments to the pressure regulator may be necessary to control the volume of water in the feeder trough
- c. Maintenance: If regular inspection of the feeder reveals a problem with the flow of feed the feeder will be adjusted or cleaned as necessary to allow proper access to feed. If the volume of water in the trough is too high the pressure at the regulator may be reduced. If it appears the water level in the trough is less than desired the valves will be removed and cleaned. If this does not correct the problem the pressure at the regulator may be increased to supply more water in the trough. Feeders will be emptied, cleaned, inspected and repaired as needed prior to populating the farm with a new group of pigs.

Original research

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

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

Summary

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

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

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

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

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

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

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

Table 2: Manure production

	Experiment One (summer)		Experiment Two	
	Dry	Wet/dry	Swing	Nipple
Per pig per day				
Volume	7.02 L (1.85 gal)	4.96 L (1.31 gal)	3.96 L (1.05 gal)	4.59 L (1.21 gal)
Mass*	7.0 kg (15.4 lb)	4.9 kg (10.8 lb)	3.9 kg (8.6 lb)	4.5 kg (9.9 lb)
Per 1000 kg bodyweight				
Mass	109 kg (240 lb)	76 kg (167 lb)	61 kg (134 lb)	70 kg (154 lb)

* 990 kg per m³ (61.8 lb per cu. foot); ASAE⁸

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Farmweld Shelf Feeder.

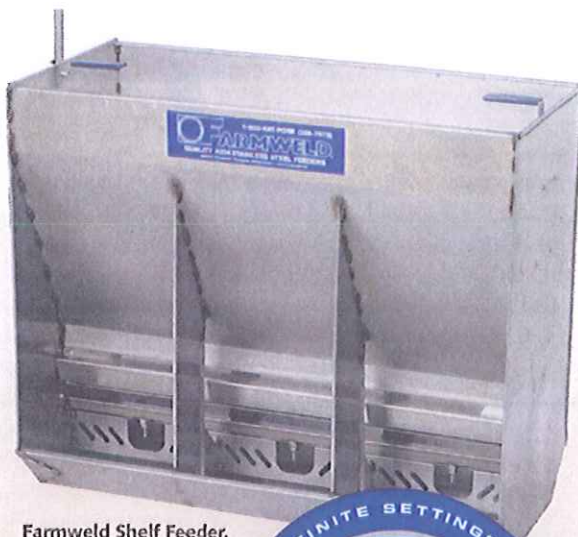
Durable. Productive. Versatile.

precise feed flow, minimum waste

Choose the Farmweld Shelf Feeder for advanced wet-dry feeding from the leader in wean-to-finish feeder design.

Farmweld's elevated feeding shelf design allows feed to flow evenly to enhance feed consumption and reduce waste for pigs from 10 lbs. to market weight. The feeder performs well with various types of rations and other irregular feed particles.

The Farmweld Shelf Feeder offers the patent pending R Adjust™ with easy-to-read technology. R Adjust gives you infinite power to control feed costs and maximize consumption across your entire production system.



Farmweld Shelf Feeder.



F A R M W E L D S H E L F F E E D E R

The Farmweld Shelf Feeder features an elevated, open shelf where feed drops from the hopper. Pigs eat directly from the shelf, or they brush feed into the feed pan for continuous feed delivery. The feeder is ideal for alternative feeds or rations that contain irregular feed consistency.

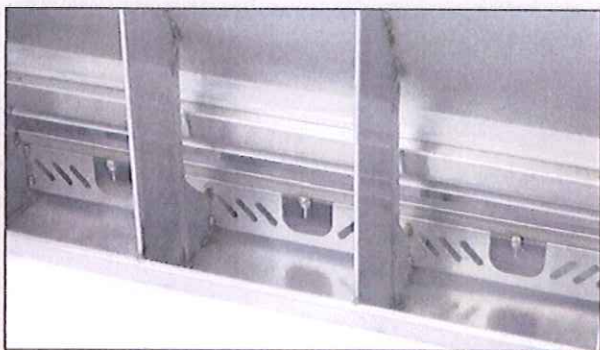
The feeder features the R Adjust that allows for finely tuned adjustments that match feed flow with eating behavior. So, just the right amount of feed is delivered to the shelf. Any pig can eat comfortably and efficiently without wasting feed.

More hopper capacity – The 36" (914 mm) height of the Farmweld Shelf Feeder allows for greater hopper capacity. The extra height also limits pigs from eating from the top and keeps them away from the drop tubes.

Early-weaned pigs in wean-to-finish barns take off quickly with the Farmweld Shelf Feeder. Like our proven Farmweld Jumbo Feeder, the new shelf feeder features a low, 4 3/4" (121 mm) front lip and wide feed spaces to provide optimal feed access and minimum waste. Baby pigs often share a feeding space with a pen mate or two. Experts say this facilitates ideal social eating behavior.

High quality Farmweld construction – The new Farmweld Shelf Feeder is constructed with 100% #304 stainless steel. Full-hemmed edges and reinforced corners mean a better return on your investment. All components are built with heavy-duty 16- and 18-gauge stainless steel to resist corrosion and damage by pigs.

With premium grade materials and high quality craftsmanship, you can't beat the durability and function of the new Farmweld Shelf Feeder.

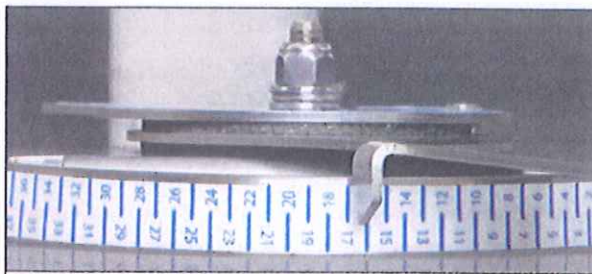


The design of the pan area helps to keep small pigs from getting caught in the feeder.

Roomy feed spaces – Today's heavier pigs require bigger feed spaces. The Farmweld Shelf Feeder's feed spaces are 14" (356 mm) wide x 11" (279 mm) deep. The wide feed space allows pigs to eat straight at the feeder rather than at an angle that can block feed spaces.



The R Adjust is easy to operate for extreme accuracy and infinite control of feeder settings.



The innovative numeric dial makes it easy to select and communicate the proper feeder settings to your production team.

High quality water nipples – Each Farmweld Shelf Feeder has a stainless steel water pipe that feeds Edstrom™ high quality nipples – one nipple per feed hole. There are no screens or springs in the design for less maintenance and longer wearlife than lower quality nipples.

Solid dividers are a preferred feature in Farmweld feeders because they are proven to work! Years ago, Farmweld teamed with Kansas State University scientists to study the effect of solid dividers on performance. The research concluded that solid divider feeders, compared with open rod feeders, reduce end weight variation because pigs ignore their neighbors and stay focused on eating.

Farmweld Shelf Feeder's solid dividers also contribute to safety because they are designed to keep small pigs from getting caught or injured underneath the dividers. The design of the pan area helps to keep smaller pigs from getting caught behind the nipple or between feeding sides.

Various feeder lengths are available, including: 28" (712 mm) with two feed spaces, 42" (1,067 mm) with three feed spaces, 56" (1,423 mm) with four feed spaces, and 70" (1,779 mm) with 5 feed spaces.



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APPENDIX C MASTER MATRIX

Proposed Site Characteristics

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

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

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

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

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

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

<input checked="" type="checkbox"/>	1,501 feet or more	30	12.00	18.00
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(A) Refer to the construction permit application package to determine the animal unit capacity (or animal weight capacity if an expansion) of the proposed confinement feeding operation. Then refer to Table 6 of 567--Chapter 65 to determine minimum required separation distances.

(B) "Public use area" - a portion of land owned by the United States, the state, or a political subdivision with facilities which attract the public to congregate and remain in the area for significant periods of time. Facilities include, but are not limited to, picnic grounds, campgrounds, cemeteries, lodges, shelter houses, playground equipment, lakes as listed in Table 2 of 567--Chapter 65, and swimming beaches. It does not include a highway, road right-of-way, parking areas, recreational trails or other areas where the public passes through, but does not congregate or remain in the area for significant periods of time.

- 3 Additional separation distance, above minimum requirements, from proposed confinement structure to the closest:
- *Educational institution
 - *Religious institution, or
 - *Commercial enterprise.

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

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

(B) The department will award points only for the single building, of the three listed above, closest to the proposed confinement feeding operation.

(C) "Educational institution" - a building in which an organized course of study or training is offered to students enrolled in kindergarten through grade 12 and served by local school districts, accredited or approved nonpublic schools, area educational agencies, community colleges, institutions of higher education under the control of the state board of regents, and accredited independent colleges and universities.

(D) "Religious institution" - a building in which an active congregation is devoted to worship.

(E) "Commercial enterprise" - a building which is used as a part of a business that manufactures goods, delivers services, or sells goods or services, which is customarily and regularly used by the general public during the entire calendar year and which is connected to electric, water, and sewer systems. A commercial enterprise does not include a farm operation.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

* Agricultural drainage well,

* Known sinkhole, or * Major water source.

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

(A) The department will award points only for the single item, of the three listed above, that is closest to the proposed confinement feeding operation.

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

(C) "Major water source" - a lake, reservoir, river or stream located within the territorial limits of the state, or any marginal river area adjacent to the state which can support a floating vessel capable of carrying one or more persons during a total of a six-month period in one out of ten years, excluding periods of flooding. Major water sources in the state are listed in Tables 1 and 2 in 567--Chapter 65.

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

	Score	Air	Water	Community
<input type="checkbox"/> Three-quarter of a mile or more (3,960 feet)	25	7.50	7.50	10.00

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

10 Separation distance from proposed confinement structure to closest:

- *High quality (HQ) waters,
- * High quality resource (HQR) waters, or
- * Protected water areas (PWA)

is at least two times the minimum required separation distance

	Score	Air	Water	Community
<input checked="" type="checkbox"/> Two times the minimum separation distance	30		22.50	7.50

(A) The department will award points only for the single item, of the three listed above, closest to the proposed confinement feeding operation.

(B) HQ waters are identified in 567--Chapter 61.

(C) HQR waters are identified in 567--Chapter 61.

(D) A listing of PWAs is available at

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

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

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

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

(B) A residence that has a signed waiver for the minimum separation distance cannot be included in the model.

(C) Only the OFFSET model is acceptable until the department recognizes other air quality models.

12 Liquid manure storage structure is covered.

	Score	Air	Water	Community
<input checked="" type="checkbox"/> Covered liquid manure storage	30	27.00		3.00

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

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

13 Construction permit application contains design, construction, operation and maintenance plan for

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

(A) The emergency containment area must be able to contain at least 5 percent of the total volume capacity of the manure storage structure.

(B) The emergency containment area must be constructed on soils that are fine-grained and have low permeability.

(C) If manure is spilled into the emergency containment area, the spill must be reported to the department within six hours of onset or discovery.

(D) The design, construction, operation and maintenance plan for the emergency containment area must be in the construction permit application and made a condition in the approved construction permit.

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

	Score	Air	Water	Community
<input type="checkbox"/> Installation of filter(s)	10	8.00		2.00

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

15 Utilization of landscaping around confinement structure.

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

	Score	Air	Water	Community
<input type="checkbox"/> Stockpile and compost facility enhancements	30	9.00	18.00	3.00

(A) The design, operation and maintenance plan for the stockpile or compost structure enhancements must be in the construction permit application and made a condition in the approved construction permit.

(B) The stockpile or compost structures must be located on land adjacent or contiguous to the confinement building.

17 Proposed manure storage structure is formed

	Score	Air	Water	Community
<input checked="" type="checkbox"/> Formed manure storage structure	30		27.00	3.00

(A) "Formed manure storage structure" - a covered or uncovered impoundment used to store manure from an animal feeding operation, which has walls and a floor constructed of concrete, concrete block, wood, steel, or similar materials. Similar materials may include, but are not limited to, plastic, rubber, fiberglass, or other synthetic materials. Materials used in a formed manure storage structure shall have the structural integrity to withstand 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 aer:

	Score	Air	Water	Community
<input type="checkbox"/> Aerated manure storage structure(s)	10	8.00		2.00

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

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

Proposed confinement site has a suitable truck turnaround area so that semitrailers do not have to
 19 back into the facility from the road

	Score	Air	Water	Community
<input checked="" type="checkbox"/> Truck turnaround	20			20.00

(A) The design, operation and maintenance plan for the truck turn around area must be in the construction permit application and made a condition in the approved construction permit.

(B) The turnaround area should be at least 120 feet in diameter and be adequately surfaced for traffic in inclement weather.

20 Construction permit applicant's animal feeding operation environmental and worker protection violation history for the last five years at all facilities in which the applicant has an interest.

	Score	Air	Water	Community
<input type="checkbox"/> No history of Administrative Orders in last five years	30			30.00

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

(B) An environmental violation is a final Administrative Order (AO) from the department of natural resources or final court ruling against the construction permit applicant for environmental violations related to an animal feeding operation. A Notice of Violation (NOV) does not constitute a violation.

21 Construction permit applicant waives the right to claim a Pollution Control Tax Exemption for the life of the proposed confinement feeding operation structure.

	Score	Air	Water	Community
<input type="checkbox"/> Permanent waiver of Pollution Control Tax Exemption	5			5.00

(A) Waiver of Pollution Control Tax Exemption is limited to the proposed structure(s) in the construction permit application.

(B) The department and county assessor will maintain a record of this waiver, and it must be in the construction permit application and made a condition in the approved construction permit.

22 Construction permit applicant can lawfully claim a Homestead Tax Exemption on the site where the
- OR -

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

	Score	Air	Water	Community
<input type="checkbox"/> Site qualifies for Homestead Tax Exemption or permit applicant is closest resident to proposed structure	25			25.00

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

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

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

	Score	Air	Water	Community
<input type="checkbox"/> Family Farm Tax Credit qualification	25			25.00

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

24 Facility size

	Score	Air	Water	Community
<input checked="" type="checkbox"/> 1 to 2,000 animal unit capacity	20			20.00
<input type="checkbox"/> 2,001 to 3,000 animal unit capacity	10			10.00
<input type="checkbox"/> 3,001 animal unit capacity or more	0			0.00

(A) Refer to the construction permit application package to determine the animal unit capacity of the proposed confinement structure at the completion of construction.

(B) If the proposed structure is part of an expansion, animal unit capacity (or animal weight capacity) must include all animals confined in adjacent confinement structures.

(C) Two or more animal feeding operations under common ownership or management are deemed to be a single animal feeding operation if they are adjacent or utilize a common area or system for manure disposal. In addition, for purposes of determining whether two or more confinement feeding operations are adjacent, all of the following must apply:

(a) At least one confinement feeding operation structure must be constructed on and after May 21, 1998.

(b) A confinement feeding operation structure which is part of one confinement feeding operation is separated by less than a minimum required distance from a confinement feeding operation structure which is part of the other confinement feeding operation. The minimum required distance shall be as follows:

(1) 1,250 feet for confinement feeding operations having a combined animal unit capacity of less than 1,000 animal units.

(2) 2,500 feet for confinement feeding operations having a combined animal unit capacity of 1,000 animal units or more.

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

	Score	Air	Water	Community
<input checked="" type="checkbox"/> Wet/dry feeders or other feeding and watering systems that significantly reduce manure volume	25		12.50	12.50

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

Proposed Site Operation and Manure Management Practices

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

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

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

<input type="checkbox"/>	c. Methane digester is used to generate energy from manure and remaining manure is surface-applied under the requirements of an approved department manure management plan	10	3.00	3.00	4.00
<input type="checkbox"/>	After methane digestion is complete, manure is injected or incorporated on the same date it is land-applied under the requirements of an approved department manure management plan	30	12.00	12.00	6.00
<input type="checkbox"/>	d. Dry manure is completely burned to generate energy and no remaining manure is applied under the requirements of a manure management plan	30	9.00	9.00	12.00
<input type="checkbox"/>	Some dry manure is burned to generate energy, but remaining manure is land-applied and incorporated on the same date it is land-applied	30	12.00	12.00	6.00
<input checked="" type="checkbox"/>	e. Injection or incorporation of manure on the same date it is land-applied	30	12.00	12.00	6.00

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

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

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

(D) Requirements pertaining to the sale of bulk dry manure under pursuant to Iowa Code chapter 200A must be incorporated into the construction permit application and made a condition of the approved construction permit.

(E) The design, operation and maintenance plan for utilization of manure as an energy source must be in the construction permit application and made a condition in the approved construction permit.

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

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

	Score	Air	Water	Community
<input type="checkbox"/> Two-year phosphorus crop uptake application rate	10		10.00	

(A) Land application of manure cannot exceed phosphorus crop usage levels for a two-year crop rotation cycle.

(B) The phosphorus uptake application rates must be in the construction permit application and made a condition in the approved construction permit.

28 Land application of manure to farmland that has USDA Natural Resources Conservation Service (NRCS) approved buffer strips contiguous to all water sources traversing or adjacent to the fields listed in the manure management plan.

	Score	Air	Water	Community
<input type="checkbox"/> Manure application on farmland with buffer strips	10		8.00	2.00

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

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

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

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

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

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

Additional separation distance, above minimum requirements (0 or 750 feet, see below), for the land application of manure to the closest:

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

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

(A) The department will award points only for the single building, of the four listed above, closest to the proposed confinement feeding operation.

(B) Minimum separation distance for land application of manure injected or incorporated on the same date as application: 0 feet.

(C) Minimum separation distance for land application of manure broadcast on soil surface: 750 feet.

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

(E) "Licensed child care center" – a facility licensed by the department of human services providing child care or preschool services for seven or more children, except when the facility is registered as a child care home.

(F) "Registered child development homes" - child care providers certify that they comply with rules adopted by the department of human services. This process is voluntary for providers caring for five or fewer children and mandatory for providers caring for six or more children.

(G) A full listing of licensed and registered child care facilities is available at county offices of the department of human services.

Additional separation distance, above minimum requirements (0 or 750 feet, see below), for land application of manure to closest public use area.

	Score	Air	Water	Community
<input type="checkbox"/> Additional separation distance of 200 feet	5	2.00		3.00

(A) "Public use area" - a portion of land owned by the United States, the state, or a political subdivision with facilities which attract the public to congregate and remain in the area for significant periods of time. Facilities include, but are not limited to, picnic grounds, campgrounds, cemeteries, lodges, shelter houses, playground equipment, lakes as listed in Table 2 in 567--Dchapter 65, and swimming beaches. It does not include a highway, road right-of-way, parking areas, recreational trails or other areas where the public passes through, but does not congregate or remain in the area for significant periods of time.

- (B) Minimum separation distance for land application of manure injected or incorporated on the same date as application: 0 feet.
- (C) Minimum separation distance for land application of manure broadcast on soil surface: 750 feet.
- (D) The additional separation distances must be in the construction permit application and made a condition in the approved construction permit.

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

	Score	Air	Water	Community
<input type="checkbox"/> Additional separation distance of 200 feet	5	2.00		3.00

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

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

	Score	Air	Water	Community
<input type="checkbox"/> Additional separation distance of 50 feet or well is properly closed	10		8.00	2.00

- (A) Minimum separation distance for land application of manure injected or incorporated on the same date as application or 50-foot vegetation buffer exists around well and manure is not applied to the buffer: 0 feet.
- (B) Minimum separation distance for land application of manure broadcast on soil surface: 200 feet.
- (C) If applicant chooses to close the well, the well closure must be incorporated into the construction permit application and made a condition in the approved construction permit.

- 34** Additional separation distance, above minimum requirements, for the land application of manure to the closest:
- * Agricultural drainage well,
 - * Known sinkhole,
 - * Major water source, or

* Water source.

	Score	Air	Water	Community
<input type="checkbox"/> Additional separation distance of 200 feet	5	0.50	2.50	2.00
<input type="checkbox"/> Additional separation distance of 400 feet	10	1.00	5.00	4.00

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

(B) "Major water source" - a lake, reservoir, river or stream located within the territorial limits of the state, or any marginal river area adjacent to the state, which can support a floating vessel capable of carrying one or more persons during a total of a six-month period in one out of ten years, excluding periods of flooding. Major water sources in the state are listed in Tables 1 and 2 in 567--Chapter 65.

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

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

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

- * High quality (HQ) water,
- * High quality resource (HQR) water, or
- * Protected water area (PWA).

	Score	Air	Water	Community
<input type="checkbox"/> Additional separation distance of 200 feet	5		3.75	1.25
<input checked="" type="checkbox"/> Additional separation distance of 400 feet	10		7.50	2.50

(A) HQ waters are identified in 567--Chapter 61.

(B) HQR waters are identified in 567--Chapter 61.

(C) A listing of PWAs is available at

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

36 Demonstrated community support.

	Score	Air	Water	Community
<input type="checkbox"/> Written approval of 100% of the property owners within a one mile radius.	20			20.00

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

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

(A) The worker safety and protection plan must be in the construction permit application and made a condition in the approved construction permit.

(B) The worker safety and protection plan and subsequent records must be kept on site with the manure management plan records.

38 Applicant signs a waiver of confidentiality allowing public to view confidential manure management plan land application records

	Score	Air	Water	Community
<input type="checkbox"/> Manure management plan confidentiality waiver	5			5.00

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

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

- OR -

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

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

The Iowa department of workforce development regional profiles are available at <http://www.iowaworkforce.org/centers/regional/sites.htm>. Select the appropriate region and then select "Regional Profile."

40 Construction permit application contains an emergency action plan.

	Score	Air	Water	Community
<input type="checkbox"/> Emergency action plan	5		2.50	2.50

(A) Iowa State University Extension publication PM 1859 lists the components of an emergency action plan. The emergency action plan submitted should parallel the components listed in the publication.

(B) The posting and implementation of an emergency action plan must be in the construction permit application and made a condition in the approved construction permit.

(C) The emergency action plan and subsequent records must be kept on site with the manure management plan records.

41 Construction permit application contains a closure plan.

	Score	Air	Water	Community
<input type="checkbox"/> Closure plan	5		2.50	2.50

(A) The closure plan must be in the construction permit application and made a condition in the approved construction permit.

(B) The closure plan must be kept on site with the manure management plan records.

Adoption and implementation of an environmental management system (EMS)

42 recognized by the department.

	Score	Air	Water	Community
<input type="checkbox"/> EMS	15	4.50	4.50	6.00

(A) The EMS must be in the construction permit application and made a condition in the approved construction permit.

(B) The EMS must be recognized by the department as an acceptable EMS for use with confinement operations.

Adoption and implementation of NRCS approved Comprehensive Nutrient Management

43 Plan (CNMP).

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

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

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

	Score	Air	Water	Community
<input type="checkbox"/> Groundwater monitoring	15		10.50	4.50

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

(B) The design, operation and maintenance plan for the groundwater monitoring wells, and data transfer to the 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
445	137	136.5	171.5
440	53.38	67.75	101.13

Master Matrix Supporting Document

Site Name: Wacousta Finisher Farm Contact: Keith Kratchmer

Master Matrix #1

The closest residence lies 3876 feet northwest of the proposed structures. Subtracting the required separation distance of 1875 feet leaves 2001 feet additional separation.

Master Matrix #2

There is no public use area within 4001 feet of the proposed structures.

Master Matrix #3

There is no educational, religious institution, or commercial enterprise within 3376 feet of the proposed structures.

Master Matrix #4

The closest water source is Drainage Ditch 7 that lies 4009 feet to the southeast of the proposed structures. Subtracting the required separation distance of 500 feet leaves 3509 feet additional separation.

Master Matrix #6

There is no critical public use area within 3000 feet of the proposed site as shown on the following map.

Master Matrix #8

There is no major water source within 3501 feet of the proposed structures.

Master Matrix #10

There is no designated high quality or protected waters within 2000 feet of the proposed structures.

Master Matrix #24

Facility size is 2000 Animal Units.

Master Matrix #26e

Manure from this operation will be injected or incorporated on the same day of land application. If it is not feasible to inject or incorporate manure on the same day due to prolonged undesirable weather or field conditions the site owner will have written approval for an emergency waiver from the Mason City DNR Field Office to surface apply manure prior to land application of the manure.

Master Matrix #35

There is no designated high quality or protected waters near application fields. If a field is added within such an area an additional 400 foot separation distance will be implemented.

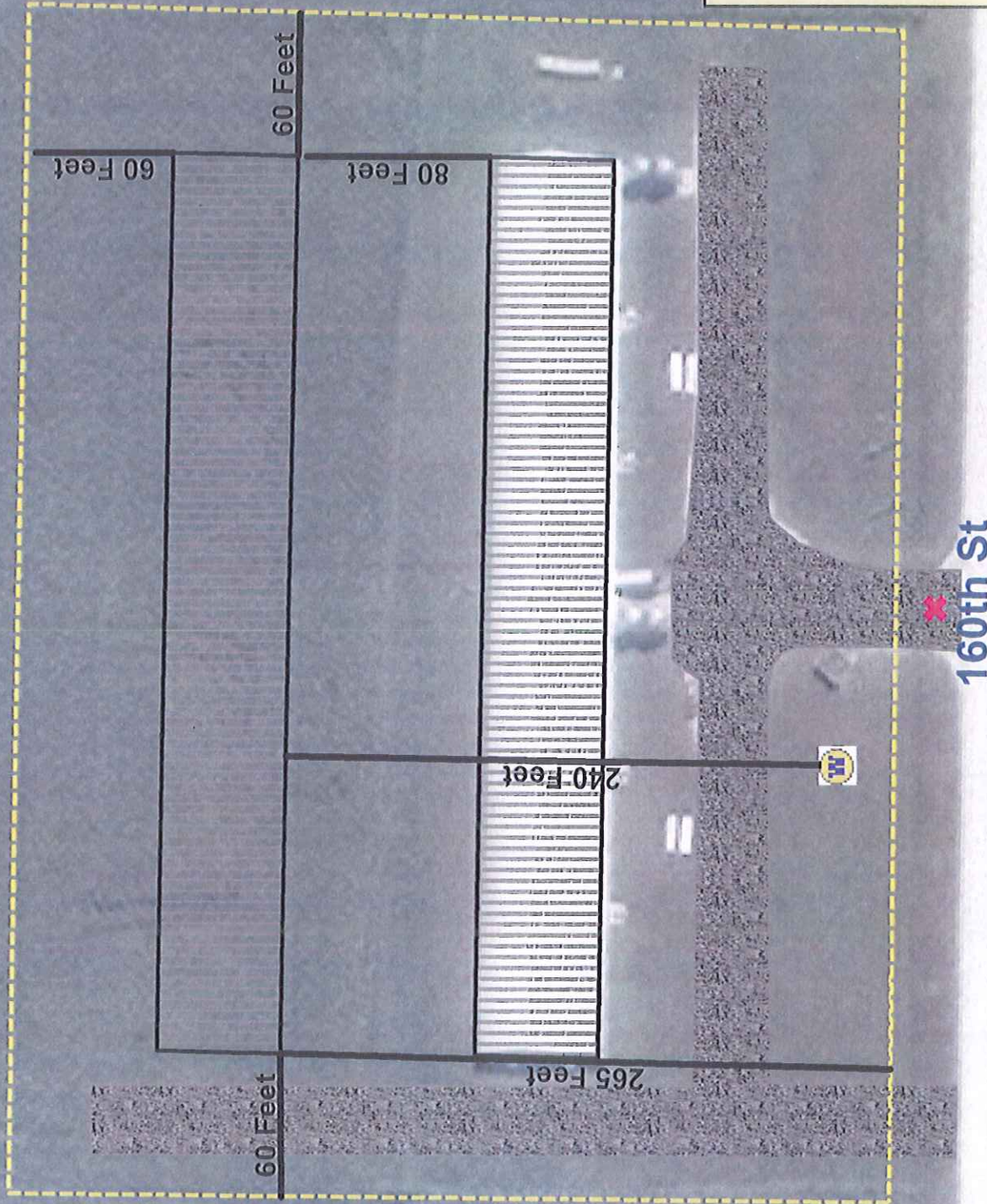
Wacousta Finisher Farm Site

Key for Additional Separation Distance Map

Matrix Item #	Actual Distance	Minimum Required Distance	Additional Separation Distance above Minimum	Score	Air	Water	Community
1. Closest Residence	3876 ft	1875 ft	2001 ft	100	65.00	0.00	35.00
2. Closest Public Use Area	4001 ft>	2500 ft	1501 ft>	30	12.00	0.00	18.00
3. Closest School, Church, Business	3376 ft>	1875 ft	1501 ft>	30	12.00	0.00	18.00
4. Closest Water Source	4009 ft	500 ft	3509 ft	30	0.00	30.00	0.00
5. Distance to Thoroughfare	NA	100 ft		0	0.00	0.00	0.00
6. Closest Critical Public Use	3000 Ft>	2500 ft	500 ft>	10	4.00	0.00	6.00
7. Distance to Water Well	NA	100 ft		0	0.00	0.00	0.00
8. Closest Major Water Source	3501 ft>	1000 ft	2501 ft>	50	5.00	25.00	20.00
9. Distance to MMP Facility	NA	3960 ft		0	0.00	0.00	0.00
10. Closest High Quality Water	2000 ft>	1000 ft	1000 ft>	30	0.00	22.50	7.50

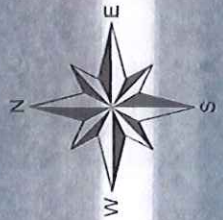
*Separation distance based on Table 6 from DNR document Minimum Separation Distances for Construction or Expansion of Confinement Feeding Operation Structures.

F317 Wacousta Finisher Farm Separation Distance Map

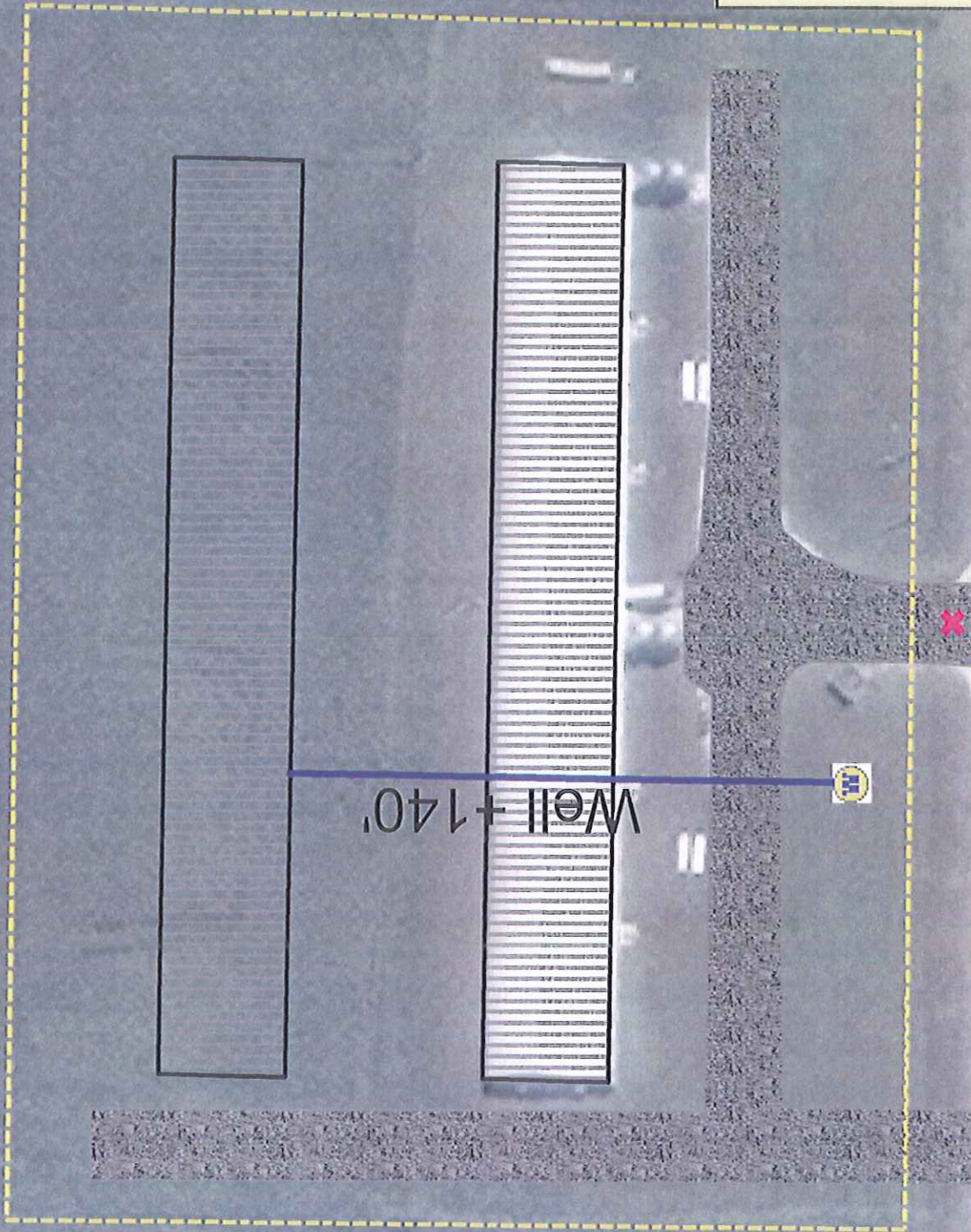


Legend

- IA Streets
- Separated Object
- Well
- Separation Distance Lines
- Proposed Building
- Site Location
- Animal Type
- Finisher
- Site Boundary
- Building Footprint
- Vehicle Turn-Around



F317 Wacousta Finisher Farm Additional Separation Distance Map

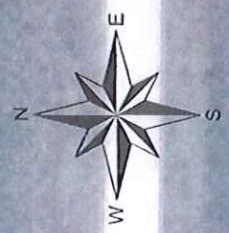


Well + 140'

160th St

Legend

- IA Streets
- Separated Object
- Well
- Separation Distance Lines
- Proposed Building
- Site Location
- Animal Type
- Finisher
- Site Boundary
- Building Footprint
- Vehicle Turn-Around










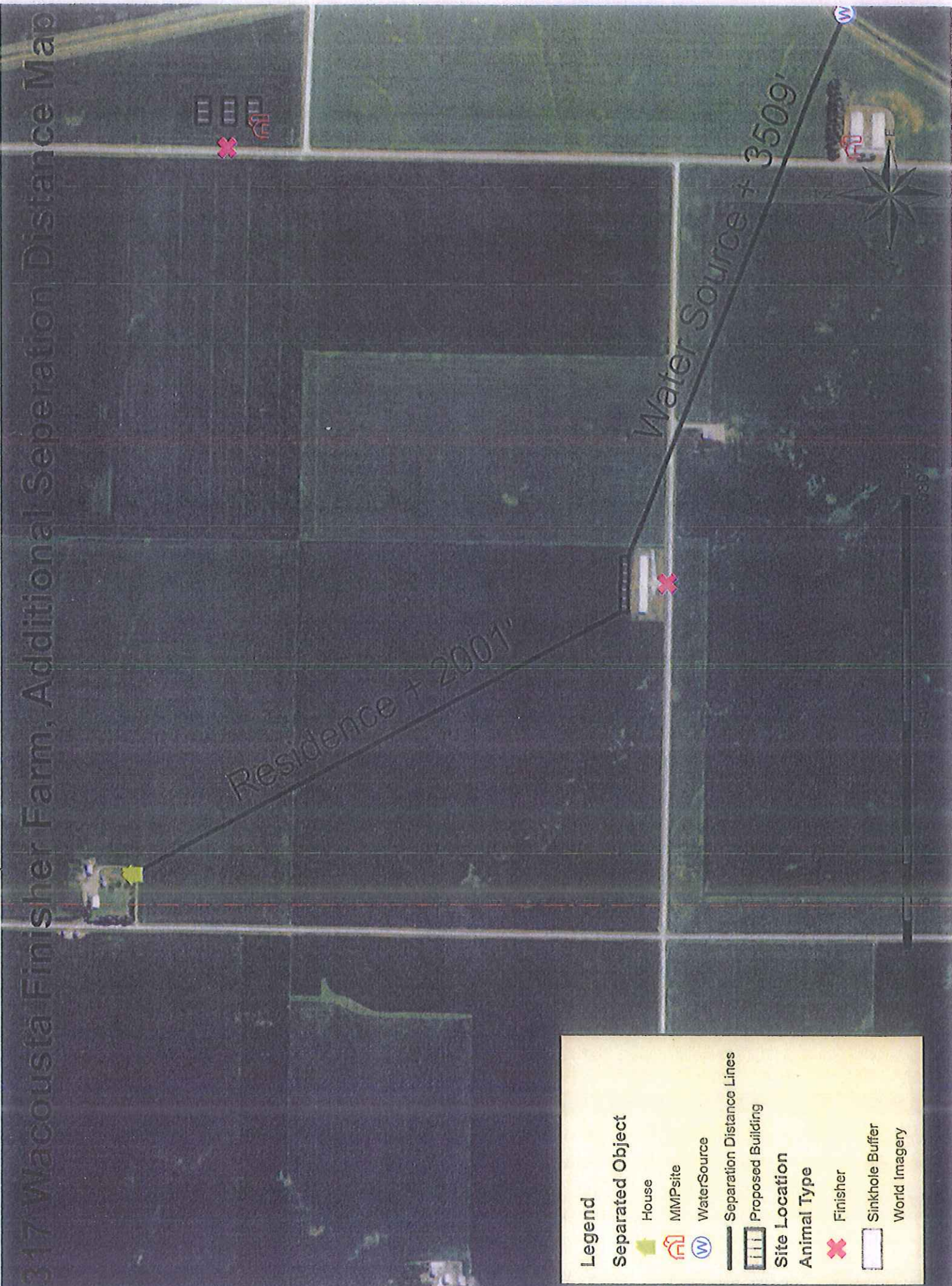
317 Wacousta Finisher Farm, Additional Separation Distance Map

Residence + 200'

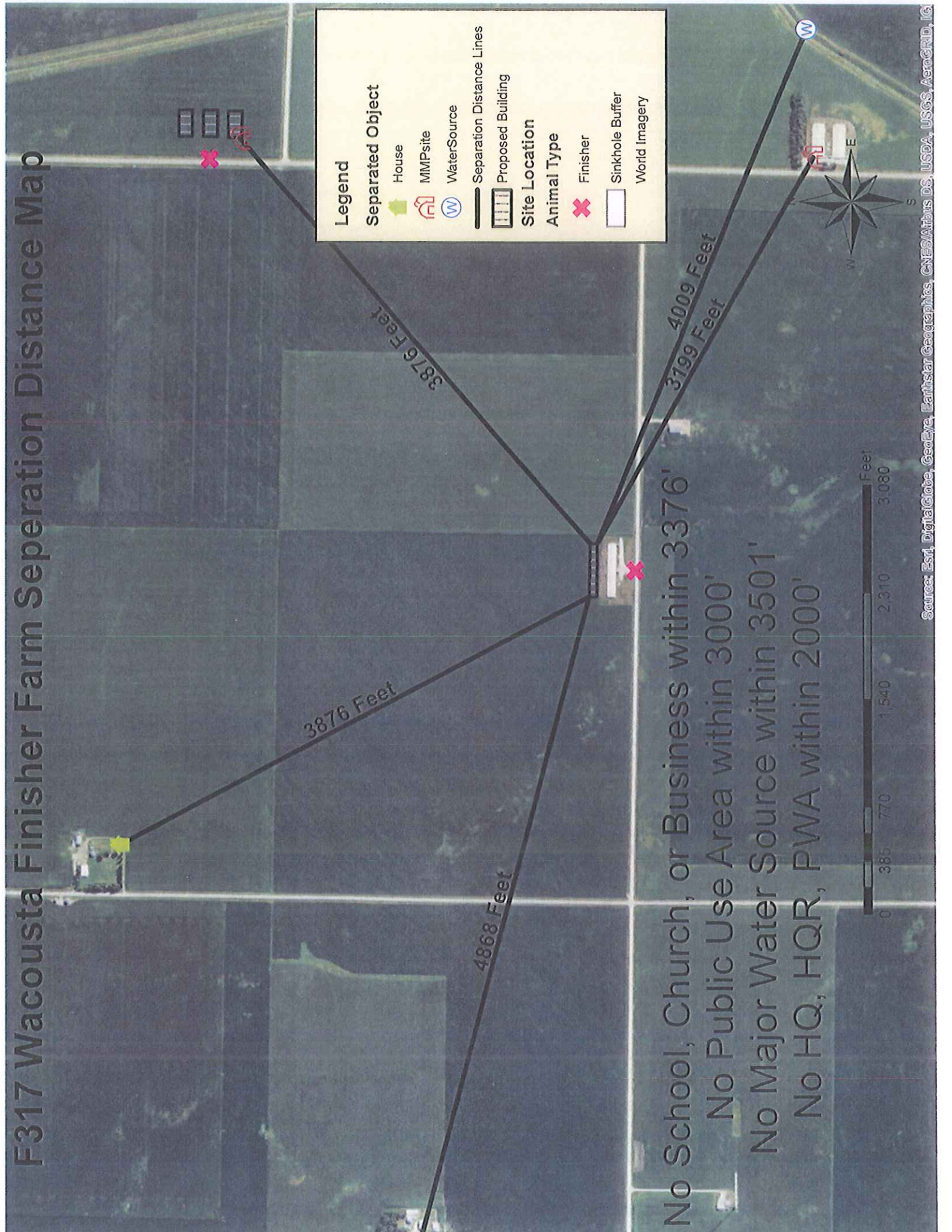
Water Source + 3509'

Legend

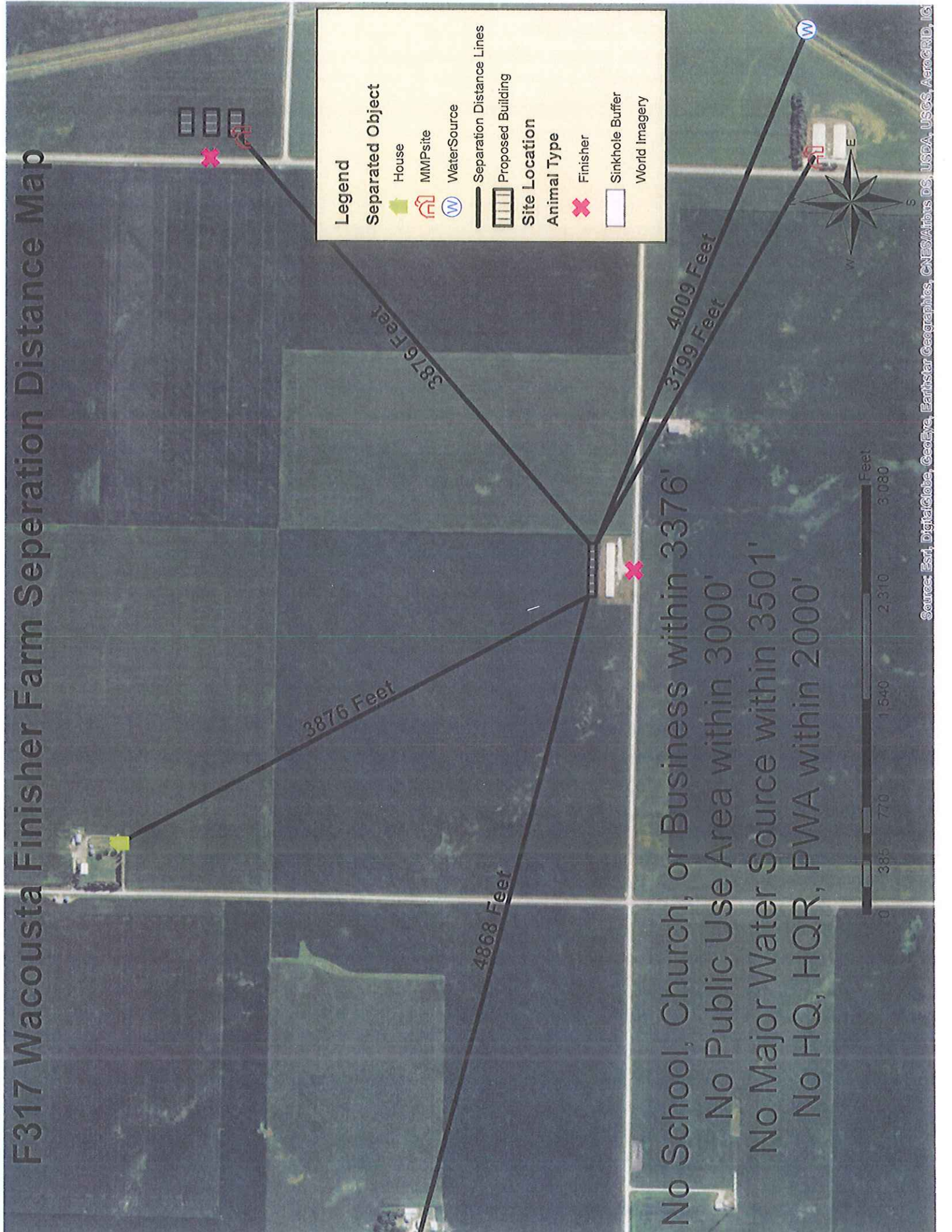
	House
	MMPsite
	WaterSource
	Separation Distance Lines
	Proposed Building
Site Location	
Animal Type	
	Finisher
	Sinkhole Buffer
	World Imagery



F317 Wacousta Finisher Farm Separation Distance Map



F317 Wacousta Finisher Farm Separation Distance Map



3876 Feet

3876 Feet

4868 Feet

No School, Church, or Business within 3376'

No Public Use Area within 3000'

No Major Water Source within 3501'

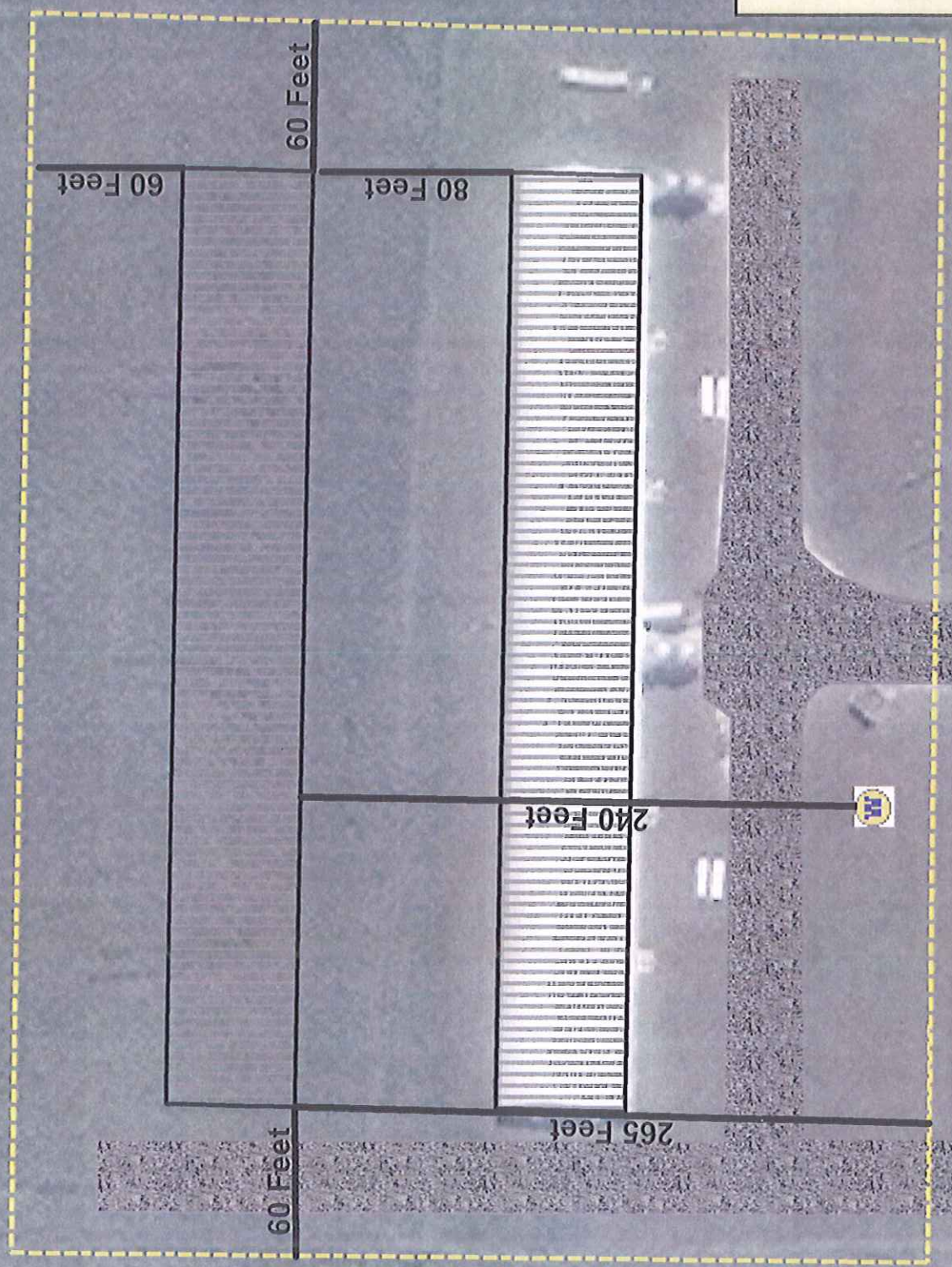
No HQ, HQR, PWA within 2000'

4009 Feet

3799 Feet

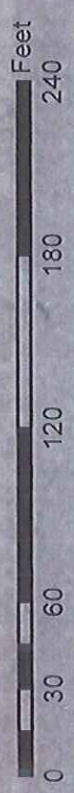
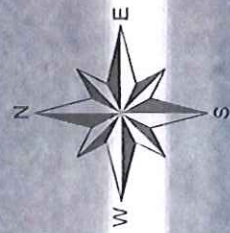


F317 Wacousta Finisher Farm Separation Distance Map



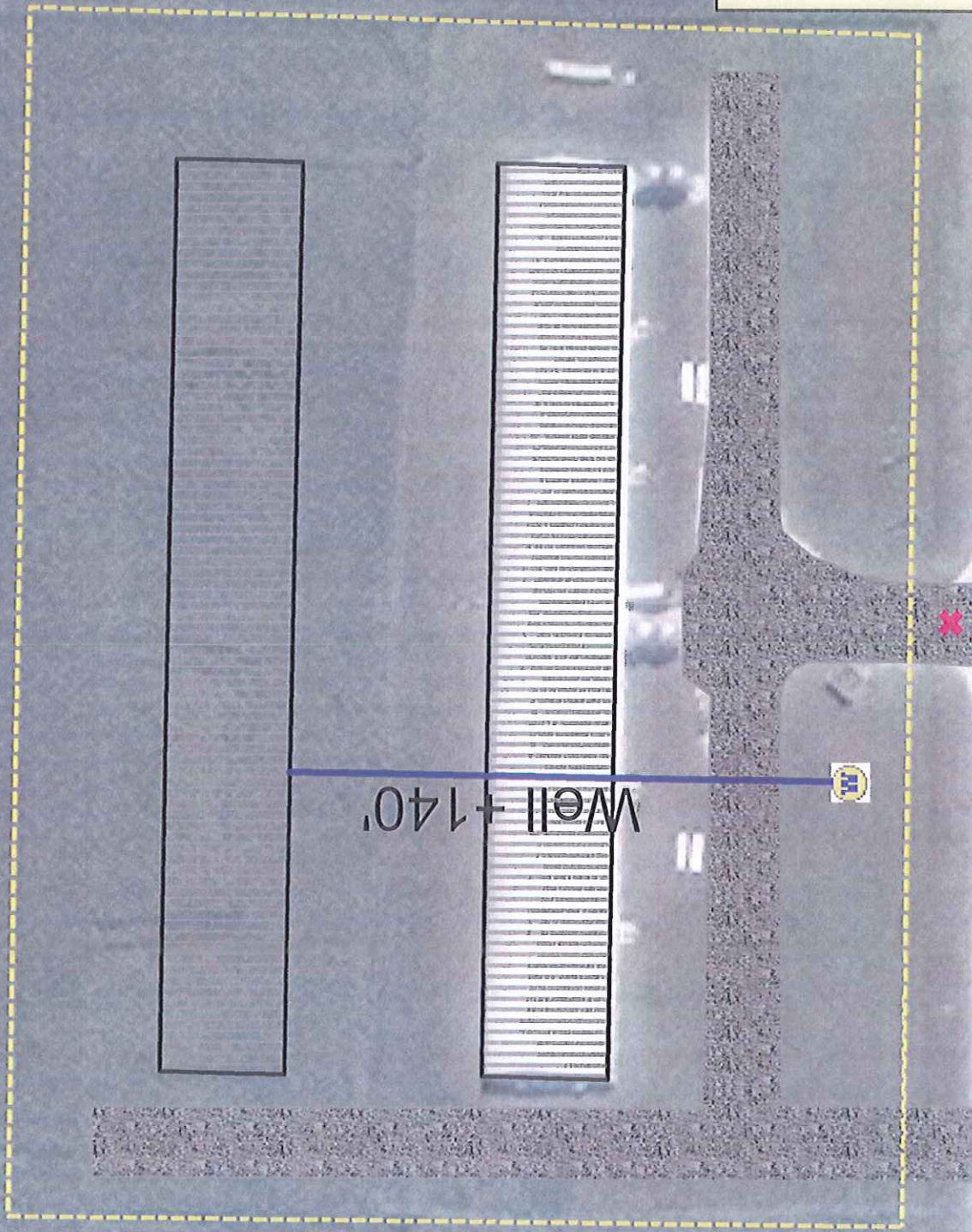
Legend

- IA Streets
- Separated Object
- Well
- Separation Distance Lines
- Proposed Building
- Site Location
- Animal Type
- Finisher
- Site Boundary
- Building Footprint
- Vehicle Turn-Around



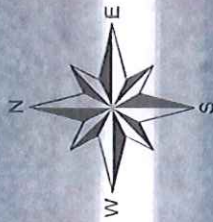
160th St

F317 Wacousta Finisher Farm Additional Separation Distance Map



Legend

- IA Streets
- Separated Object
- Well
- Separation Distance Lines
- Proposed Building
- Site Location
- Animal Type
- Finisher
- Site Boundary
- Building Footprint
- Vehicle Turn-Around



F317 Wacousta Finisher Farm, Additional Separation Distance Map



Legend

Separated Object

- House
- MMPsite
- WaterSource

Separation Distance Lines

- Proposed Building

Site Location

Animal Type

- Finisher
- Sinkhole Buffer

World Imagery





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 5).
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 5, and page 6 (if applicable) as instructed on page 6. 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.

RECEIVED

FEB 28 2017

IOWA DNR
FIELD OFFICE 3

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

A) Information about the operation:

Name of operation: Wacousta, Finisher Farm Facility ID No.: 63826
 Location: SE1/4 SW1/4 33 T93N & R30W Wacousta Humboldt
 (¼ ¼) (¼) (Section) (Tier & Range) (Name of Township) (County)

B) Description of the proposed formed manure storage structure³. Include dimensions (length, width, or diameter, depth). Indicate if it is aboveground or belowground; covered or uncovered, made of concrete or steel, address location of pit fans, if applicable, and address water line entry into buildings. If necessary attach more pages:

Expansion of existing one barn site to a two barn site. One confinement buildings with full slatted flooring and concrete containment under the building below ground. Containment measurements are 51'-2" (wide) X 384'-0" (length) X 8' (depth). Waterline will enter the building above top of wall. 6'-0" X 6'-0" pumpouts flush with top of pit and top vented.

C) 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) or surface intakes of an agricultural drainage well
- Designated wetlands
- Road right-of-way

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

All separation distances that are not clearly in excess of the required minimum separation distance must be measured according to 567 IAC 65.11(5) using standard survey methods. Go to the DNR fact sheet page at <http://www.iowadnr.gov/Environmental-Protection/Land-Quality/Animal-Feeding-Operations/AFO-Resources/AFO-Factsheets> and select DNR fact sheet "Distance Requirements for Construction" to find the required separation distances. Or, go directly to: <http://www.iowadnr.gov/Portals/idnr/uploads/forms/5421420.pdf>. An example aerial photo can be found on pages 18 to 19 of the AFO Construction Permit Application (DNR Form 542-1428). Or, go directly to: http://www.iowadnr.gov/Portals/idnr/uploads/afo/fs_iemap.pdf.

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.

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.

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

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

E) **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 1-866-849-0321. Check one of the following:

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

Section 2 - Manure management plan:

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

Brookglade Farms, LLC
Owner's Name (print)

Willie C. Fly
Owner's Signature

2/24/17
Date

Section 3 - Construction design standards: The person responsible for constructing the formed manure storage structure(s) must complete pages 2 to 5.

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 2 for each formed manure storage structure³ that have different dimensions. Complete all of the following information:

Number of buildings: 1 Building name: Barn 2

Dimensions of proposed formed manure storage structure³

	Length	Width	Height or depth	Wall thickness	Diameter (circular tanks only)
Feet	384	51	8		
Inches		2		8	

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

- a. To use Tables D-1 and D-2 (on pages 7-8), backfilling of walls shall be performed with gravel, sand, silt, and clay mixtures (less than 50 percent fines), with coarse sand with silt or clay (less than 50 percent fines), or cleaner granular material (see page 9 for the unified soils classification). You will need to submit a copy of a USDA soil survey map with the proposed location of the

formed manure storage structures³ clearly marked showing the unified soil classification; or a statement signed by a qualified organization or NRCS staff.

- b. Use Tables D-3 and D-4 (on pages 8-9) if backfilling of walls will be performed with soils that are unknown or with low plasticity silts and clays with some sand or gravel (50 percent or more fines); or fine sands with silt or clay (less than 50 percent fines); or low to medium plasticity silts and clays with little sand or gravel (50 percent or more fines); or high plasticity silts and clays (see page 9 for unified soils classification). You must use Tables D-3 and D-4 if you do not submit the soils information requested in box "a", above.

Maximum spacing of steel, in inches

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 <u>not</u> allowed within 5 feet (use Table D-1) ^a	All walls with pumpout ports and walls where vehicles are allowed within 5 feet (use Table D-2) ^a	Walls where vehicles are <u>not</u> allowed within 5 feet (use Table D-3) ^b	All walls with pumpout ports and walls where vehicles are allowed within 5 feet (use Table D-4) ^b	
Grade 40, No. 4					
Grade 40, No. 5					
Grade 60, No. 4				9	13
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.

- In lieu of the drain tile, a certification signed by a PE², a groundwater professional certified pursuant to 567 Chapter 134, or a qualified staff from NRCS, is being submitted indicating that the groundwater elevation, according to 65.15(7)"c", is below the bottom of the formed structure.
3. Minimum as-placed concrete compressive strength (check the following box):
- All concrete shall have the following minimum as-placed compressive strengths and shall meet American Society for Testing and Materials (ASTM) standard ASTM C 94: 4,000 pounds per square inch (psi) for walls, floors, beams, columns and pumpouts and 3,000 psi for the footings. The average concrete strength by testing shall not be below design strength. No single test result shall be more than 500 psi less than the minimum compressive strength.
4. Cement and aggregates specifications (check the following box):
- Cementitious materials shall consist of Portland cement conforming to ASTM C 150. Aggregates shall conform to ASTM C 33. Blended cements in conformance with ASTM C 595 are allowed only for concrete placed between March 15 and October 15. Portland-pozzolan cement or Portland blast furnace slag blended cements shall contain at least 75 percent, by mass, of Portland cement.
5. Concrete consolidation and vibration requirements (check the following box):
- All concrete placed for walls shall be consolidated or vibrated, by manual or mechanical means, or a combination, in a manner which meets ACI 309.
6. Minimum rebar specifications: (check the following box):
- All rebar used shall be a minimum of grade 40 steel. All rebar, with the exception of rebar dowels connecting the walls to the floor or footings, shall be secured and tied in place prior to the placing of concrete.
7. Wall reinforcement placement specifications (check the following box):
- All wall reinforcement shall be placed so as to have a rebar cover of 2 inches from the inside face of the wall for a belowground manure storage structure. Vertical wall reinforcement should be placed closest to the inside face. Rebar placement shall not exceed tolerances specified in ACI 318.
8. Minimum floor specifications. Complete part a) and b):
- a) Floor thickness requirements (check the following box):
- The floor slab shall be a minimum of 5 inches thick. Nondestructive methods to verify the floor slab thickness may be required by the department. The results shall indicate that at least 95 percent of the floor slab area meets the minimum required thickness. In no case shall the floor slab thickness be less than 4½ inches.
- b) The floor slab reinforcement shall be located in the middle of the thickness of the floor slab (check one of the following boxes):
- Formed manure storage structures with a depth of 4 feet or more shall have primary reinforcement consisting of a minimum of #4 rebar placed a maximum of 18 inches on center in each direction placed in a single mat.
- Formed manure storage structure with a depth less than 4 feet shall have shrinkage reinforcement consisting of a minimum of 6 × 6-W1.4 × W1.4 welded wire fabric.
9. Minimum footing specifications (check the following box):
- The footing or the area where the floor comes in contact with the walls and columns shall have a thickness equal to the wall thickness, but in no case be less than 8 inches, and the width shall be at least twice the thickness of the footing. All exterior walls shall have footings below the frostline. Tolerances shall not exceed -½ inch of the minimum footing dimensions.
10. Requirement to connect walls to footings (check one of the following boxes):
- The vertical steel of all walls shall be extended into the footing, and be bent at 90°, OR
- A separate dowel shall be installed as a #4 rebar that is bent at 90° with at least 20 inches of rebar in the wall and extended into the footing within 3 inches of the bottom of the footing and extended at least 3 inches horizontally, as indicated in Appendix D, Figure D-1 (page 10). Dowel spacing (bend or extended) shall be the same as the spacing for the vertical rebar.
- As an alternative to the 90° bend, the dowel may be extended at least 12 inches into the footing, with a minimum concrete cover of 3 inches at the bottom, as indicated in Appendix D, Figure D-1 (page 10). Dowel spacing (bend or extended) shall be the same as the spacing for the vertical rebar.
- In lieu of dowels, mechanical means or alternate methods may be used as anchorage of interior walls to footings. Please submit structural calculations and details of this proposal.
11. Concrete forms specifications (check the following box):
- All walls shall be formed with rigid forming systems and shall not be earth-formed.

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: Wacousta, Finisher Farm County: Humboldt

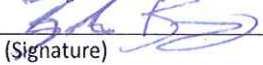
Owner's name: Brookglade Farms, LLC

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

Page 2, for each formed manure storage structure³ that have different dimensions

Pages 3 to 5 (applicable sections)

Other documents (specify): _____

<u>Zach Breja</u> (Print name)	<u></u> (Signature)	<u>2/23/2017</u> (Date)
<u>New Modern Concepts</u> (Company)	<u>824 Brooks Road, Iowa Falls, IA</u> (Address)	<u>641-648-5067</u> (Phone No.)

(See page 6 for mailing instructions)

H) Upgraded Concrete Standards Certification: If "Yes" was checked in Section 1.D (page 2) -site exhibits karst terrain or drains into a known sinkhole- 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.

(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 liner material 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

OFFER TO BUY REAL ESTATE AND ACCEPTANCE

TO: Martin Zaugg Farms Inc, Sellers.

1. REAL ESTATE DESCRIPTION. The Buyers offer to buy real estate in Humboldt County, Iowa, described as follows:

Approximately two acres, more or less, located in the SE ¼ of SW ¼ of Section 33, Township 93 North, Range 30 West of the 5th P.M., (Wacousta Township) exact location and size to be determined by survey and engineering design, as determined by and at the cost of Buyer,

with any easements and appurtenant servient estates, but subject to the following: (a) any zoning and other ordinances; (b) any covenants of record; (c) any easements of record for public utilities, roads and highways (designated the "Real Estate"); provided Buyers, on possession, are permitted to make the following use of the Real Estate: CONSTRUCTION AND OPERATION OF A HOG CONFINEMENT FACILITY.

2. PRICE. The purchase price shall be \$10,000.00 per gross acre purchased, based on final survey, payable as follows: \$1.00 (the "Deposit") to be advanced to Sellers upon acceptance of this offer and the balance to be paid in cash at closing upon the transfer to Buyers of the warranty deed (and, if applicable, manure easements to be granted by Sellers).

3. REAL ESTATE TAXES. Taxes shall be prorated to January 1, 2017 Sellers shall pay any unpaid real estate taxes payable in prior years. Buyers shall pay all subsequent real estate taxes. Any proration of real estate taxes on the Real Estate shall be based upon such taxes for the year currently payable unless the parties state otherwise.

4. SPECIAL ASSESSMENTS. Sellers shall pay all special assessments which are a lien on the Real Estate as of the date of acceptance of this offer. All other special assessments shall be paid by Buyers.

5. RISK OF LOSS AND INSURANCE. All risk of loss as to the Real Estate prior to Seller's closing shall remain with Sellers until possession of the Real Estate shall be delivered to Buyer. Sellers shall maintain existing coverage fire, windstorm and extended coverage insurance on the Real Estate until possession is given to Buyer. Buyer, if they desire, may obtain additional insurance to cover such risk. If Buyer takes possession of the Real Estate prior to closing to initiate construction of a hog confinement building or buildings, Buyer shall provide its own insurance on such construction in process.

6. CARE AND MAINTENANCE. The Real Estate shall be preserved in its present condition and delivered intact at the time possession is delivered to Buyer.

7. POSSESSION. If Buyers timely perform all obligations, possession of the real estate shall be delivered to Buyers upon confirmation of approval to begin construction from IDNR, with any adjustments of rent, insurance, and interest to be made as of the date of transfer of possession.

8. FIXTURES. All property that integrally belongs to or is part of the Real Estate, whether attached or detached, shall be considered a part of Real Estate and included in the sale.

9. USE OF PURCHASE PRICE. At time of settlement, some or all of the purchase price may be used to pay taxes and other liens and to acquire outstanding interests, if any, of others.

10. ABSTRACT AND TITLE. Sellers, at Buyer's expense, shall promptly obtain an Abstract of Title to the Real Estate continued through the date of acceptance of this offer, and deliver it to Buyer (or Buyer's attorney, as directed by Buyer) for examination. The Abstract of Title shall show merchantable title in Sellers in conformity with this agreement, Iowa law and Title Standards of the Iowa State Bar Association. The Abstract of Title shall become the property of the Buyer when the purchase price is paid in full. Sellers shall pay the costs of any additional abstracting and title work due to any act or omission of Sellers, including transfers by or the death of Sellers or their assignees.

11. DEED. Upon Buyer's payment of the purchase price as provided herein, Sellers shall convey the Real Estate to Buyer (or its assigns) by general warranty deed, free and clear of all liens, restrictions, and encumbrances except as provided in subparagraphs 1a. through 1c, above.

12. JOINT TENANCY IN PROCEEDS AND IN REAL ESTATE. If Sellers, immediately preceding acceptance of this offer, hold title to the Real Estate in joint tenancy with full right of survivorship, and the joint tenancy is not later destroyed by operation of law or by acts of the Sellers, then the proceeds of this sale, and any continuing or recaptured rights of Sellers in the Real Estate, shall belong to Sellers as joint tenants with full rights of survivorship and not as tenants in common; and Buyer, in the event of the death of either Seller, agree to pay any balance of the price due Sellers under this agreement to the surviving Seller and to accept the general warranty deed from the surviving Seller consistent with paragraph 11.

13. JOINDER BY SELLER'S SPOUSE. Seller's spouse, if not a titleholder immediately preceding acceptance of this offer, executes this agreement only for the purpose of relinquishing all rights of dower, homestead and distributive shares or in

compliance with Section 561.13 of the Iowa Code and agrees to execute the general warranty deed or Real Estate agreement for this purpose.

14. TIME IS OF THE ESSENCE. Time is of the essence as to this agreement.

15. REMEDIES OF THE PARTIES. If Buyer fails to timely perform this agreement, Sellers may forfeit this agreement as provided in the Iowa Code, and Sellers' sole remedy will be forfeiture of the Deposit by Buyer. If Sellers fail to timely perform this agreement, Buyer shall have the right to have all payments made, including the Deposit, returned to them. Notwithstanding the foregoing, Buyer is also entitled to utilize any and all other remedies or actions at law or in equity available to Buyer and shall be entitled to obtain judgment for costs and attorney fees as permitted by law, including the right to obtain specific performance and transfer of the general warranty deed from Sellers.

16. STATEMENT AS TO LIENS. If Buyer intends to assume or take subject to a lien on the Real Estate, Sellers shall furnish Buyer with a written statement from the holder of such lien, showing the correct balance due.

17. SUBSEQUENT CONTRACT. Any Real Estate contract for deed executed in performance of this agreement shall be on a form of the Iowa State Bar Association.

18. APPROVAL OF COURT. If the sale of the Real Estate is subject to Court approval, the fiduciary shall promptly submit this agreement for such approval. If this agreement is not so approved, it shall be void.

19. BINDING EFFECT. This agreement shall apply to and bind the successors in interest of the parties.

20. CONSTRUCTION. Words and phrases shall be construed as in the singular or plural number, and as masculine, feminine or neuter gender, according to the context.

21. TIME FOR ACCEPTANCE. If this offer is not accepted by Sellers on or before December 31, ²⁰¹⁷~~2016~~, it shall become void and the Deposit and any other payments made by Buyer shall be repaid to the Buyer.

22. FACSIMILE SIGNATURES. This agreement is binding on any parties signing this agreement by facsimile signature as if said signatures were an original, and said signature is admissible in any court or other tribunal as if it were an original.

23. OTHER PROVISIONS.

Buyer shall pay all surveying costs.

This offer is subject to Buyer obtaining a manure management plan and all required governmental approvals and permits and if applicable, site approval from a construction engineer; and Seller shall grant Buyer immediate access for surveying, site layout and construction of facility once all applicable permits are obtained.

If applicable, Seller shall grant to Buyer a permanent easement, for the life of the hog facility, to place the well for the facility on adjacent property owned by Seller so that the well is at least 200 feet away from the facility. The placement of the well site location will be mutually agreed upon by the parties.

Dated: 7-5-16

BUYER:
Brookglade Farms, LLC

By: [Signature], Mgr.

THIS OFFER IS ACCEPTED _____, 20__.

x By Martin Zaugg Pres
Seller
MARTIN ZAUGG FARM INC

Seller

Manure Management Plan Form

Operation Information

RECEIVED Page 1
FEB 28 2017
IOWA DNR
FIELD OFFICE 3

Instructions: Complete this form for your animal feeding operation. Endnotes are provided on pages 4-6. 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 nutrient management plan 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.

Brookglade Farms, LLC by: Keith Kratchmer Keith Kratchmer Date: 2/23/2017
(Signature) (Print Name)

Name of operation: Wacousta, Finisher Farm Facility ID No. 63826

Location of the operation: 1247 160th Street
(911 Address)

* An example of a legal description is available on page 3 of the Introduction and Instructions.

Bradgate IA 50520
(Town) (State) (Zip Code)

SE 1/4 1/4 of the SW 1/4 1/4 of Sec 33 T T93N R R30W Wacousta Humboldt
(1/4 1/4) (1/4) (Section) (Tier) (Range) (Township Name) (County)

Owner and Contacts of the animal feeding operation:

Owner Brookglade Farms, LLC Phone 641-648-5067

Address 824 Brooks Road, Iowa Falls, IA 50126

Email (optional) _____ Cell phone (optional) _____

Contact person (if different than owner) Keith Kratchmer Phone 641-648-4479

Address 824 Brooks Road, Iowa Falls, IA 50126

Email (optional) _____ Cell phone (optional) _____

Contract Company _____ Phone _____

Address _____

This nutrient management plan is for: (check one)

- existing operation, not expanding existing operation, expanding
 existing operation, new owner new operation

Construction and Expansion Dates: June 1, 2005 date of initial construction
_____ and date(s) of all expansion(s)

Table 1. Information about livestock production and nutrient management system

1 Animal Type/Production phase ^a	2 Max Number of Animals Confined (head)	3 Manure Storage Structure ^b	4		6 gal/space/day or ton/space/yr ^d	7 Days/yr Facility Occupied	8 Annual Manure Production ^e (gal or tons)
			N ^c lb/1000 gal / lb/ton	P ₂ O ₅ ^c lb/1000 gal / lb/ton			
Wean/Finish	5,000	Indoor Formed	47.00	39.00	0.70	365	1,277,500
Total Gallons							1,277,500
Total Tons							

Estimate of Annual Animal Production^f: 10,000 animals/year

Source of Nutrient Content Data (columns 4, 5): standard tables, analysis of manure samples, other:

The nutrient concentrations are based on Iowa Select Farms standards, which have been approved by the IDNR. Actual values will be used for application rates.

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. Endnotes are given on pages 4-6.

Management Identification (Mgt ID)^g: Corn-Corn-Beans
(Identify this application scenario by letter, refer to endnote g)

Method used to determine optimum yield^h: County Average + 10% Timing of Application: Spring, Fall(Summer)

Method of Applicationⁱ: Direct Injection with Tank Application Loss Factorⁱ: 0.9800

If spray irrigation is used, identify method^j: _____

Table 2. Manure Nutrient Concentration

Manure Nutrient Content (lbs/1000gal or lbs/ton)				
Manure Storage Structure(s) ^k		Indoor Formed		
Total N	47.00	P ₂ O ₅		39.00
% TN available 1st year ^l	100	% 2 nd year		% 3 rd year
Available N 1 st year ^m	46.1	2 nd year ⁿ		3 rd year ^o

Table 3. Crop Usage Rates^p

(lbs/bu or lbs/ton)	N	P ₂ O ₅
Corn	1.20	0.32
Soybean	3.8	0.72
Alfalfa	50	13

* Use blank space above to add crop not listed.

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

		Corn	Beans	Corn	Corn	
1	Applying Manure For (crop to be grown) ^q	Corn	Beans	Corn	Corn	
2	Optimum Crop Yield ^h	bu or ton/acre	188.9	53.2	188.9	188.9
3	P ₂ O ₅ removed with crop by harvest ^r	lb/acre	60.4	38.3	60.4	60.4
4	Crop N utilization ^s	lb/acre	226.7	202.2	226.7	226.7
5a	Legume N credit ^t	lb/acre	0.0	0.0	50.0	0.0
5b	Commercial N planned ^u	lb/acre	0	0	0	0
5c	Manure N carryover credit ^v	lb/acre	0	0	0	0
6	Remaining crop N need ^w	lb/acre	226.7	100.0	176.7	226.7
7	Manure rate to supply remaining N ^x	gal/acre or ton/acre	4,917.1	2,169.2	3,832.5	4,917.1
8	P ₂ O ₅ applied with N-based rate ^y	lb/acre	191.8	84.6	149.5	191.8

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

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

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

13	Planned Manure Application Rate ^{dd}	gal/acre or ton/acre	4,917.1	2,169.2	3,832.5	4,917.1
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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.

(>5-10) Until December 31, 2008, P-based manure management while adopting practices to reduce P index to 5 or below.

(>10) No manure application until practices are adopted to reduce P index to 5 or below.

Manure Management Plan Form
Year by Year Nutrient Management Plan Summary**Page 3**

Instructions: Complete this form for each of the next five growing seasons, to demonstrate sufficient land base to apply manure over multiple crop years. If this page is identical for multiple years (e.g. every other year), submit only once for the identical years, and indicate which years the form represents. Endnotes are given on pages 4-6.

Crop Year(s): _____ 2017

1 Field Designation ^{ee}	2 Field Location Township Name _____ T _____ S _____ R _____ County Name _____		3 Mgt ID†	4 Planned Crop	5 Acres receiving manure ^{gg}	6 Own, rent, or agreement (include length of agreement) ^{hh}	7 P Index Value	8 HEL (Yes or No) ^{jj}	9 Planned Application ^{kk}		11 Correct Soil Test for P ^{ll} (Yes or No)
									Gal or ton/acre	Gal or ton/field	
F317-01a	SW ¼, 33, T93N-R30W, Humboldt		CCB	Corn	150.7	Easement	0.11	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	4,917.1	741,012	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
F317-02a	W ½ of NW ¼, 5, T92N-R30W, Humboldt		CCB	Corn	83.1	Easement	0.11	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	4,917.1	408,614	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
F317-03a	N ½ of NE ¼, 5, T92N-R30W, Humboldt		CCB	Corn	85.3	Easement	0.10	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3,832.5	326,915	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
F317-05a	NE ¼, 28, T93N-R30W, Humboldt		CCB	Corn	148.7	Easement	0.14	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3,832.5	569,898	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
								<input type="checkbox"/> Yes <input type="checkbox"/> No			<input type="checkbox"/> Yes <input type="checkbox"/> No
								<input type="checkbox"/> Yes <input type="checkbox"/> No			<input type="checkbox"/> Yes <input type="checkbox"/> No
								<input type="checkbox"/> Yes <input type="checkbox"/> No			<input type="checkbox"/> Yes <input type="checkbox"/> No
								<input type="checkbox"/> Yes <input type="checkbox"/> No			<input type="checkbox"/> Yes <input type="checkbox"/> No
								<input type="checkbox"/> Yes <input type="checkbox"/> No			<input type="checkbox"/> Yes <input type="checkbox"/> No
								<input type="checkbox"/> Yes <input type="checkbox"/> No			<input type="checkbox"/> Yes <input type="checkbox"/> No
								<input type="checkbox"/> Yes <input type="checkbox"/> No			<input type="checkbox"/> Yes <input type="checkbox"/> No
								<input type="checkbox"/> Yes <input type="checkbox"/> No			<input type="checkbox"/> Yes <input type="checkbox"/> No
								<input type="checkbox"/> Yes <input type="checkbox"/> No			<input type="checkbox"/> Yes <input type="checkbox"/> No

Total acres available for manure application 467.8

Total Gallons that could be applied

Total Tons that could be applied

Manure Management Plan Form

Year by Year Nutrient Management Plan Summary

Instructions: Complete this form for each of the next five growing seasons, to demonstrate sufficient land base to apply manure over multiple crop years. If this page is identical for multiple years (e.g. every other year), submit only once for the identical years, and indicate which years the form represents. Endnotes are given on pages 4-6.

Crop Year(s): _____ 2018 _____

1	2		3	4	5	6	7	8	9		10	11
Field Designation ^{ee}	Field Location ^{1/4} of the _____ 1/4 Sec _____ T _____ R _____ Township Name _____ County Name _____		Mgt ID ^{ff}	Planned Crop	Acres receiving manure ^{gg}	Own, rent, or agreement (include length of agreement) ^{hh}	P Index Value ⁱⁱ	HEL (Yes or No) ^{jj}	Planned Application Gal or ton/acre	Gal or ton/field	Correct Soil Test for P ^{ll} (Yes or No)	
F317-01a	SW ¼, 33, T93N-R30W, Humboldt		CCB	Beans	150.7	Easement	0.11	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2,169.2	326,898	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
F317-02a	W ½ of NW ¼, 5, T92N-R30W, Humboldt		CCB	Beans	83.1	Easement	0.11	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2,169.2	180,260	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
F317-03a	N ½ of NE ¼, 5, T92N-R30W, Humboldt		CCB	Corn	85.3	Easement	0.10	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	4,917.1	419,432	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
F317-05a	NE ¼, 28, T93N-R30W, Humboldt		CCB	Corn	148.7	Easement	0.14	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	4,917.1	731,178	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> Yes <input type="checkbox"/> No			<input type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> Yes <input type="checkbox"/> No			<input type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> Yes <input type="checkbox"/> No			<input type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> Yes <input type="checkbox"/> No			<input type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> Yes <input type="checkbox"/> No			<input type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> Yes <input type="checkbox"/> No			<input type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> Yes <input type="checkbox"/> No			<input type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> Yes <input type="checkbox"/> No			<input type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> Yes <input type="checkbox"/> No			<input type="checkbox"/> Yes <input type="checkbox"/> No	
					467.8						1,657,768	
Total acres available for manure application						Total Gallons that could be applied						
						Total Tons that could be applied						

Manure Management Plan Form
Year by Year Nutrient Management Plan Summary

Instructions: Complete this form for each of the next five growing seasons, to demonstrate sufficient land base to apply manure over multiple crop years. If this page is identical for multiple years (e.g. every other year), submit only once for the identical years, and indicate which years the form represents. Endnotes are given on pages 4-6.

Crop Year(s): _____ 2019 _____

1 Field Designation ^{ee}	2 Field Location Township Name _____ 1/4 Sec _____ T _____ R _____ County Name _____		3 Mgt ID ^f	4 Planned Crop	5 Acres receiving manure ^{gg}	6 Own, rent, or agreement (include length of agreement)	7 P Index Value	8 HEL (Yes or No) ^h	9 Planned Application ^{kk}		10 Gal or ton/field	11 Correct Soil Test for P ^{ll} (Yes or No)
	Gal or ton/acre	Gal or ton/field										
F317-01a	SW 1/4, 33, T93N-R30W, Humboldt		CCB	Corn	150.7	Easement	0.11	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	3,832.5	577,563	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
F317-02a	W 1/2 of NW 1/4, 5, T92N-R30W, Humboldt		CCB	Corn	83.1	Easement	0.11	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	3,832.5	318,484	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
F317-03a	N 1/2 of NE 1/4, 5, T92N-R30W, Humboldt		CCB	Beans	85.3	Easement	0.10	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2,169.2	185,033	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
F317-05a	NE 1/4, 28, T93N-R30W, Humboldt		CCB	Beans	148.7	Easement	0.14	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2,169.2	322,560	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> Yes <input type="checkbox"/> No			<input type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> Yes <input type="checkbox"/> No			<input type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> Yes <input type="checkbox"/> No			<input type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> Yes <input type="checkbox"/> No			<input type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> Yes <input type="checkbox"/> No			<input type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> Yes <input type="checkbox"/> No			<input type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> Yes <input type="checkbox"/> No			<input type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> Yes <input type="checkbox"/> No			<input type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> Yes <input type="checkbox"/> No			<input type="checkbox"/> Yes <input type="checkbox"/> No	
					467.8						1,403,639	
Total acres available for manure application						Total Gallons that could be applied						
						Total Tons that could be applied						

Manure Management Plan Form Year by Year Nutrient Management Plan Summary

Instructions: Complete this form for each of the next five growing seasons, to demonstrate sufficient land base to apply manure over multiple crop years. If this page is identical for multiple years (e.g. every other year), submit only once for the identical years, and indicate which years the form represents. Endnotes are given on pages 4-6.

Crop Year(s): 2020

1 Field Designation ^{ee}	2 Field Location <u> </u> 1/4 Sec <u> </u> T <u> </u> R <u> </u> County Name Township Name	3 Mgt ID ⁱⁱ	4 Planned Crop	5 Acres receiving manure ^{gg}	6 Own, rent, or agreement (include length of agreement) ^{hh}	7 P Index Value ^{jj}	8 HEL (Yes or No) ^{jj}		9 Planned Application ^{kk}		10 Gal or ton/field	11 Correct Soil Test for P ^{ll} (Yes or No)
							Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Gal or ton/acre	Gal or ton/field		
F317-01a	SW 1/4, 33, T93N-R30W, Humboldt	CCB	Corn	150.7	Easement	0.11	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	4,917.1	741,012		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
F317-02a	W 1/4 of NW 1/4, 5, T92N-R30W, Humboldt	CCB	Corn	83.1	Easement	0.11	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	4,917.1	408,614		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
F317-03a	N 1/2 of NE 1/4, 5, T92N-R30W, Humboldt	CCB	Corn	85.3	Easement	0.10	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	3,832.5	326,915		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
F317-05a	NE 1/4, 28, T93N-R30W, Humboldt	CCB	Corn	148.7	Easement	0.14	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	3,832.5	569,898		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
							<input type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No	
							<input type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No	
							<input type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No	
							<input type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No	
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							<input type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No	
							<input type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No	
							<input type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No	
Total acres available for manure application				467.8								
Total Gallons that could be applied												
Total Tons that could be applied												
Total Gallons that could be applied										2,046,440		

Manure Management Plan Form

Year by Year Nutrient Management Plan Summary

Page 3

Instructions: Complete this form for each of the next five growing seasons, to demonstrate sufficient land base to apply manure over multiple crop years. If this page is identical for multiple years (e.g. every other year), submit only once for the identical years, and indicate which years the form represents. Endnotes are given on pages 4-6.

Crop Year(s): _____ 2021

1	2	3	4	5	6	7	8	9	10	11
Field Designation ^{ee}	Field Location Township Name _____ T _____ R _____ County Name _____	Mgt ID ^f	Planned Crop	Acres receiving manure ^{gg}	Own, rent, or agreement (include length of agreement) ^{hh}	P Index Value ⁱⁱ	HEL (Yes or No) ^{jj}	Planned Application ^{kk} Gal or ton/acre	Application ^{kk} Gal or ton/field	Correct Soil Test for P ^{ll} (Yes or No)
F317-01a	SW ¼, 33, T93N-R30W, Humboldt	CCB	Beans	150.7	Easement	0.11	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2,169.2	326,898	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
F317-02a	W ½ of NW ¼, 5, T92N-R30W, Humboldt	CCB	Beans	83.1	Easement	0.11	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2,169.2	180,260	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
F317-03a	N ½ of NE ¼, 5, T92N-R30W, Humboldt	CCB	Corn	85.3	Easement	0.10	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	4,917.1	419,432	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
F317-05a	NE ¼, 28, T93N-R30W, Humboldt	CCB	Corn	148.7	Easement	0.14	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	4,917.1	731,178	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
							<input type="checkbox"/> Yes <input type="checkbox"/> No			<input type="checkbox"/> Yes <input type="checkbox"/> No
							<input type="checkbox"/> Yes <input type="checkbox"/> No			<input type="checkbox"/> Yes <input type="checkbox"/> No
							<input type="checkbox"/> Yes <input type="checkbox"/> No			<input type="checkbox"/> Yes <input type="checkbox"/> No
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							<input type="checkbox"/> Yes <input type="checkbox"/> No			<input type="checkbox"/> Yes <input type="checkbox"/> No
							<input type="checkbox"/> Yes <input type="checkbox"/> No			<input type="checkbox"/> Yes <input type="checkbox"/> No
							<input type="checkbox"/> Yes <input type="checkbox"/> No			<input type="checkbox"/> Yes <input type="checkbox"/> No
							<input type="checkbox"/> Yes <input type="checkbox"/> No			<input type="checkbox"/> Yes <input type="checkbox"/> No
							<input type="checkbox"/> Yes <input type="checkbox"/> No			<input type="checkbox"/> Yes <input type="checkbox"/> No
Total acres available for manure application				457.8				Total Gallons that could be applied		1,657,768
Total acres available for manure application							Total Gallons that could be applied			

HIGHWAY AND TRANSPORTATION MAP
HUMBOLDT COUNTY
 IOWA



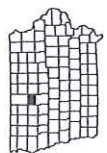
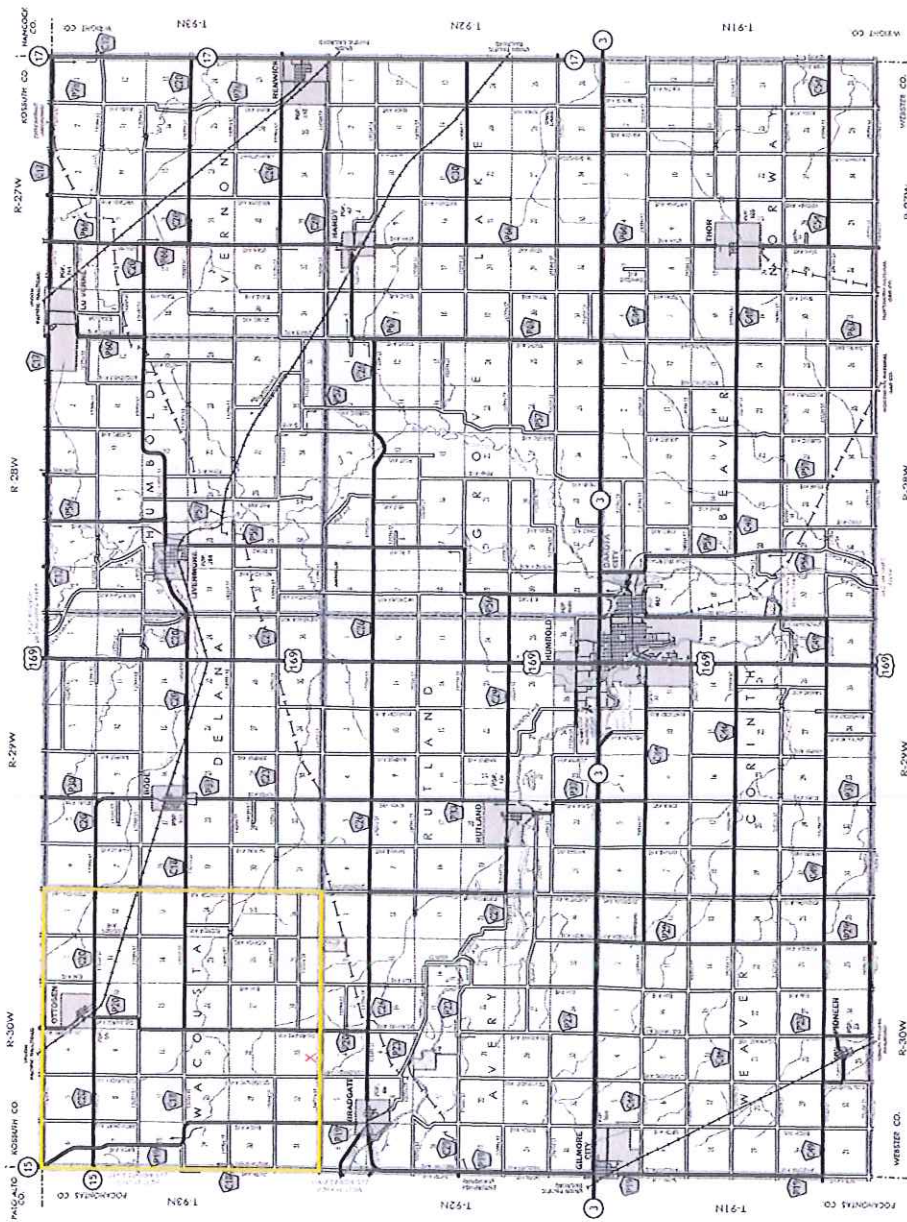
Prepared By
 Iowa Department
 of Transportation

OFFICE OF STATUS PLANNING
 P.O. BOX 103
 DES MOINES, IOWA 50319-0103
 WWW.IOWADOT.GOV/IAPS
 In Cooperation With
 United States
 Department of Transportation
 JANUARY 1, 2013



LEGEND

	TRUNK HIGHWAY
	STATE HIGHWAY
	COUNTY HIGHWAY
	AIRPORT
	INTERSTATE HIGHWAY
	UNITED STATES HIGHWAY
	STATE BOUNDARY
	COUNTY BOUNDARY
	TOWNSHIP BOUNDARY
	PRECINCT BOUNDARY
	TOWNSHIP BOUNDARY
	PRECINCT BOUNDARY
	WATERWAY
	WATERWAY
	CITY BOUNDARY
	TOWNSHIP BOUNDARY
	PRECINCT BOUNDARY
	WETLANDS
	WETLANDS
	WETLANDS
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	WETLANDS
	WETLANDS
	WETLANDS



P.A.S.S.



Pocahontas Aerial Spray Service, LLC

Office 712-335-4860

Cell 712-299-3311

pokyaerial@gmail.com

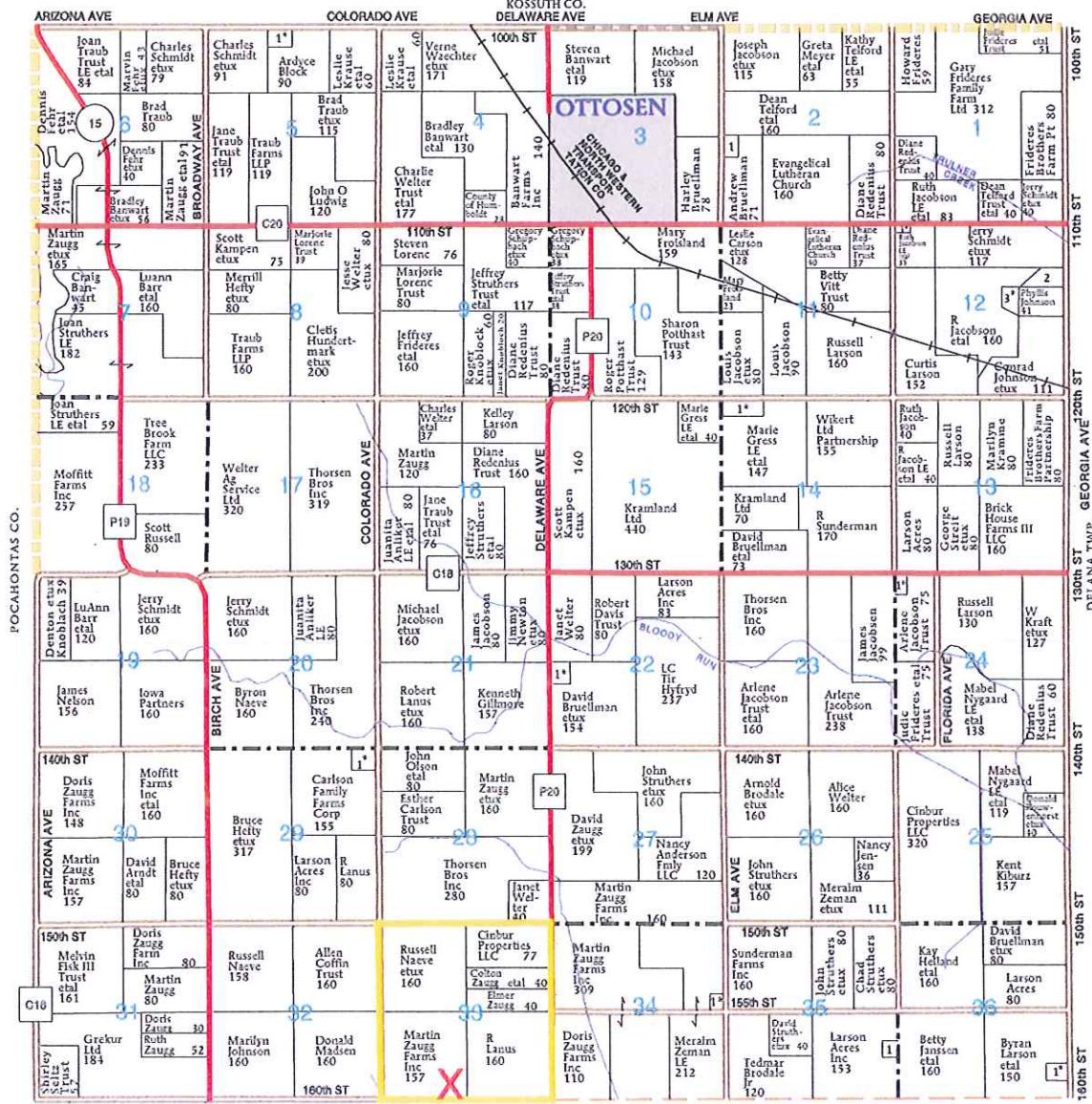
www.spraymyfield.com

23240 510th St., Hangar 5-C • Pocahontas, IA 50574

T-93-N

WACOUSTA PLAT

R-30-W



- WACOUSTA TOWNSHIP**
- SECTION 2**
1. Terwilliger, Douglas 6
- SECTION 5**
1. Schmidt, Paul 10
- SECTION 12**
1. Jacobson, Paul 5
 2. Jacobson, Ralph 14
 3. Johnson, Conrad 8

- SECTION 14**
1. Gress, Cloyce 13
- SECTION 22**
1. Brodale, Arnold 6
- SECTION 24**
1. Streit, George 6
- SECTION 29**
1. Weler Jr, Daan 5

- SECTION 34**
1. Zeman, Richard 6
- SECTION 35**
1. Chang, Maria 5
- SECTION 36**
1. Satern, Darrell 10

P.A.S.S.



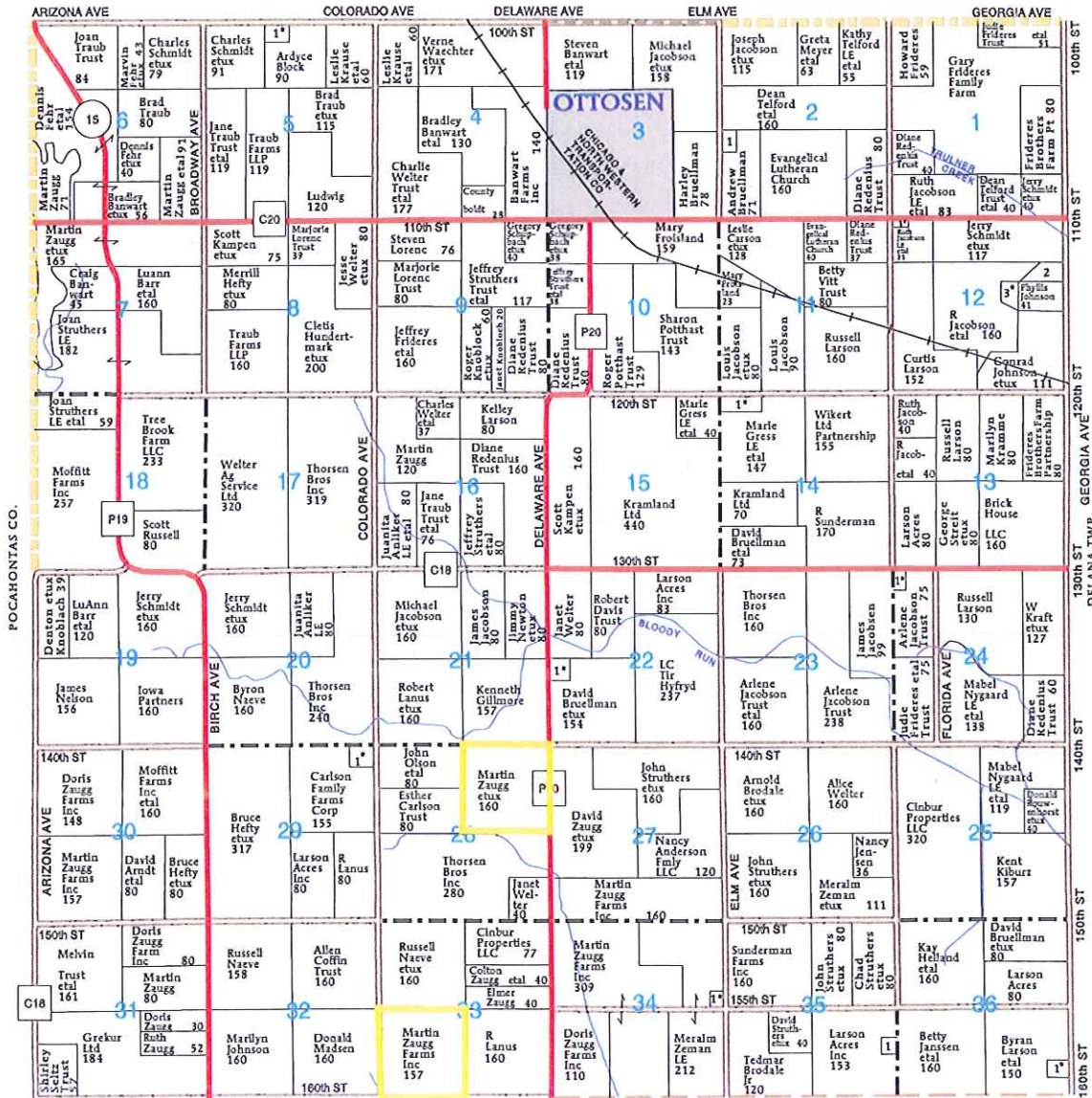
pokyaerial@gmail.com
www.spraymyfield.com

T-93-N

(Landowners)



R-30-W





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316 Hwy. 3 East - GOLDFIELD, IA PH: 515-825-3476 OR 800-825-3476

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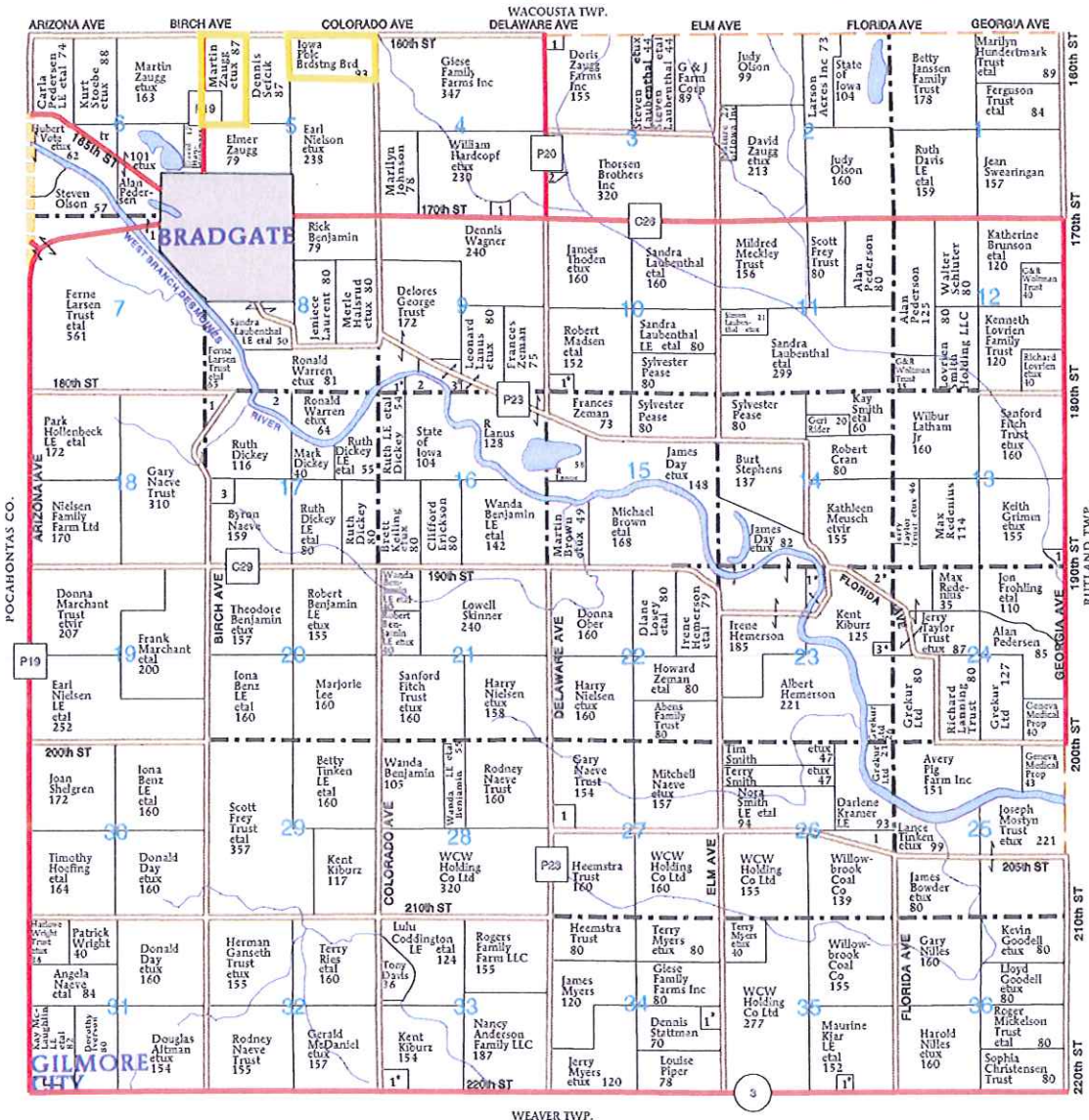


IMT INSURANCE COMPANY
A Mutual Company
P.O. Box 1155
Des Moines, Iowa 50306-1155

T-92-N

AVERY PLAT

R-30-W



AVERY TOWNSHIP

SECTION 3

1. Nature of Iowa Inc 6
2. Nature of Iowa Inc 6

SECTION 4

1. O'Donnell, Dennis 5

SECTION 7

1. State of Iowa 32

SECTION 9

1. Lanus, Robert 10

SECTION 10

1. Warren, Ronald 24

SECTION 13

1. Laubenthal, Adam 8

SECTION 17

1. Collins, Janice 5

SECTION 27

1. Naeve Trust, Gary 10
2. Dickey, Mark 8
3. Naeve, Mitch 7

SECTION 18

1. Naeve, Mark 8

SECTION 23

1. Brown, Michael 10
2. Meusch, Kathleen 18

SECTION 26

3. Cleveland, Timothy 12

SECTION 28

1. Goodell, Dennis 14

SECTION 27

1. D & S Swina LLC 6

SECTION 33

1. Jones, John 6

SECTION 34

1. Carpenter, Micheal 10

SECTION 35

1. Friedl, Brian 8



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 P Index	
	Gross Erosion	Sediment Trap Factor	SDR Factor	Buffer Factor	Enrichment Factor	STP Factor	Erosion PI	RCN Factor	STP Factor	P App Factor	Runoff PI	Flow Factor		STP Factor
F317-01a --	1.20	1.00	0.06	1.00	1.10	1.00	0.08	1.24	0.00	0.02	0.03	0.00	0.00	0.00
F317-02a --	1.20	1.00	0.07	1.00	1.10	1.00	0.09	1.24	0.00	0.02	0.03	0.00	0.00	0.00
F317-03a --	1.20	1.00	0.06	1.00	1.10	1.00	0.07	1.24	0.00	0.02	0.03	0.00	0.00	0.00
F317-05a --	1.20	1.00	0.09	1.00	1.10	1.00	0.11	1.24	0.00	0.02	0.03	0.00	0.00	0.00



RUSLE2 Profile Erosion Calculation Record

Info:

File: profiles\Finishers\F317\F317-01a

Inputs:

Location: USA\Iowa\Humboldt County

Soil: Humboldt County, Iowa\138B CLARION LOAM, 2 TO 5 PERCENT SLOPES\Clarion loam 85%

Slope length (horiz): 98 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\ISF\CCB - Fall manure, 30-inch rows, FC st pt, Sfcult	vegetations\Corn, grain	bushels	223.00
managements\CMZ 04\c.Other Local Mgt Records\ISF\CCB - Fall manure, 30-inch rows, FC st pt, Sfcult	vegetations\Corn, grain	bushels	223.00
managements\CMZ 04\c.Other Local Mgt Records\ISF\CCB - Fall manure, 30-inch rows, FC st pt, Sfcult	vegetations\Soybean, mw 30 in rows	bu	65.000

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

Outputs:

T value: 5.0 t/ac/yr
 Soil loss erod. portion: 1.2 t/ac/yr
 Detachment on slope: 1.2 t/ac/yr
 Soil loss for cons. plan: 1.2 t/ac/yr
 Sediment delivery: 1.2 t/ac/yr

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

<i>Date</i>	<i>Operation</i>	<i>Vegetation</i>	<i>Surf. res. cov. after op, %</i>
11/10/0	Manure injector, liquid high disturb.30 inch		77
4/25/1	Cultivator, field 6-12 in sweeps		55
5/1/1	Sprayer, pre-emergence		52



RUSLE2 Profile Erosion Calculation Record

Info:

File: profiles\Finishers\F317\F317-02a

Inputs:

Location: USA\Iowa\Humboldt County

Soil: Humboldt County, Iowa\138B CLARION LOAM, 2 TO 5 PERCENT SLOPES\Clarion loam 85%

Slope length (horiz): 98 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\ISF\CCB - Fall manure, 30-inch rows, FC st pt, Sfcult	vegetations\Corn, grain	bushels	223.00
managements\CMZ 04\c.Other Local Mgt Records\ISF\CCB - Fall manure, 30-inch rows, FC st pt, Sfcult	vegetations\Corn, grain	bushels	223.00
managements\CMZ 04\c.Other Local Mgt Records\ISF\CCB - Fall manure, 30-inch rows, FC st pt, Sfcult	vegetations\Soybean, mw 30 in rows	bu	65.000

Contouring: a. rows up-and-down hill

Strips/barriers: (none)

Diversion/terrace, sediment basin: (none)

Subsurface drainage: (none)

Adjust res. burial level: Normal res. burial

Outputs:

T value: 5.0 t/ac/yr

Soil loss erod. portion: 1.2 t/ac/yr

Detachment on slope: 1.2 t/ac/yr

Soil loss for cons. plan: 1.2 t/ac/yr

Sediment delivery: 1.2 t/ac/yr

Crit. slope length: 98 ft

Surf. cover after planting: -- %

Avg. ann. forage harvest: 0 lb/ac

<i>Date</i>	<i>Operation</i>	<i>Vegetation</i>	<i>Surf. res. cov. after op, %</i>
11/10/0	Manure injector, liquid high disturb.30 inch		77
4/25/1	Cultivator, field 6-12 in sweeps		55
5/1/1	Sprayer, pre-emergence		52

5/1/1	Planter, double disk opnr	Corn, grain	52
6/7/1	Sprayer, post emergence		45
10/20/1	Harvest, killing crop 50pct standing stubble		90
11/10/1	Manure injector, liquid high disturb.30 inch		90
4/25/2	Cultivator, field 6-12 in sweeps		81
5/1/2	Sprayer, pre-emergence		82
5/1/2	Planter, double disk opnr	Corn, grain	82
6/7/2	Sprayer, post emergence		78
10/20/2	Harvest, killing crop 50pct standing stubble		93
11/10/2	Manure injector, liquid high disturb.30 inch		92
4/25/3	Cultivator, field 6-12 in sweeps		83
5/1/3	Sprayer, post emergence		85
5/15/3	Planter, double disk opnr	Soybean, mw 30 in rows	84
6/7/3	Sprayer, post emergence		82
8/1/3	Sprayer, insecticide post emergence		60
10/10/3	Harvest, killing crop 50pct standing stubble		90



RUSLE2 Profile Erosion Calculation Record

Info:

File: profiles\Finishers\F317\F317-03a

Inputs:

Location: USA\Iowa\Humboldt County

Soil: Humboldt County, Iowa\138B CLARION LOAM, 2 TO 5 PERCENT SLOPES\Clarion loam 85%

Slope length (horiz): 98 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\ISF\CCB - Fall manure, 30-inch rows, FC st pt, Sfcult	vegetations\Corn, grain	bushels	223.00
managements\CMZ 04\c.Other Local Mgt Records\ISF\CCB - Fall manure, 30-inch rows, FC st pt, Sfcult	vegetations\Corn, grain	bushels	223.00
managements\CMZ 04\c.Other Local Mgt Records\ISF\CCB - Fall manure, 30-inch rows, FC st pt, Sfcult	vegetations\Soybean, mw 30 in rows	bu	65.000

Contouring: a. rows up-and-down hill

Strips/barriers: (none)

Diversion/terrace, sediment basin: (none)

Subsurface drainage: (none)

Adjust res. burial level: Normal res. burial

Outputs:

T value: 5.0 t/ac/yr

Soil loss erod. portion: 1.2 t/ac/yr

Detachment on slope: 1.2 t/ac/yr

Soil loss for cons. plan: 1.2 t/ac/yr

Sediment delivery: 1.2 t/ac/yr

Crit. slope length: 98 ft

Surf. cover after planting: -- %

Avg. ann. forage harvest: 0 lb/ac

<i>Date</i>	<i>Operation</i>	<i>Vegetation</i>	<i>Surf. res. cov. after op, %</i>
11/10/0	Manure injector, liquid high disturb.30 inch		77
4/25/1	Cultivator, field 6-12 in sweeps		55
5/1/1	Sprayer, pre-emergence		52



RUSLE2 Profile Erosion Calculation Record

Info:

File: profiles\Finishers\F317\F317-05a

Inputs:

Location: USA\Iowa\Humboldt County

Soil: Humboldt County, Iowa\138B CLARION LOAM, 2 TO 5 PERCENT SLOPES\Clarion loam 85%

Slope length (horiz): 98 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\ISF\CCB - Fall manure, 30-inch rows, FC st pt, Sfcult	vegetations\Corn, grain	bushels	223.00
managements\CMZ 04\c.Other Local Mgt Records\ISF\CCB - Fall manure, 30-inch rows, FC st pt, Sfcult	vegetations\Corn, grain	bushels	223.00
managements\CMZ 04\c.Other Local Mgt Records\ISF\CCB - Fall manure, 30-inch rows, FC st pt, Sfcult	vegetations\Soybean, mw 30 in rows	bu	65.000

Contouring: a. rows up-and-down hill

Strips/barriers: (none)

Diversion/terrace, sediment basin: (none)

Subsurface drainage: (none)

Adjust res. burial level: Normal res. burial

Outputs:

T value: 5.0 t/ac/yr

Soil loss erod. portion: 1.2 t/ac/yr

Detachment on slope: 1.2 t/ac/yr

Soil loss for cons. plan: 1.2 t/ac/yr

Sediment delivery: 1.2 t/ac/yr

Crit. slope length: 98 ft

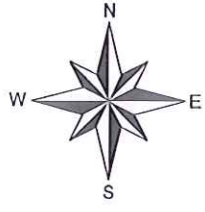
Surf. cover after planting: -- %

Avg. ann. forage harvest: 0 lb/ac

<i>Date</i>	<i>Operation</i>	<i>Vegetation</i>	<i>Surf. res. cov. after op, %</i>
11/10/0	Manure injector, liquid high disturb.30 inch		77
4/25/1	Cultivator, field 6-12 in sweeps		55
5/1/1	Sprayer, pre-emergence		52

5/1/1	Planter, double disk opnr	Corn, grain	52
6/7/1	Sprayer, post emergence		45
10/20/1	Harvest, killing crop 50pct standing stubble		90
11/10/1	Manure injector, liquid high disturb.30 inch		90
4/25/2	Cultivator, field 6-12 in sweeps		81
5/1/2	Sprayer, pre-emergence		82
5/1/2	Planter, double disk opnr	Corn, grain	82
6/7/2	Sprayer, post emergence		78
10/20/2	Harvest, killing crop 50pct standing stubble		93
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5/1/3	Sprayer, post emergence		85
5/15/3	Planter, double disk opnr	Soybean, mw 30 in rows	84
6/7/3	Sprayer, post emergence		82
8/1/3	Sprayer, insecticide post emergence		60
10/10/3	Harvest, killing crop 50pct standing stubble		90

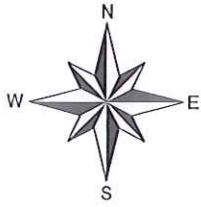
Humboldt County
T93N-R30W
Section 33
Field ID: F317-01



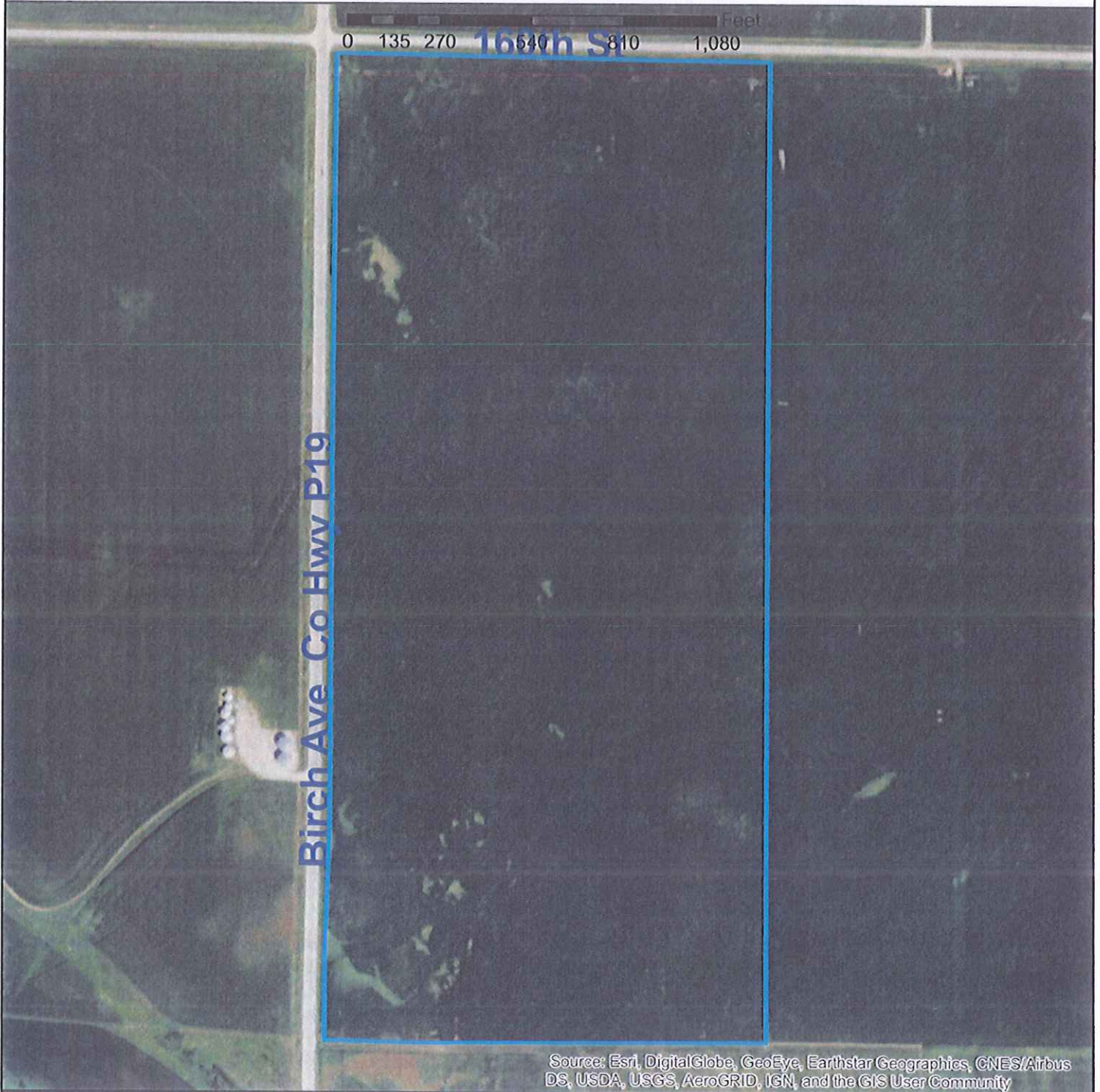
Colorado Ave

160th St

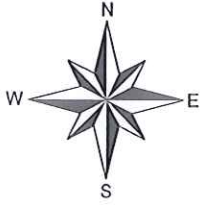
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



Humboldt County
T92N-R30W
Section 5
Field ID: F317-02



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



Humboldt County
T92N-R30W
Section 5
Field ID: F317-03

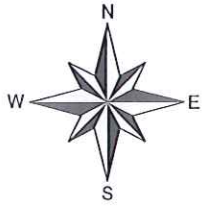


0 120 240 480 720 960 Feet

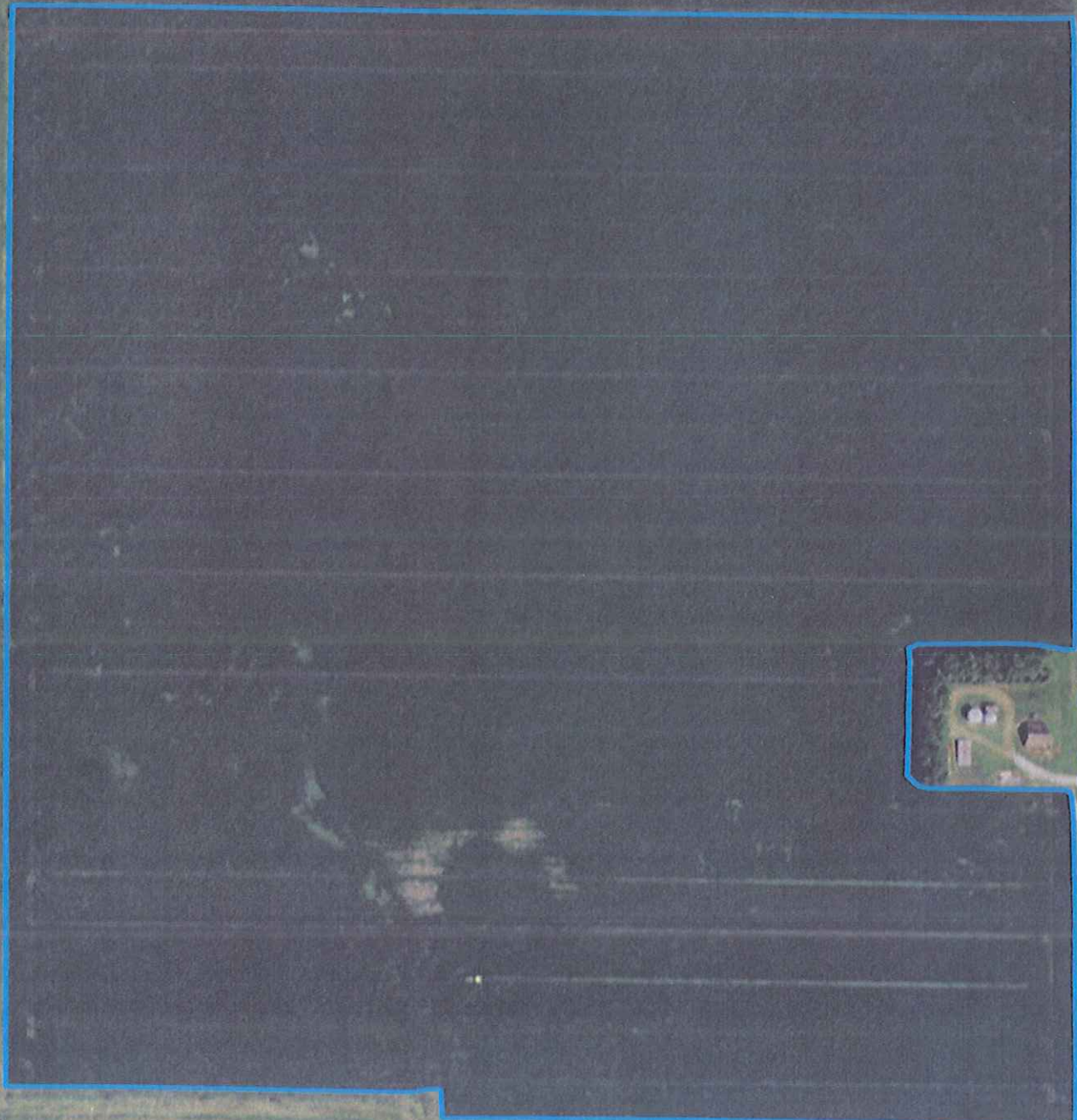
160th St

Colorado Ave

Humboldt County
T93N-R30W
Section 28
Field ID: F317-05



0 125 250 500 750 1,000 Feet



Co Hwy P20 Delaware Ave

F371-01
F371-02

SECRET

INSTRUMENT NO. 052407
LINDA FORT
HUMBOLDT CO. RECORDER

OCT 31 2005

AT 4:04 PM
RECORDING FEE \$ 22.00 pd.
AUDITOR'S TRANSFER FEE \$

Prepared by and return to: Michelle Kutschat, P.O. Box 400, Iowa Falls, IA 50126 Telephone: 641-648-4479

MANURE EASEMENT AGREEMENT

THIS MANURE EASEMENT AGREEMENT ("Agreement"), entered into the 6th day of APRIL, 2005, between MARTIN MCG and Doris McG, husband and wife, from WEST BEND, Iowa ("Grantor") and Brookside Farms, LLC, an Iowa limited liability company with its principal place of business in Iowa Falls, Iowa ("Grantee").

WHEREAS, Grantee or its assigns desire to apply hog manure (whether from Grantee's hog confinement facility (the "Hog Farm") or from other facilities as assigned by Grantee) on certain property of Grantor, the legal description of which has been attached hereto as Exhibit "A" ("Grantor's Land") and Grantor desires to grant an easement to Grantee for the purpose of applying manure to Grantor's Land, pursuant to the terms and conditions of this Agreement.

NOW, THEREFORE, in consideration of the mutual covenants contained herein and for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties hereto agree as follows:

1. Easement. Grantor hereby grants, bargains and conveys to Grantee an easement over, across and on Grantor's Land for the purpose of applying such manure in such amounts and at such times as provided in this Agreement, including the right to ingress and egress onto Grantor's Land. The easement provided herein for the right to apply manure to the Grantor's Land shall run with the land and bind all future titleholders to Grantor's Land. Grantor's Land consists of 520 acres on which manure can be applied by Grantee.

2. Term and Termination. This Agreement shall continue in full force and effect for an initial term of 1 YEAR years from the date hereof. At the end of any term, this Agreement shall automatically renew for an additional term of one (1) year unless either party provides notification of termination of this Agreement to the other party at least 180 days in advance of the scheduled termination date. This Agreement may not be otherwise terminated except: (a) by written agreement, signed by the parties hereto, their successors, assigns or personal representatives.

3. Testing. Grantee agrees to test the manure to be applied to Grantor's Land for nitrogen, phosphorus and potassium consistent with customary practice and, upon request, to provide to Grantor a summary of the approximate amounts of such nutrients applied to Grantor's Land as a result of any manure application under this Agreement. Grantor grants Grantee access to Grantor's Land at all reasonable times during the term of this Agreement for the purpose of soil testing as may be required by federal or state law or rule.

4. Timing of Manure Application. Grantor specifically agrees that Grantee may apply manure on Grantor's Land at such time and frequency as Grantee may reasonably determine. Grantee agrees that if crops are raised on Grantor's Land, Grantee will not apply manure on Grantor's Land during the period commencing with planting of the crop and ending at harvest of the crop. Grantor further agrees that if during the period of this Agreement, it is determined by an independent source (e.g., ISU Extension) that a buildup of nutrients or trace elements has occurred which has become significantly detrimental to crop production, Grantee will suspend the spreading of manure until the buildup has been reduced to levels not significantly detrimental to crop production; however, such suspension will not result in a termination of this Agreement.

5. Application of Manure. Grantee shall provide for all applications of manure to Grantor's Land, whether by Grantee or by third parties hired by Grantee. All environmental and conservation credits, including carbon sequestration or similar credits or benefits, which are associated with the application of manure as provided in this Agreement shall be the sole property of Grantee.

6. Warranties of Grantor. Grantor warrants that Grantor has title to and the unrestricted right to convey an easement in the Grantor's Land for the purpose of applying manure. Grantor waives all rights of dower, homestead and distributive share in and to Grantor's Land. Grantor agrees to not apply additional fertilizer to Grantor's Land if such application, when combined with the manure applied to Grantor's Land under this Agreement, would exceed the optimal fertilization for the crops grown on Grantor's Land or would cause Grantee to not be in compliance with Grantee's required nutrient or manure management plan(s).

7. Binding Effect. This Agreement shall inure to the benefit of and be binding upon the parties hereto, their respective successors, assigns and personal representatives. Without limiting any assignment rights, Grantee may assign its rights under this Agreement, in whole or in part, for such periods as Grantee may determine, to third parties desiring to apply manure to Grantor's Land.

8. Limitation of Liability. The parties hereto agree that no agent or employee of one party is an agent or employee of the other, and that any liability arising from the actions or negligence of an agent or employee of a party hereto shall be such party's sole responsibility.

9. Waiver. The failure of any party hereto to insist in any one or more instances upon performance of any term or condition of this Agreement shall not be construed as a waiver of future performance of any such term, covenant or condition, but the obligation of such party with respect thereto shall continue in full force and effect.

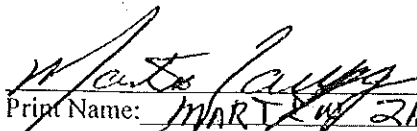
10. Governing Law. This Agreement shall be construed and governed in accordance with the laws of the State of Iowa.

11. Entire Agreement. This Agreement constitutes the entire agreement and understanding between the parties and supersedes all earlier agreements or understandings, written or oral. No amendment to this Agreement shall be effective unless it is in writing and signed by both parties and/or their respective heirs, successors, and assigns. If any provision of this Agreement is held invalid, the remaining provisions of this Agreement shall remain in full force and effect as if that invalid provision had not been included in this Agreement. Words and phrases herein shall be construed as in the singular or plural number, and as masculine, feminine or neutered gender according to the context.

12. Grantor's Spouse. In the event that Grantor's spouse is not a title holder of Grantor's Land, said spouse executes this Agreement for the sole purpose of waiving and relinquishing any rights of dower, homestead and distributive share.

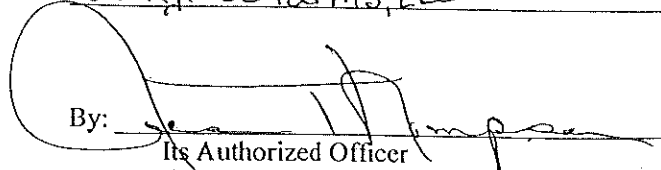
IN WITNESS WHEREOF, this Agreement has been executed as of the day and year first above written.

GRANTOR


Print Name: MARTIN ZAUGG


Print Name: DORIS ZAUGG

GRANTEE

Brookglade Farms, LLC

By: _____
Its Authorized Officer

STATE OF IOWA)
) SS:
COUNTY OF POCAHONTAS

On this 6th day of April, 2005 before me, the undersigned, a Notary Public in and for said State, personally appeared Martin Zaugg and Doris Zaugg, to me known to be the identical persons named in and who executed the foregoing instrument and acknowledged that they executed the same as their voluntary act and deed.



Jon Moberg
Notary Public in and for the State of Iowa

STATE OF IOWA)
) SS:
COUNTY OF HARDY

On this 3rd day of May, 2005, before me, the undersigned, a Notary Public in and for said State, personally appeared Jean Thompson, who is Manager of Brookglade Farms, LLC, in his/her capacity as manager, and acknowledged that he/she executed the same as the voluntary act and deed of Brookglade Farms, LLC, the same as his/her voluntary act and deed.

Michelle Kutschat 92-01-1
Notary Public in and for the State of Iowa

Exhibit "A"
Grantor's Land - Legal Description

The NE $\frac{1}{4}$ of SECTION 31, T93N -
R30W of 5th P.M.

The W $\frac{1}{2}$ NW $\frac{1}{4}$ of SECTION 5 T92N -
R30W of 5th P.M., or

The NE $\frac{1}{4}$ of SECTION 6, T92N -
R30W of 5th P.M.,

The SW $\frac{1}{4}$ of SECTION 33, T93N - R30W
of 5th P.M., or

Site No. F317Farm Name: Wacoosta

MANURE APPLICATION AGREEMENT ("Agreement") made as of the '
 day of June 1, 2009, between Brookglade Farms
) and Martin Zaugg ("Producer").

1. Land/Easement. Producer hereby granted ISF an easement or other right to apply manure to agricultural land which is either owned by Producer or which is operated by Producer under a lease which provides that Producer has the right to make all fertilization decisions for such land ("Producer's Land") and (b) the grant of easement or other right extends for a period at least as long as the term of this Agreement. If Producer leases Producer's Land, Producer will obtain written consent to this Agreement from Producer's landlord. Producer's Land consists of approximately 84.3 tillable acres in Humboldt County, Iowa, located N $\frac{1}{2}$ NE $\frac{1}{4}$ 5-92-30 Humboldt County

2. Land Application. ISF will apply manure to Producer's Land during the term of this Agreement. ISF will have an analysis of the N, P and K levels in the manure to be applied to Producer's Land performed at a certified laboratory at ISF's cost and, upon request, will provide a copy of the results of analysis to Producer. ISF does not guarantee any level of fertility from the manure, any specific nutrient content in the manure or make any representation or warranty as to the fitness of the manure for any use or purpose. It is acknowledged that Producer needs to make all final fertility decisions for Producer's Land taking into account the estimated nutrient content of the manure applied by ISF. After each application, ISF will provide to Producer: (a) records indicating the approximate number of gallons of manure applied per acre to Producer's Land and (b) records indicating the approximate number and location of the tillable acres of Producer's Land to which manure was applied.

3. Term and Termination. This Agreement shall continue in full force and effect for an initial term ending on December 31, 2009. Thereafter, this Agreement shall continue from year-to-year unless terminated by either Producer or ISF. Either party may terminate this Agreement by providing written notice of termination not later than June 30 in any year, which termination shall then be effective January 1 of the following year. This Agreement may not be otherwise terminated or amended except by written agreement, signed by the parties or their successors, assigns or personal representatives.

4. Payment. In consideration of ISF's application of manure to Producer's Land, Producer agrees to pay ISF the following (complete one):

a. For all calendar years, payment of \$ per tillable acre applied to; OR

ISF Initials RTProducer Initials MZ

b. For calendar years _____ to _____, payment of \$ _____ per tillable acre applied to, for calendar years _____ to _____, payment of \$ _____ per tillable acre applied to, and for calendar years _____ to _____, payable of \$ _____ per tillable acre applied to; OR

c. Other arrangement: Tenant pays applicator

Payment is due within 7 business days after ISF provides Producer with the application records referred to in paragraph 2. Any amount not paid when due will bear interest at the lesser of 12% or the highest rate allowed by law. Payment shall be made to "Iowa Select Farms, L.P.".

5. Other Terms. This Agreement shall run to the benefit of and be binding upon the parties and their successors, assigns or personal representatives. The parties agree that no agent or employee of one party is an agent or employee of the other and that any liability arising from the actions or negligence of an agent or employee of a party hereto shall be such party's sole responsibility. The failure of any party hereto to insist upon performance of any term or condition of this Agreement shall not be construed as a waiver of future performance of any such term or condition. The relationship of ISF and Producer is that of independent contractors only. This Agreement contains the entire understanding of the parties with respect to the subject of this Agreement and all prior agreements, understandings, representations and statements, oral or written, are merged into this Agreement. The Agreement is entered into under and is to be governed in accordance with the laws of the State of Iowa.

This Agreement has been executed as of the date and year first above written.

PRODUCER

Brookglade Farms

By: [Signature]
Its Authorized Representative

[Signature]
Signature: Martin Zaugg

MARTIN ZAUGG
Print Name: Martin Zaugg

308 8th ST SW APT 17
Address

[Signature] West Bend, IA.
Consent To By Landlord

ISF Initials Lt

Producer Initials M.Z.

MANURE APPLICATION AGREEMENT ("Agreement") made as of the 5 day of Sept, 2011, between Brookside Farms, LLC ("Grantee"), Martin Langley ("Producer").

1. Land/Easement. Producer hereby granted "Grantee" an easement or other right to apply manure to agricultural land which is either owned by Producer or which is operated by Producer under a lease which provides that Producer has the right to make all fertilization decisions, within the guidelines of the IDNR, for such land ("Producer's Land") and (b) the grant of easement or other right extends for a period at least as long as the term of this Agreement. If Producer leases Producer's Land, Producer will obtain written consent to this Agreement from Producer's landlord. Producer's Land in County, Iowa, Legally Described as: NE 1/4 Section 28 Wacousta T93-R30, Humboldt County, Iowa

Land Application. "Grantee" may apply manure to Producer's Land during the term of this Agreement. "Grantee" will have an analysis of the N, P and K levels in the manure to be applied to Producer's Land performed at a certified laboratory at "Grantee's cost. "Grantee" does not guarantee any level of fertility from the manure, any specific nutrient content in the manure or make any representation or warranty as to the fitness of the manure for any use or purpose. It is acknowledged that Producer needs to make all final fertility decisions for Producer's Land taking into account the estimated nutrient content of the manure applied by "Grantee". After each application, "Grantee" will provide to Producer: (a) records indicating the approximate nutrients applied per acre to Producer's Land and (b) records indicating the approximate number and location of the tillable acres of Producer's Land to which manure was applied.

3. Term and Termination. This Agreement shall continue in full force and effect for an initial term ending on 12/31/2012. Thereafter, this Agreement shall continue from year-to-year unless terminated by either Producer or "Grantee". Either party may terminate this Agreement by providing written notice of termination not later than June 30th in any year, which termination shall then be effective January 1st of the following year. This Agreement may not be otherwise terminated or amended except by written agreement, signed by the parties or their successors, assigns or personal representatives.

4. Payment. In consideration of Farm Owner's application of manure to Producer's Land, Producer agrees to pay Farm Owner the following: Tenant Pays all Application Cost

5. Legislative Requirements. Iowa Law requires a P-index prior to application on every parcel under easement. In order to generate a P-index the DNR requires soil

"Grantee" Initials KL

Producer Initials [Signature]

samples at a minimum of 10 acre grids or less. Producers shall supply "Grantee" with current soil samples (less than 4 yrs. old) of at least 10 acres grids or less and then again every 4 years to continue manure application on Producers ground, owned or operated.

7. Other Terms. This Agreement shall run to the benefit of and be binding upon the parties and their successors, assigns or personal representatives. The parties agree that no agent or employee of one party is an agent or employee of the other and that any liability arising from the actions or negligence of an agent or employee of a party hereto shall be such party's sole responsibility. The failure of any party hereto to insist upon performance of any term or condition of this Agreement shall not be construed as a waiver of future performance of any such term or condition. The relationship of "Grantee" and Producer is that of independent contractors only. This Agreement contains the entire understanding of the parties with respect to the subject of this Agreement and all prior agreements, understandings, representations and statements, oral or written, are merged into this Agreement. The Agreement is entered into under and is to be governed in accordance with the laws of the State of Iowa.

This Agreement has been executed as of the date and year first above written.

"Grantee"

PRODUCER

Brookslade Farms, LLC

By: *Russ Tramp*
It's Authorized Representative

X *Martin Zaugg*
Signature

Martin Zaugg
Print Name:

308 8th St SW Apt 17
West Bend, IA 50597
Address:

X _____
Consent To By Landlord

"Grantee" Initials *RT*

Producer Initials *MZ*

AG PROJECT REVIEW BELOW THRESHOLD ENGINEERING REQUIREMENTS

Facility ID # 63824
 Site Name Wacousta Finisher Farm
 Contact Name Keith Kratchmer
 County Humboldt FO # 2
 Fees Correct Yes No
 WR# 3793
 Date DNR received the application: 3-4-17
 60-day expiration date: 5-6-17
 Written request for 30-day extension(s) submitted: _____

Matrix: Yes No Matrix County: Yes No
 MMP Due Month August
 Application Received by County 2-27-17
 County Auditor Name Reggie Rife
 Address Pobiskoo Dakota city zip 50529
 Phone 515 332 1571 Fax 515 332 1738
 Public Notice Due 3/21/17 Actual 3-16-17
 Recommendation Due 4/6/17 Actual 4-4-17
 CDS Waiver _____

- A. Application Form
- Pages 1-4 of application form are properly completed (Items 1, 3, 4 & 5)
 - Form was signed by the "owner" (Item 6)

- B. Siting Information – the following documentation was enclosed (Item 2):

1. Karst documentation:

- Site is not in karst. Map or IGS document was enclosed.
- Site is in a potential karst. Upgraded concrete standards must be used (see CDS or PE Design Cert.)
- A copy of soils exploration signed by a PE or other qualified organization (NRCS) was enclosed showing that the vertical distance between the bottom of the formed structure and the soluble rock is 5 feet or more. Otherwise require a PE.

2. Alluvial soils documentation:

- Site is not in alluvial soils. Map or IGS document was enclosed, or acceptable documents submitted.
- Site is in alluvial soils. The following was enclosed:
 - a. FP determined site is not in floodplain or that a floodplain permit is not needed
 - b. Floodplain permit included

- C. Geological Survey Bureau Report also needed?

- Does the site contain soils classified as alluvial?
- Is the site located on karst terrains or does the site drain into a known sinkhole?

- D. If the application is for an expansion of an operation that did not previously need a permit, was all previous construction completed at least 120 days ago? (Item 3, A)

- E. Interested Parties Form (Item 7). Any pending enforcement actions? Yes No

- F. Fees (Item 8). This information has been entered in database:

- Manure Storage Indemnity Fee 150.00
- Construction Application Fee \$250.00
- Manure management plan filing fee \$250.00

TOTAL PAID: 650.00

- G. County documents:

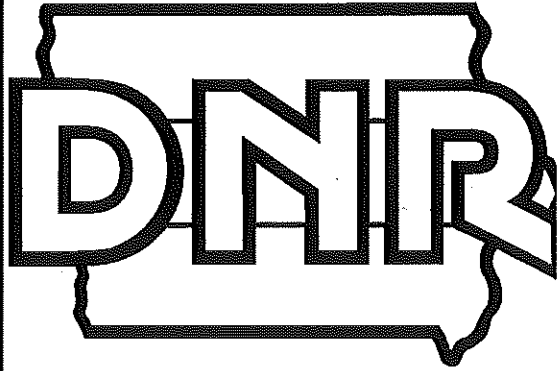
- Proof that all construction application documents were delivered to the county (Item 9).
- Proof of adequate public notice (all applications, no exceptions).
- County Comments: Yes No; Public Comments: Yes No
- If manure will be applied in a county other than the county in which the site is located, an additional verification of receipt of the MMP from that county was also submitted.

- H. Attachment 1 – Aerial photos:

- Maps, drawings of aerial photos that show the location of the proposed confinement feeding operation structures, and objects with a required separation distance was submitted by applicant.

1-barn - 51' x 384' x 8'

NOW	NEW	FINAL
<u>2490</u>	<u>+ 2510</u>	<u>= 5000</u>
<u>2000</u>		AU



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

FAX SHEET

DELIVER TO: Humboldt County Auditor PHONE: 1-515-332-1571

FAX NUMBER: 1-515-332-1738

FROM: Iowa DNR, Cindy Garza

NUMBER OF PAGES (including this cover sheet): 4

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: 641/424-9342

Any problems with transmission call: 641/424-4073



STATE OF IOWA

TERRY E. BRANSTAD, GOVERNOR
KIM REYNOLDS, LT. GOVERNOR

DEPARTMENT OF NATURAL RESOURCES
CHUCK GIPP, DIRECTOR

March 7, 2017

Humboldt 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. 63826**

Dear Board of Supervisors:

The DNR has received a construction permit application for a confinement feeding operation:
Facility name: **Wacousta Finisher Farm Site**
Date received by DNR: **03/07/2017**

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

1. Publish a new public notice (see example on page following this letter) in a newspaper having a general circulation in the county no later than 03/21/2017 (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. 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 04/06/2017 (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 04/06/2017. 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 04/06/2017. 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

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

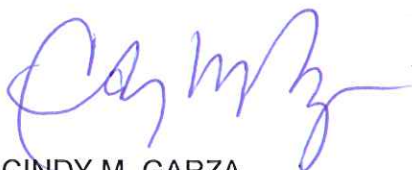
Iowa DNR
Field Office #2
2300 15th St SW
Mason City, IA 50401
Attn: Cindy Garza

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



CINDY M. GARZA
ENVIRONMENTAL ENGINEER

PUBLIC NOTICE

(This section is to be completed by the applicant)

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

Name of Applicant: Brookglade Farms, LLC

Location of the operation: Section 33, Wacousta Township.

Type of confinement feeding operation structure[‡] proposed: One new 2510 head deep pit swine finisher confinement building for an existing swine confinement facility.

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

(This section is to be completed by the county)

Examination: The application is on file at the County _____ Office and is available for public inspection during the following days:

_____ and hours: _____ am to _____ pm.

Comments: Written comments may be filed at the County _____ Office, until the following deadline: _____.

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

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



* * * Communication Result Report (Mar. 7. 2017 2:56PM) * * *

1} DNR FO2 MASON CITY
2}

Date/Time: Mar. 7. 2017 2:55PM

File No.	Mode	Destination	Pg(s)	Result	Page Not Sent
1424	Memory TX	15153321738	P. 6	OK	

Reason for error

- M. 1) Hang up or line fail
- M. 3) No answer
- M. 5) Exceeded max. E-mail size
- E. 2) Busy
- E. 4) No facsimile connection



Iowa Department of Natural Resources
1900 North Grand Ave.
Gateway N Mall, Suite B17
Spencer, Iowa 51301

FAX SHEET

DELIVER TO: Humboldt County Auditor PHONE: 1-515-332-1571

FAX NUMBER: 1-515-332-1738

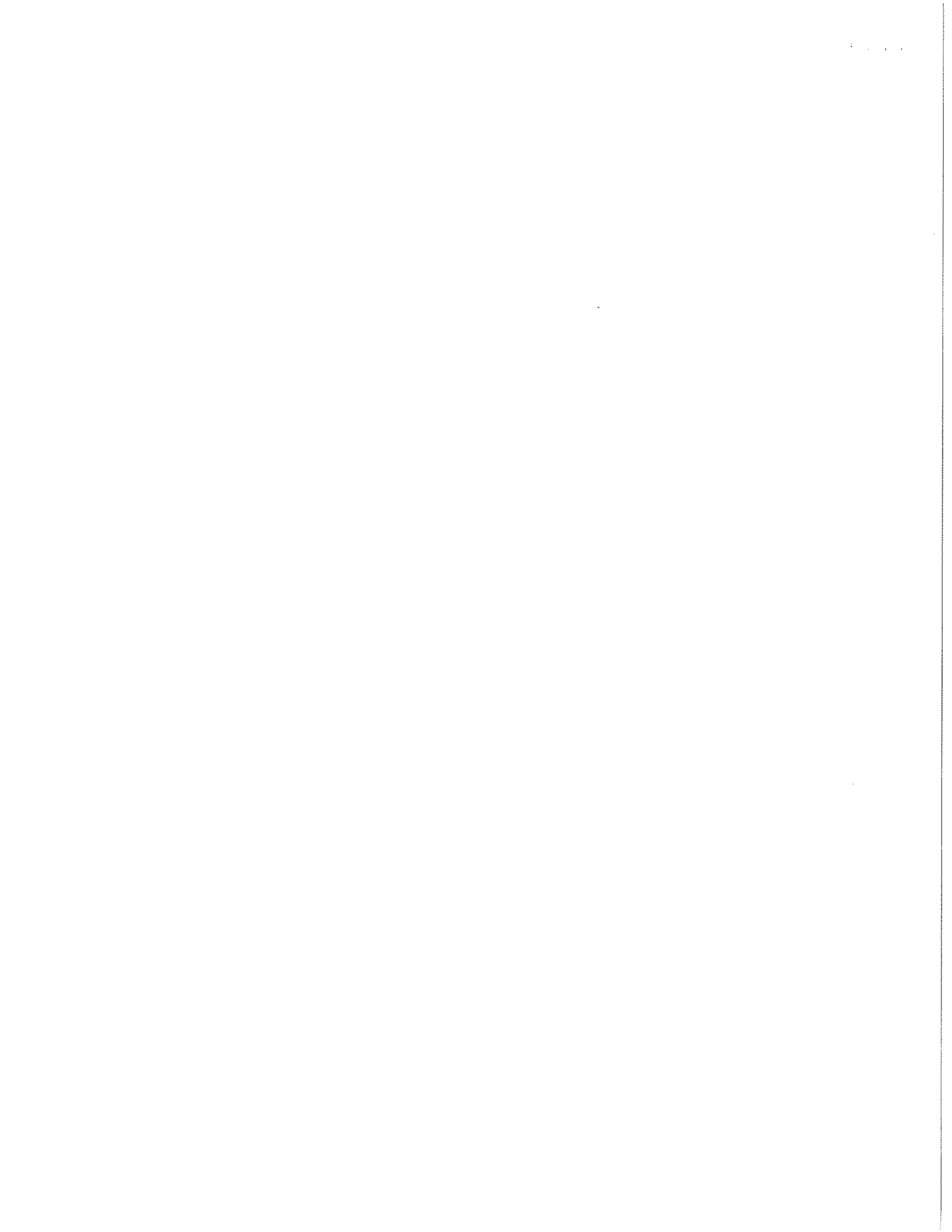
FROM: Iowa DNR, Cindy Garza

NUMBER OF PAGES (including this cover sheet): 4

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: 641/424-9342

Any problems with transmission call: 641/424-4073



HUMBOLDT COUNTY BOARD OF SUPERVISORS

203 Main Street, P. O. Box 100
Court House
Dakota City, Iowa 50529
515-332-1571
515-332-1738 (Fax)

*by email
4-4-17*

David Lee
Bruce Reimers

Rick Pedersen, Chairman

Carl F. Mattes
Erik Underberg

April 3, 2017

HUMBOLDT COUNTY MASTER MATRIX SCORING & RECOMMENDATION

The Humboldt County Board of Supervisors have reviewed the Master Matrix and Construction Permit Application for the Wacousta Finisher Farm Site, ID#63826

Public Notice was published on March 16, 2017 and the proof of publication is attached.

Matrix as scored by Humboldt County = 410 points. **Passing**~~(Failing)~~ (Circle One).

If the County scored matrix is different than submitted then the County scored matrix is attached with justifications #26 (E 30 points) **See below for explanation.**

Supplemental letter of documentation is being sent to DNR

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

Comments or Reason for Disapproval:

1. A site survey was requested and not received within the timeframe agreed upon.
2. Recording of Manure Management Easement Agreements per Humboldt County Ordinance #65. By the application information manure will be applied to ground already being used by another CAFO.

Signed:



Chairman, Humboldt County Board of Supervisors

Date: April 3, 2017

PUBLIC NOTICE

The Humboldt County Board of Supervisors has received a Construction permit application for a confinement feeding operation, more specifically described as follows: Brookdale Farms LLC, Section 33, Wacousta Township.

Type of confinement feeding operation structure proposed: One new 2,510 head deep pit swine finisher confinement building for an existing swine confinement facility. Animal Unit Capacity of the Confinement Operation after Construction: 2,000 animal units (5,000 head of swine finishers).

The application is on file at the County EMA Office and is available for public inspection during the following days: Mon- Thurs: 9 a.m. to 3 p.m.

Written comments may be filed at the county EMA Office, until the following deadline: Monday, March 27th at 3 p.m.

144.1

PUBLISHER'S AFFIDAVIT

State of Iowa, Humboldt County, ss.

I, Tammy Moser of GARGANO

COMMUNICATIONS, being duly sworn, do depose and say that I am Bookkeeper of

THE HUMBOLDT INDEPENDENT, a weekly newspaper

printed and published in Humboldt, Humboldt County, IOWA, and that the

BROOKDALE FARMS

of which the annexed is a true copy, was printed and

published in said paper 1(one) consecutive week;

the said publications occurring upon

the 16 day of March, A.D. 2017

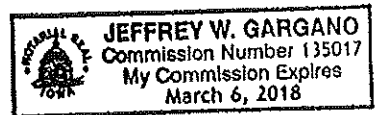
Tammy Moser

Subscribed and sworn to before me

the 16 day of March, A.D. 2017

Jeff Gargano

Notary Public in and for Humboldt County, Iowa



Printer's Fee \$ 9.91

Received of _____

this _____ day of _____, A.D. _____

\$ _____ in full of fees for the publication of the above.

Prepared by: Gregory H. Stoebe, 9 5th St. N., Humboldt, IA 50548 515-332-2353

Return to: Peggy J. Rice, Humboldt Co. Auditor, 203 Main Street, Dakota City, IA 50529 515-332-1571

ORDINANCE #65

AN ORDINANCE ESTABLISHING A PUBLIC RECORD DATABASE FOR LIVESTOCK CONFINEMENT OPERATIONS IN HUMBOLDT COUNTY, IOWA

BE IT ORDAINED this 26th day of September, 2016, by the Board of Supervisors of Humboldt County, Iowa that the County Code of Ordinances be and is hereby amended to include the following ordinance:

PURPOSE - The purpose of this ordinance is to, by public recording establish a database and an informational tracking record for individual properties both as to specific livestock operations and as to lands which from time to time may have livestock waste disposal and disbursement agreements affecting them.

DEFINITIONS – As utilized herein, “livestock confinement operations” shall mean any facilities utilized for bovine, porcine or poultry operations including breeding finishing and holding facilities and for which under the laws and regulations of the State of Iowa, manure management and disposal agreements are required operations not subject to such state laws shall not be affected by this ordinance. Agreements initiated in other counties and transferred in whole or in part as affecting Humboldt County lands shall also be recorded.

PROCEDURE – In order to properly insure the full disclosure of livestock confinement operations within the county, there shall be filed with the Office of the County Recorder any manure management agreements, leases, and contracts as affect the particular project for which an application for construction permit has been made. This shall include any such proposed projects referred to the County Zoning Adjustment Board. The recordings shall be made in proposed form with the application for permit and upon final approval of the permit shall be recorded at applicant’s expense. Such other ancillary waste management agreement as at the time of the application and as from time to time may be cancelled replaced or amended shall also have such documents recorded.

Dated this 26th day of September, 2016.

Jerry R. Haverly, Chairman
Humboldt County Board of Supervisors

ATTEST:

Peggy J. Rice, County Auditor



STATE OF IOWA

TERRY E. BRANSTAD, GOVERNOR
KIM REYNOLDS, LT. GOVERNOR

DEPARTMENT OF NATURAL RESOURCES
CHUCK GIFF, DIRECTOR

April 25, 2017

Keith Kratchmer
Iowa Select
824 Brooks Road, Suite B
Iowa Falls, IA 50126

RE: Preliminary Approval of Construction Permit Application and
Notice of Intent to Issue a Permit for - Wacousta Finisher Farm Site
Facility ID No. 63826
Humboldt County

Dear Mr. Kratchmer:

The department has concluded the review of your construction permit application for one new swine finisher confinement building proposed in the SE ¼ of the SW ¼ of Section 33, T93N, R30W, Wacousta Township, Humboldt County, Iowa. On April 4, 2017 the department received the Humboldt County Board of Supervisors matrix evaluation, and the board's recommendation. The master matrix evaluation conducted by the board showed an unsatisfactory score of 415 points. The board recommended to disapprove your permit application because of the matrix scoring.

In accordance with Iowa Administrative Code 567 IAC 65.10(5)"c", enclosed, the department then conducted an independent evaluation of the master matrix, including the supporting documentation submitted with the application. The application was scored by the Department at 445 points, which is a satisfactory scoring. According to 567 IAC 65, Appendix C, a "Master Matrix" requires a minimum score of 440 points to pass. Therefore, in accordance with 567 IAC 65.10(5)"c" and Iowa Code Sections 459.303 and 459.304, the department has preliminarily approved your construction permit application. A copy of the department's independent master matrix evaluation with the scoring and your draft construction permit are enclosed. Pursuant to 567 IAC 65.10(8) (copy enclosed) you may contest this preliminary decision within 14 days of your receipt of this letter. If you do not contest this preliminary decision it will automatically become final on the 15th day following your receipt of this letter.

Iowa Code Section 459.304 allows the Humboldt County Board of Supervisors to contest this decision, as explained in the attached letter. Therefore, the IDNR's intent to issue this permit is not a final decision and you are not authorized to begin construction under the terms of the permit at this time. A final permit will be issued on the 15th day following receipt of this notice by Humboldt County unless the County timely submits a facsimile (FAX) notice of intent to file a demand for hearing. If the County submits a notice of intent to file a demand for hearing, you will be notified, and the permit will not be issued until it is affirmed by the Environmental Protection Commission (EPC).

If you have any questions regarding the appeal procedures please contact Kelli Book, DNR's Attorney, at (515) 725-8252. If you have questions regarding this draft permit, please contact the review engineer, Cindy Garza, at (641) 424-4073 or cindy.garza@dmr.iowa.gov.

Sincerely,
FIELD SERVICES AND COMPLIANCE BUREAU



CINDY M. GARZZA
ENVIRONMENTAL ENGINEER

Enc: DNR Master Matrix Evaluation
Copy of 567 IAC 65.10(8).and 65.10(5) c.
Draft Construction Permit

c: Humboldt County Board of Supervisors
Attn: Peggy Rice, Auditor, 203 Main, PO Box 100, Dakota City, IA 50529
DNR Field Office 2, Attn: Adam Shaffer

567 Iowa Administrative Code 65.10(5)

65.10(5) Determination by the department. The department must receive the county board of supervisors' comments or evaluation for approval or disapproval of an application for a construction permit not later than 30 days following the applicant's delivery of a complete application to the department. Regardless of whether the department receives comments or an evaluation by a county board of supervisors, the department must render a determination or a preliminary determination to approve or disapprove an application for a construction permit within 60 days following the applicant's delivery of a complete application to the department. However, the applicant may deliver a notice requesting a continuance. Upon receipt of a notice, the time required for the county or department to act upon the application shall be suspended for the period provided in the notice, but for not more than 30 days after the department's receipt of the notice. The applicant may submit more than one notice. However, the department may terminate an application if no action is required by the department for one year following delivery of the application to the board. The department may also provide for a continuance when it considers the application. The department shall provide notice to the applicant and the board of the continuance. The time required for the department to act upon the application shall be suspended for the period provided in the notice, but for not more than 30 days. However, the department shall not provide for more than one continuance. If review of the application is delayed because the application is incomplete, and the applicant fails to supply requested information within a reasonable time prior to the deadline for action on the application, the permit may be denied and a new application will be required if the applicant wishes to proceed. The department will approve or disapprove an application as follows:

a. If the county board of supervisors does not submit a construction evaluation resolution to the department, fails to submit an adopted recommendation, submits only comments, or fails to submit comments, the department shall approve the application if the application meets the requirements of this chapter and Iowa Code chapters 455B, 459, 459A and 459B. The department will disapprove the application if it does not meet such requirements.

b. If the board of supervisors for the county in which the confinement feeding operation is proposed to be constructed has filed a county construction evaluation resolution and submits an adopted recommendation to approve the construction permit application, which may be based on a satisfactory rating produced by the master matrix, to the department, the department shall preliminarily approve an application for a construction permit if the department determines that the application meets the requirements of this chapter and Iowa Code chapters 455B, 459, 459A and 459B. The department shall preliminarily disapprove an application that does not satisfy the requirements of this chapter and Iowa Code chapters 455B, 459, 459A and 459B regardless of the adopted recommendation of the board of supervisors. The department shall consider any timely filed comments made by the board as provided in this subrule to determine if an application meets the requirements of this chapter and Iowa Code chapters 455B, 459, 459A and 459B.

c. If the board submits to the department an adopted recommendation to disapprove an application for a construction permit that is based on a rating produced by the master matrix, the department shall first determine if the application meets the requirements of this chapter and Iowa Code chapters 455B, 459, 459A and 459B. The department shall preliminarily disapprove an application that does not satisfy the requirements of this chapter and Iowa Code chapters 455B, 459, 459A and 459B, regardless of any result produced by using the master matrix. If the application meets the requirements of this chapter and Iowa Code chapters 455B, 459, 459A and 459B, the department shall conduct an independent evaluation of the application using the master matrix. The department shall preliminarily approve the application if it achieves a satisfactory rating according to the department's evaluation. The department shall preliminarily disapprove the application if it produces an unsatisfactory rating regardless of whether the application satisfies the requirements of this chapter and Iowa Code chapters 455B, 459, 459A and 459B. The department shall consider any timely filed comments made by the board as provided in this subrule to determine if an application meets the requirements of this chapter and Iowa Code chapters 455B, 459, 459A and 459B.

EXPLANATION OF SCORING FOR DNR'S MATRIX EVALUATION
WACOUSTA FINISHER FARM SITE
Facility ID No. 63826
By: Cindy Garza and Adam Shaffer
April 21, 2017

Background:

The Humboldt County Board of Supervisors' recommendation to disapprove the construction permit application and score the master matrix with an unsatisfactory score of 410 points, for the Wacousta Finisher Farm Site, were received by the department on April 4, 2017.

Pursuant to 567 IAC 65.10(5)"c", the department concluded an independent matrix evaluation on April 21, 2017; the department scored 445 points for this application, which is satisfactory. The minimum passing score is 440 points.

During the master matrix independent evaluation for this application, the department considered the matrix supporting documents submitted with the application. No additional documents or amendments were admitted. In addition, the department evaluated only the matrix items for which the applicant claimed points.

The independent matrix evaluation for this application involved the following matrix items:

- Item 1 (additional separation distance, above minimum requirements, from proposed confinement structure to closest: residence not owned by the owner of the confinement feeding operation, hospital, nursing home or licensed or registered child care facility)
- Item 2 (additional separation distance, above minimum requirements, from proposed confinement structure to closest: Public use area)
- Item 3 (additional separation distance, above minimum requirements, from proposed confinement structure to the closest: Educational institution, Religious institution or commercial enterprise)
- Item 4 (additional separation distance, above minimum requirement of 500 feet, from proposed confinement structure to the closest water source)
- Item 6 (additional separation distance, above minimum requirements, from proposed confinement structure to closest critical public area)
- Item 8 (additional separation distance, above minimum requirements, from proposed confinement structure to the closest: ag drainage well, known sink hole or major water source)
- Item 10 (separation distance from proposed confinement structure to closest: high quality waters, high quality resource waters or protected water areas) is at least two times the required separation distance).
- Item 12 (proposed liquid manure storage structure is covered)
- Item 17 (proposed manure storage structure is formed)
- Item 19 (Proposed confinement site has a suitable truck turn around)
- Item 24 (facility size)
- Item 25 (Construction permit application includes livestock feeding and watering systems that significantly reduce manure volume)
- Item 26e (injection or incorporation of manure on the same day it is land-applied)
- Item 35 (Additional separation distance above the minimum requirements, for land-application of manure from the closest: high quality (HQ) waters, high quality resource (HQR) waters or protected water areas (PWA))

The department's scoring of the above matrix items is tabulated below:

Matrix Item 1 (additional separation distance, above the minimum requirements, from proposed confinement structure to: residence not owned by the owner of the confinement feeding operation, hospital, nursing home or licensed or registered day care facility)

Applicant claimed 100 points

County granted 100 points

DNR granted 100 points (confirmed through mapping)

Nearest residence measured is approximately 3,876 ft away, 3,876 ft - the minimum required distance of 1,875 ft = 2,001 ft. Additional distances of 1,251 ft or more are awarded a score of 100 points, so applicant is awarded 100 points.

Matrix Item 2 (additional separation distance, above minimum requirements of 2,500 ft, from proposed confinement structure to closest public use area)

Applicant claimed 30 points

County granted 30 points

DNR granted 30 points (confirmed through mapping)

Nearest public use area is the Bradgate Ball Diamond approximately 1 ½ miles away to the Southwest, 7,920 ft - the minimum required distance of 2,500 ft = 5,420 ft. Additional distances of 1,501 ft or more are awarded a score of 30 points, so applicant is awarded 30 points.

Matrix Item 3 (additional separation distance, above minimum requirements, from proposed confinement structure to the closest: educational institution, religious institution or commercial enterprise)

Applicant claimed 30 points

County granted 30 points

DNR granted 30 points (confirmed through mapping)

The nearest of these items would be Pro Co-op in the city of Bradgate, which is approximately 9,000 ft to the southwest. 9,000 ft - the minimum required distance of 1,501 ft = 7,499 ft. Additional distances of 1,501 ft or more are awarded a score of 30 points, so applicant is awarded 30 points.

Matrix Item 4 (additional separation distance, above minimum requirement of 500 ft, from proposed confinement structure to the closest water source)

Applicant claimed 30 points

County granted 30 points

DNR granted 30 points (confirmed through mapping)

Nearest water source (Drainage Ditch 7) is greater than 4000 ft away. 4,000 ft - the minimum required distance of 500 ft = 3,500 ft. Additional distances of 1,501 ft or more are awarded a score of 30 points, so applicant is awarded 30 points

Matrix Item 6 (additional separation distance, above minimum requirements, from proposed confinement structure to closest critical public area)

Applicant claimed 10 points

County granted 10 points

DNR granted 10 points (confirmed through mapping)

Nearest critical public use area is more than 2,500 ft away, through computer mapping the additional distance was confirmed, Bradgate Wildlife Area a DNR owned public hunting area is approximately 2 miles away to the south. 10,500 ft - the minimum required distance of 500 ft = 10,000 ft. Additional distances of 500 ft or more are awarded a score of 10 points, so applicant is awarded 10 points.

Matrix Item 8 (additional separation distance, above minimum requirement of 1,000 feet, from proposed confinement structure to the closest: agricultural drainage well, known sink hole or major water source)

Applicant claimed 50 points

County granted 50 points

DNR granted 50 points (confirmed through mapping)

There is a agricultural drainage well approximately 8,000 ft away to the south. 8,000 ft - the minimum required distance of 1,000 = 7,000 ft. Additional distances of 2,501 ft or more are awarded a score of 50 points, so applicant is awarded 50 points.

Matrix Item 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(1,000 ft))

Applicant claimed 30 points

County granted 30 points

DNR granted 30 points (confirmed through mapping)

The structure is not within 2,000 ft of HQ, HQR or PWA, through computer mapping the additional distance was confirmed, the East Fork of the Des Moines River is over 11 miles away. Two times the minimum separation distances of 1,000 ft is awarded a score of 30 points, so applicant is awarded 30 points.

Matrix Item 12 (proposed liquid manure storage structure is covered)

Applicant claimed 30 points

County granted 30 points

DNR granted 30 points

The "Design" plan mentioned the building with a deep pit and referenced the fact that a formed manure storage structure directly beneath a floor where animals are housed is deemed to be covered. The cover is specifically mentioned and provides information on the design.

The "Operation" plan would typically not have much information and what was submitted appears to be sufficient.

The "Maintenance" plan mentions a Farm Manager who will look for general structure failures, water leaks in the roof and for storm damage. The information submitted appears to be sufficient.

Conclusion: The plans appear to be specific enough and of sufficient detail to warrant the points claimed. An acceptable plan is awarded a score of 30 points, so applicant is awarded 30 points.

Matrix Item 17 (proposed manure storage structure is formed)

Applicant claimed 30 points

County granted 30 points

DNR granted 30 points

The "Design" plan explained what the structure material was, the CDS requirements in some detail including the design requirements for reinforcing steel, backfilling, etc.

The "Operation" plan does address some inspection prior to use of the structure, daily inhabitation of the building to monitor water supply and pit levels.

The "Maintenance" plan does indicate that exposed walls will be inspected and contains a sufficient amount of inspection activities scheduled for the structure and perimeter tile.

Conclusion: The plans are specific and broad enough and of sufficient detail to warrant the points claimed. An acceptable plan is awarded a score of 30 points, so applicant is awarded 30 points.

Matrix Item 19 (Proposed confinement to have a suitable truck turnaround area)

Applicant claimed 20 points

County granted 20 points

DNR granted 20 points

A site plan for the truck turn around is furnished, the drive is shown, the subsurface design of the drive, the road gravel is specified and a plan to maintain. An acceptable plan is awarded a score of 20 points, so applicant is awarded 20 points.

Matrix Item 24 (facility size)

Applicant claimed 20 points

County granted 20 points

DNR granted 20 points

Facilities with 1 to 2,000 animal unit capacity are granted 20 points, this facility is 2000 animal units so the applicant is awarded 20 points.

Matrix Item 25 (feeder and watering systems that significantly reduce manure volume)

Applicant claimed 25 points

County granted 25 points

DNR granted 25 points

The "Design" plan does explain what a traditional watering system consists of, why it is inefficient and then explains how the choice(s) for a more efficient system will significantly reduce manure volume. Several different types of proposed feeder/waterers were discussed. The design features of these choices (material, water tightness, regulators, flow control features, etc.) was discussed. Manufacturers' data was included along with efficiency studies of different types of waterers.

The Operation plan mentions the system will be adjusted for efficiency. The plan included information on standard settings for types of livestock, mechanisms for adjustment and daily adjustments.

The Maintenance plan mentions that the feeders will be inspected and adjusted to ensure optimal water levels. The feeders will also be thoroughly cleaned, inspected and repaired between rotations of animals.

Conclusion: The plan is of sufficient detail to warrant the points claimed. An acceptable plan is awarded a score of 25 points, so applicant is awarded 25 points

Matrix Item 26e ((Injection or incorporation of manure will occur on the same date it is land-applied)

Applicant claimed 30 points

County granted 0 points

DNR granted 30 points

Applicant's MMP (Manure Management Plan) indicated what fields the manure would be applied on, MMPs can share fields with other MMPs. The method of manure application will be direct injection with tank. This method of land-application of manure is awarded a score of 30 points, so applicant is awarded 30 points.

Matrix Item 35 (Additional separation distance above the minimum requirements, for land-application of manure from the closest: high quality (HQ) waters, high quality resource (HQR) waters or protected water areas (PWA))

Applicant claimed 10 points

County granted 10 points

DNR granted 10 points

Reviewing the MMP fields there is no land-application of manure within 2,000 ft of HQ, HQR or PWA, the current MMP fields are approximately 10 miles away. Additional separation distance of 400 ft is awarded a score of 10 points, so applicant is awarded 10 points.

Total points granted by DNR is 445. The minimum passing score is 440 points; therefore the department's review has resulted in a preliminary approval for the proposed facility due to a satisfactory score in the master matrix.

567 Iowa Administrative Code 65.10(8)

65.10(8) Applicant's demand for hearing. The applicant may contest the department's preliminary decision to approve or disapprove an application for permit by filing a written demand for a hearing. The applicant may elect, as part of the written demand for hearing, to have the hearing conducted before the commission pursuant to paragraph 65.10(8) "a" or before an administrative law judge pursuant to paragraph 65.10(8) "b." If no such election is made, the demand for hearing shall be considered to be a request for hearing before the commission. If both the applicant and the county board of supervisors are contesting the department's preliminary decision, the applicant may request that the commission conduct the hearing on a consolidated basis.

a. Applicant demand for hearing before the commission. Due to the need for expedited scheduling, the applicant shall, as soon as possible but not later than 14 days following receipt of the department's notice of preliminary decision, notify the department in writing that the applicant intends to file a demand for hearing. The demand for hearing shall be sent to the director of the department and must be postmarked no later than 30 days following the applicant's receipt of the department's notice of preliminary decision. If the county board of supervisors has filed a demand for hearing, the times for facsimile notification and filing a demand for hearing are extended an additional 3 business days. It is the responsibility of the applicant to communicate with the department to determine if a county demand for hearing has been filed. The demand for hearing shall include a statement setting forth all of the applicant's reasons why the application for permit should be approved or disapproved, including legal briefs and all supporting documentation, and a further statement indicating whether an oral presentation before the commission is requested.

b Applicant contested case appeal before an administrative law judge. The applicant may contest the department's preliminary decision to approve or disapprove an application according to the contested case procedures set forth in 561—Chapter 7; however, if the county board of supervisors has demanded a hearing pursuant to subrule 65.10(7), the applicant shall provide facsimile notification to the department within the time frame set forth in 65.10(8) "a" that the applicant intends to contest the department's preliminary decision according to contested case procedures. In that event, the applicant may request that the hearings be consolidated and conducted as a contested case.

The current contact person for the Director is Jerah Sheets (jerah.sheets@dnr.iowa.gov).

The demand for a hearing must be submitted to:
Director, Department of Natural Resources
Henry A. Wallace Building
502 E Ninth Street
Des Moines, Iowa 50319

STATE OF IOWA
DEPARTMENT OF NATURAL RESOURCES
HENRY A. WALLACE BUILDING
DES MOINES, IOWA 50319

CONSTRUCTION PERMIT

Issued Date: **DRAFT**

Permit No: **DRAFT**

Issued To:

Brookglade Farms, LLC
824 Brooks Road
Iowa Falls, IA 50126

File: Agriculture

RE: Wacousta Finisher Farm Site

Facility ID No.: 63826

In accordance with the provisions of Sections 459.303 and 459.304 and 567 Iowa Administrative Code (IAC) 65.7(455B), the Director of the Department of Natural Resources does hereby issue a construction permit for:

One new swine confinement finishing barn (384' x 51'2" x 8' deep) to house 2500 head. The manure control system consists of a below the floor deep concrete pit (8 ft. deep). The existing site is in the SE¼ of the SW¼ of Section 33, T93N, R30W, Wacousta Township, Humboldt County, Iowa. The maximum animal unit capacity (AUC), after completion, of the entire operation, confined at one time, shall not exceed 2000 animal units (AU). The total animal capacity of the operation (maximum number of animals to be confined at any one time), after construction, is 5000 finisher swine.

This permit is issued subject to the following conditions and requirements:

1. No material change in the construction of this project shall be undertaken unless first authorized by this Department.
2. This construction permit shall expire if the authorized construction is not begun within one year. The construction of this project shall be initiated within one (1) year and completed within four (4) years of the date of issuance of this permit. A new construction permit will be required if construction is not completed within the permitted four years.
3. The design capacity of the manure storage system for the entire swine finishing operation is for a total animal unit capacity of 2000 animal units and a maximum animal capacity, to be confined at any one time is 5000 finisher swine. A new construction permit shall be obtained prior to making any additions or alterations to the manure control system, making any process changes that would materially affect the manure control system, expanding the animal capacity, or increasing the volume of manure.
4. Animals shall not be placed in the new confinement building and manure shall not be stored in the new concrete pit until all of the following is satisfied:
 - a) **Construction is completed;**
 - b) **You submit a certification (copy enclosed for your use) that the below the floor concrete manure storage pit was:**
 - **Constructed in accordance with the current concrete design standards of 567 IAC-65.15(14);**

- Constructed in accordance with the drainage tile removal standards of 567 IAC - 65.15(1) including a report of the findings and actions taken to comply with this subrule; and
 - Constructed in accordance with the minimum required separation distances as outlined in 567 IAC-65, Table 6.
 - c) You must notify this Department's Field Office in Mason City, Iowa, at (641) 424-4073 prior to the initial concrete pour for your manure storage pit floors.
 - d) A drainage tile system has been installed around the base of the manure storage structure (deep pit) or a licensed professional engineer has submitted his/her determination of the average annual high water table at the site which shows that the groundwater table is not above the bottom of the manure storage structure (deep pit) as required in the 567 IAC 65.15(7)"b".
 - e) A device to allow monitoring of the water in the drainage tile lines installed around the structure 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.
 - f) You furnish the completed DNR Well Record Form and a site map showing the as built dimension from the well to the nearest proposed confinement structure.
 - g) You receive written approval from this Department.
5. If karst terrain (limestone, dolomite, or other soluble rock) is found during excavation of the permitted formed manure storage structure(s), the upgraded concrete standards set forth in 567 IAC 65.15(14)"c", must be followed. Construction of an unformed manure storage structure in karst terrain, as defined in 567 IAC 65.1(455B), is prohibited. The Department must first authorize any design changes to the project, as required in condition 1 of this permit.
6. The Master Matrix evaluation of your application, that was scored by the Department of Natural Resources, includes scores for criteria 12, 17, 19 and 25. The Master Matrix requires that a (design, operation and maintenance) plan for these criteria be included in the application and that compliance with said plan be a condition of the Permit. Briefly stated:
- a) You shall build, maintain, and operate the concrete manure storage pit according to your County-approved design, operation, and maintenance plan. (criteria # 12, and # 17)
 - b) You shall build, maintain, and operate the truck turnaround according to your County-approved design, operation, and maintenance plan. (criterion # 19)
 - c) You shall build, maintain, and operate the manure volume reduction (feeding and watering) systems according to your County approved design, operation, and maintenance plan. (criterion # 25)
7. The Master Matrix evaluation of your application, that was scored by the Department of Natural Resources, includes scores for criteria 26"e" and 35. The Master Matrix requires that the limitations or actions you accepted in choosing to receive scores for these criteria must be included as conditions of the Permit. Briefly stated:
- a) The manure produced at this confinement operation shall be injected or incorporated on the same date it is land applied. (criterion # 26 "e")
 - b) An additional separation distance of 400 feet above the minimum requirement shall be maintained during the injection or same date incorporation of manure to the closest high

quality (HQ) water, high quality resource (HQR) water, or protected water area (PWA). (criterion # 35)

8. Prior to entering the winter season, a sufficient volume of manure shall be removed from the manure storage structures to provide adequate volume for storage of manure produced in the livestock production facilities during the winter season.
9. All the manure removed from the manure storage facilities shall be disposed of by land application in accordance with your approved manure management plan. You must also keep your manure management plan current and maintain records sufficient to demonstrate compliance with the plan. A copy of the approved Plan shall be kept within 30 miles of the site in accordance with 567 IAC 65.17(12).
10. Water usage in the confinement facilities that result in dilution of manure entering the manure storage structures shall be minimized.
11. Dilution water shall not be added to the manure storage structures except during manure emptying operations.
12. Human sanitary wastes (including showers and laundry facilities) shall not be discharged to the manure storage structures.
13. A water use permit is required for the withdrawal or diversion of more than 25,000 gallons of water per day. Water purchased from municipal or rural water systems is excluded. Any future wells shall be located respective of regulated separation distances and installed according to county permit requirements. For more information or to verify permit requirements, contact Jim Neleigh at (515) 725-0276.
14. No construction activities shall be initiated unless a NPDES General Permit No 2, for "Storm water discharge associated with construction activities" is obtained from this Department if the site disturbance from all construction activities equals or exceeds one (1) acre. For more information or to verify permit requirements contact Joe Griffin at (515) 725-8417.
15. The issuance of this permit in no way relieves you the applicant of the responsibility for complying with all local, state and federal laws, ordinances, regulations and other requirements applying to the construction or operation of this facility.

Pursuant to Iowa Code Section 459.304, you have the right to appeal any condition of this permit as provided in 567 IAC 65.10(8). Please contact Cindy Garza at (641) 424-4073 with any questions.

For the Department of Natural Resources:

CHUCK GIPP, DIRECTOR

By: DRAFT
ENVIRONMENTAL SERVICE DIVISION

Date: DRAFT

c: Humboldt County Board of Supervisors
Attn: Peggy Rice, Auditor, 203 Main, PO Box 100, Dakota City, IA 50529
DNR Field Office 2, Attn: Adam Shaffer



STATE OF IOWA

TERRY E. BRANSTAD, GOVERNOR
KIM REYNOLDS, LT. GOVERNOR

DEPARTMENT OF NATURAL RESOURCES
CHUCK GIPP, DIRECTOR

April 25, 2017

Humboldt County Board of Supervisors
Attn: Peggy Rice, Auditor
PO Box 100
Dakota City, IA 50529

RE: Notice of Intent to Issue a Permit
Wacousta Finisher Farm Site, Facility ID #63826
Humboldt County

Dear Ms. Rice:

This department has made a preliminary determination that Brookglade Farms, LLC has met the legal criteria to be issued a construction permit for one new deep pit swine confinement building located in the SE $\frac{1}{4}$ of the SW $\frac{1}{4}$ of Section 33, T93N, R30W, Wacousta Township, Humboldt County, Iowa. A copy of the draft permit is enclosed for your information. The permit would authorize Brookglade Farms, LLC to construct the confinement feeding operation structure(s) as described in the draft permit.

Pursuant to Iowa Code Section 459.304 and subrule 567 Iowa Administrative Code (IAC) 65.10(7) the Humboldt County Board of Supervisors may contest the draft permit by filing a timely demand for hearing before the Environmental Protection Commission (EPC). The board shall, as soon as possible but not later than fourteen (14) days following receipt of this letter, notify the Director, Department of Natural Resources that it intends to file a demand for hearing. The current contact person for the Director is Jerah Sheets (jerah.sheets@dnr.iowa.gov). The demand for a hearing must be submitted to the Director, Department of Natural Resources, Henry A. Wallace Building, 502 E. Ninth Street, Des Moines, Iowa, 50319. The demand for hearing shall be submitted within thirty (30) days following receipt of this letter and accompanied by a statement that provides all the reasons why the permit should not be issued according to the legal requirements of Iowa Code Section 459 "Animal Agriculture Compliance Act" and 567 IAC chapter 65; legal briefs and any other documents to be considered by the commission or a statement indicating that no other documents will be submitted for the commission's consideration; and a statement indicating whether oral argument before the commission is desired. The matter would be heard by the commission at a time and location to be determined by the commission. The commission must set a meeting date within thirty-five (35) days from the date that the county board of supervisors files a demand for a hearing.

If you have any questions regarding this permit, please contact Cindy Garza at (641) 424-4073.

Sincerely,
FIELD SERVICES AND COMPLIANCE BUREAU

CINDY M. GARZA
ENVIRONMENTAL ENGINEER

c: Keith Kratchmer, Iowa Select, 824 Brooks Road, Suite B, Iowa Falls, IA 50126
Iowa DNR - Field Office #2 Attn: Adam Shaffer

**IOWA DEPARTMENT OF NATURAL
RESOURCES
ENVIRONMENTAL SERVICES DIVISION**
Field Office 2, Mason City
AFO Site Survey Report

TO: Cindy Garza **Facility Name:** Wacousta Finisher Farm **ID #:** 63826 **Facility Owner:** Brookglade Farms, LLC
Location: SW ¼, Section 33, Wacousta Township, Humboldt County, Iowa
Animal Species: Swine **Expansion?** Yes - **Previous construction date(s):** June 1, 2005
AUC: 2000 and/or **AWC:** N/A lbs.
MMP - Approval Date: 15 MAR 17 or **Disapproval Date:** N/A

Investigation Date: 20 MAR 17 **Date Emailed:** 21 MAR 17

Persons Contacted: Melody Larson, Emergency Management Coordinator; Tim Hamilton, Environmental Services ISF

TABLE 6 - STRUCTURE SEPARATION DISTANCE REQUIREMENTS AND OBSERVATIONS (FT)						
Type of Structure	Residences, Businesses, Churches, Schools (Unincorporated & Incorporated Areas)	Public use areas	Major water sources ¹ , wellhead, cistern of ag drainage well, known sinkhole	Water sources ²	Designated wetlands	Right-of-way of a thoroughfare maintained by a political subdivision
Confinement buildings...						
REQUIREMENTS	1875 - 2500	2500	1000	500	2500	100
OBSERVATIONS	>3000	>2500	>1000	>500	>2500	>100

¹ Residences not owned by the owner of the animal feeding operation.

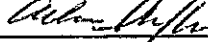
² Excluding farm ponds, privately owned lakes, or when a secondary containment barrier (SCB) is provided.

ALL AFOs - WELL SEPARATION DISTANCES REQUIREMENTS (REQ) AND OBSERVATIONS (OBS) (FT)								
Type of Structure	Public well REQ		Public well OBS		Private well REQ		Private well OBS	
	Shallow	Deep	Shallow	Deep	Shallow	Deep	Shallow	Deep
N/A	1000	400	N/A	N/A	400	400	N/A	N/A
Formed manure storage structure	200	100	N/A	N/A	200	100	N/A	>160

This proposed facility as submitted by the responsible party appears to comply with the siting requirements of Chapter 459 of the Code of Iowa and Chapter 567 IAC 65. On-site observations and/or measurements document compliance with the siting requirements for this proposed facility. Ms. Larson expressed no concerns regarding this proposed expansion.

This expansion will consist of constructing one new building to the north of the one existing building. No problems were noted during the survey. Distances provided in the permit application appear to be accurate. The location of the well for this site was verified to be in the southwest part of the facility approximately 109 feet from the existing production building. The new building will be the same width of 51 feet as the current one. Therefore the new building will be at least 160 feet from the well; though it is intended to be 240 feet from the new building with 80 feet of space planned between the two buildings.

According to direction from IDNR management, master matrix items 1-10 are no longer verified by IDNR personnel. Therefore these distances were not verified. Additionally, DER reviews are no longer required unless requested by IDNR Management; therefore a DER was not completed for this site.

INSPECTOR: 
Adam Shaffer

DATE: 21 MAR 17 **REVIEWER:**


Trent Lambert

DATE: 22 MAR 17

Wacousta Finisher Farm Site Expansion Master Matrix Distances as measured using: AFO Siting

Basemaps ▾ Measure Bookmarks ▾ Mail Map Info Soil



03 20 2017



HUMBOLDT COUNTY BOARD OF SUPERVISORS

203 Main Street, P. O. Box 100
Court House
Dakota City, Iowa 50529
515-332-1571
515-332-1738 (Fax)

David Lee
Bruce Reimers

Rick Pedersen, Chairman

Carl F. Mattes
Erik Underberg

April 3, 2017

HUMBOLDT COUNTY MASTER MATRIX SCORING & RECOMMENDATION

The Humboldt County Board of Supervisors have reviewed the Master Matrix and Construction Permit Application for the Wacousta Finisher Farm Site, ID#63826

Public Notice was published on March 16, 2017 and the proof of publication is attached.

RP Matrix as scored by Humboldt County = 415 points. **Passing/Failing** (Circle One).

If the County scored matrix is different than submitted then the County scored matrix is attached with justifications #26 (E 30 points) **See below for explanation.**


Supplemental letter of documentation is being sent to DNR

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

Comments or Reason for Disapproval:

1. A site survey was requested and not received within the timeframe agreed upon.
2. Recording of Manure Management Easement Agreements per Humboldt County Ordinance #65. By the application information manure will be applied to ground already being used by another CAFO.

Signed:



Chairman, Humboldt County Board of Supervisors

Date: April 3, 2017

RECEIVED

HUMBOLDT COUNTY BOARD OF SUPERVISORS

APR - 7 2017

203 Main Street, P. O. Box 100
Court House
Dakota City, Iowa 50529
515-332-1571
515-332-1738 (Fax)

IOWA DNR
FIELD OFFICE 2

David Lee
Bruce Reimers

Rick Pedersen, Chairman

Carl F. Mattes
Erik Underberg

April 3, 2017

HUMBOLDT COUNTY MASTER MATRIX SCORING & RECOMMENDATION

The Humboldt County Board of Supervisors have reviewed the Master Matrix and Construction Permit Application for the Wacousta Finisher Farm Site, ID#63826

Public Notice was published on March 16, 2017 and the proof of publication is attached.

Matrix as scored by Humboldt County = 410 points. **Passing** ~~(Failing)~~ (Circle One).

If the County scored matrix is different than submitted then the County scored matrix is attached with justifications #26 (E 30 points) **See below for explanation.**

Supplemental letter of documentation is being sent to DNR

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

Comments or Reason for Disapproval:

1. A site survey was requested and not received within the timeframe agreed upon.
2. Recording of Manure Management Easement Agreements per Humboldt County Ordinance #65. By the application information manure will be applied to ground already being used by another CAFO.

Signed:



Chairman, Humboldt County Board of Supervisors

Date: April 3, 2017

PUBLIC NOTICE

The Humboldt County Board of Supervisors, has received a Construction permit application for a confinement feeding operation, more specifically described as follows: Brookglade Farms LLC, Section 33, Wacousta Township.

Type of confinement feeding operation structure proposed: One new 2,510 head deep pit swine finisher confinement building for an existing swine confinement facility. Animal Unit Capacity of the Confinement Operation after Construction: 2,000 animal units (5,000 head of swine finishers).

The application is on file at the County EMA Office and is available for public inspection during the following days: Mon.-Thurs., 9 a.m. to 3 p.m.

Written comments may be filed at the county EMA Office, until the following deadline: Monday, March 27th at 3 p.m.

I-44-1

PUBLISHER'S AFFIDAVIT

State of Iowa, Humboldt County, ss.

I, Tammy Moser of GARGANO

COMMUNICATIONS, being duly sworn, do depose and

say that I am Bookkeeper of

THE HUMBOLDT INDEPENDENT, a weekly newspaper

printed and published in Humboldt, Humboldt County, IOWA, and that the

HUMBOLDT CO. ZONING-PUBLIC HEARING
BROOKDALE FARMS

of which the annexed is a true copy, was printed and

published in said paper 1(one) consecutive week;

the said publications occurring upon

the 16 day of March, A.D. 2017

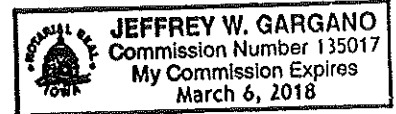
Tammy Moser

Subscribed and sworn to before me

the 16 day of March, A.D. 2017

Jeff Gargano

Notary Public in and for Humboldt County, Iowa



Printer's Fee \$ 9.91

Received of _____

this _____ day of _____, A.D. _____

\$ _____ in full of fees for the publication of the above.



Garza, Cindy <cindy.garza@dnr.iowa.gov>

RE: FW: FYI Wakousta Site

1 message

Kratchmer, Keith <kkkratchmer@iowaselect.com>
To: "Garza, Cindy" <cindy.garza@dnr.iowa.gov>

Tue, May 9, 2017 at 1:54 PM

Cindy,

Will this be on EPC agenda this month?

Thanks

Keith

From: Garza, Cindy [mailto:cindy.garza@dnr.iowa.gov]
Sent: Tuesday, May 9, 2017 1:48 PM
To: Kratchmer, Keith <kkkratchmer@iowaselect.com>
Cc: Pettiti, Paul [DNR] <Paul.Pettiti@dnr.iowa.gov>
Subject: Re: FW: FYI Wakousta Site

Yes, I got this from Keili yesterday. It was sent to the director's office on the 4th.



Cindy M Garza | Environmental Engineer
Field Office 2
Iowa Department of Natural Resources
P 641-424-4073 | F 641-424-9342 | 2300 15th St SW, Mason City, IA 50401 www.iowadnr.gov

On Tue, May 9, 2017 at 1:13 PM, Kratchmer, Keith <kkkratchmer@iowaselect.com> wrote:

Cindy,

Has Humboldt filed a dispute to your permit yet?

Thanks

Keith

From: Garza, Cindy [mailto:cindy.garza@dnr.iowa.gov]
Sent: Tuesday, May 2, 2017 9:00 AM
To: Kratchmer, Keith <kkkratchmer@iowaselect.com>
Cc: Pettiti, Paul [DNR] <Paul.Pettiti@dnr.iowa.gov>
Subject: Re: FW: FYI Wakousta Site

I will forward any paperwork I received from them.

I just got an email yesterday from Doreen about how to proceed.



Cindy M Garza | Environmental Engineer
Field Office 2
Iowa Department of Natural Resources
P 641-424-4073 | F 641-424-9342 | 2300 15th St SW, Mason City, IA 50401 www.iowadnr.gov

On Tue, May 2, 2017 at 8:55 AM, Kratchmer, Keith <kkkratchmer@iowaselect.com> wrote:

Don't know if you have received the good news from Humboldt County. Would you please send me a copy of the resolution that the counties sign?

Thanks

Keith

From: Pflner, Kent
Sent: Tuesday, May 2, 2017 8:08 AM
To: Kratchmer, Keith <kkratchmer@iowaSelect.com>; Hamilton, Tim <thamilton@iowaSelect.com>
Cc: Sorenson, Jen <jsorenson@iowaSelect.com>
Subject: FW: FYI Wakousta Site

From: Doreen Pflner [mailto:dpflner@webstercountyia.org]
Sent: Tuesday, May 2, 2017 8:03 AM
To: Pflner, Kent <kpflner@iowaSelect.com>
Subject: FYI Wakousta Site

Humboldt County supervisors to appeal DNR decision

By ROBERT WOLF
rdwolf@messtingnews.net

DAKOTA CITY — The Humboldt County Board of Supervisors on Monday voted to file an appeal with the Iowa Environmental Protection Commission against a state Department of Natural Resources' approval of a construction permit.

A month ago, the board denied a construction permit application for the Wacousta Finisher Farm, Brookside Farms LLC, in section 33 of Wacousta Township about two miles northeast of Bridgegate. The application was denied based on recommendations from the county Board of Adjustment because the requested site survey was not received in the time frame agreed upon, and the manure easement agreement listed ground that was already being used by another facility. In addition, the county is refusing to submit six copies of its application to the county.

The DNR has since approved the application, claiming the company met the required 30-point manure matrix figures for the manure management plan. However, the county disputes those points.

"They are using their access for another site," Supervisor Bruce Reimlers said.

"That is not acceptable," Supervisor Enk Underberg said. The county has no verification of the company's manure management plan other than it has been approved by the DNR, County Zoning Director Maecy Larson said.

"If you go ahead and don't do anything, then this company is just going to go ahead and keep pushing," she said. "We are faced with the huge task of closing agricultural drainage wells for quote on quote water quality, and then on the flip side they will allow, for the sake of argument, double application of manure without any records," Underberg said. "I say absolutely not. No way. Fight them tooth and nail."



Bruce Reimlers

Page 8 in today's paper.

Doreen Pflner

Webster County Auditor &

Commissioner of Elections

701 Central Ave.

Fort Dodge, IA 50501

Phone: (515)573-7175

Fax: (515)574-3714

email: auditor@webstercountyia.org



Garza, Cindy <cindy.garza@dnr.iowa.gov>

Re: Independent Review of Master Matrix and Draft Permit for Wacousta Finisher Farm - #63826

1 message

Garza, Cindy <cindy.garza@dnr.iowa.gov> Mon, May 1, 2017 at 10:08 AM
To: Peggy Rice <price@humboldtcountyia.org>, Jerah Sheets <Jerah.Sheets@dnr.iowa.gov>

Yes,
Notification within 14 days and full statements within 30 days.

The current contact person for the Director is Jerah Sheets (jerah.sheets@dnr.iowa.gov).

Let me know if you have any other questions.

Thank you
Cindy



Cindy M Garza | Environmental Engineer
Field Office 2
Iowa Department of Natural Resources
P 641-424-4073 | F 641-424-9342 | 2300 15th St SW, Mason City, IA 50401
www.iowadnr.gov

On Mon, May 1, 2017 at 9:51 AM, Peggy Rice <price@humboldtcountyia.org> wrote:

Cindy – The board voted today to contest the draft permit. Do I need to send a formal letter to DNR stating just that within the 14 day period and follow up with another letter with all the detail they request?

Peggy J. Rice
Humboldt County Auditor
203 Main St.
P.O. Box 100
Dakota City, IA 50529
515-332-1571
515-332-1738 (fax)
price@humboldtcountyia.org

From: Garza, Cindy [mailto:cindy.garza@dnr.iowa.gov]
Sent: Tuesday, April 25, 2017 10:56 AM

To: Peggy Rice <price@humboldtcountyia.org>
Subject: Re: Independent Review of Master Matrix and Draft Permit for Wacousta Finisher Farm - #63826

thank you!



Cindy M Garza | Environmental Engineer
Field Office 2
Iowa Department of Natural Resources
P 641-424-4073 | F 641-424-9342 | 2300 15th St SW, Mason City, IA 50401 www.iowadnr.gov

On Tue, Apr 25, 2017 at 10:54 AM, Peggy Rice <price@humboldtcountyia.org> wrote:

Cindy – I did receive the independent review and the draft permit. I will give this to the Board of Supervisors.

Peggy J. Rice
Humboldt County Auditor
203 Main St.
P.O. Box 100
Dakota City, IA 50529
515-332-1571
515-332-1738 (fax)
price@humboldtcountyia.org

From: Garza, Cindy [mailto:cindy.garza@dnr.iowa.gov]
Sent: Tuesday, April 25, 2017 10:42 AM
To: Keith Kratchmer <kratchmer@iowaselect.com>; Peggy Rice <price@humboldtcountyia.org>; Adam Shaffer <adam.shaffer@dnr.iowa.gov>; Kelli Book <kelli.book@dnr.iowa.gov>
Subject: Independent Review of Master Matrix and Draft Permit for Wacousta Finisher Farm - #63826

Peggy.

Attached is the independent review and the draft permit for Wacousta Finisher Farm - #63826 Humboldt County. Hard copy is in the mail. In the past we would send the draft permit via certified mail. In an effort to save time and money we are sending it via email.

Could you please respond to this email that you did receive the independent review and the draft permit and I will use that date as the official receipt date.

The Humboldt County Board of Supervisors may contest the draft permit by filing a timely demand for hearing before the Environmental Protection Commission (EPC). The board shall, as soon as possible but not later than fourteen (14) days following receipt of this letter, notify the Director, Department of Natural Resources that it intends to file a demand for a hearing. The current contact person for the Director is Jerah Sheets (jerah.sheets@dnr.iowa.gov). The demand for a hearing must be submitted to the Director, Department of Natural Resources, Henry A. Wallace Building, 502 E. Ninth Street, Des Moines, Iowa, 50319. The demand for hearing shall be submitted within thirty (30) days following receipt of this letter and accompanied by a statement that provides all the reasons why the permit should not be issued according to the legal requirements of Iowa Code Section 459 "Animal Agriculture Compliance Act" and 567 IAC chapter 65; legal briefs and any other documents to be considered by the commission or a statement indicating that no other documents will be submitted for the commission's consideration; and a statement indicating whether oral argument before the commission is desired. The matter would be heard by the commission at a time and location to be determined by the commission. The commission must set a meeting date within thirty-five (35) days from the date that the county board of supervisors files a demand for a hearing.

Thank you
Cindy



Cindy M Garza | Environmental Engineer
Field Office 2
Iowa Department of Natural Resources
P 641-424-4073 | F 641-424-9342 | 2300 15th St SW, Mason City, IA 50401
www.iowadnr.gov



Garza, Cindy <cindy.garza@dnr.iowa.gov>

RE: Wacousta Finisher Farm Site IOD #63826

1 message

Peggy Rice <price@humboldtcountyia.org>
To: "Garza, Cindy" <cindy.garza@dnr.iowa.gov>
Mon, Apr 24, 2017 at 4:18 PM

Yes I did and he has signed and initialed the new page. I will send that to you shortly.

Peggy J. Rice
Humboldt County Auditor
203 Main St.
P.O. Box 100
Dakota City, IA 50529
515-332-1571
515-332-1738 (fax)
price@humboldtcountyia.org

From: Garza, Cindy [mailto:cindy.garza@dnr.iowa.gov]
Sent: Monday, April 24, 2017 4:02 PM
To: Peggy Rice <price@humboldtcountyia.org>
Subject: Re: Wacousta Finisher Farm Site IOD #63826

Did you get to speak to the chairman today?

thanks
Cindy



Cindy M Garza | Environmental Engineer
Field Office 2
Iowa Department of Natural Resources
P 641-424-4073 | F 641-424-9342 | 2300 15th St SW, Mason City, IA 50401 www.iowadnr.gov

On Thu, Apr 20, 2017 at 3:57 PM, Garza, Cindy <cindy.garza@dnr.iowa.gov> wrote:

Yes that is fine!

Thank you!



Cindy M Garza | Environmental Engineer
Field Office 2
Iowa Department of Natural Resources
P 641-424-4073 | F 641-424-9342 | 2300 15th St SW, Mason City, IA 50401 www.iowadnr.gov

On Thu, Apr 20, 2017 at 3:56 PM, Peggy Rice <price@humboldtcountyia.org> wrote:

Cindy- I will not see the Chairman of the board until Monday to get this signed. Is that O.K.?

Peggy J. Rice
Humboldt County Auditor
203 Main St.
P.O. Box 100
Dakota City, IA 50529
515-332-1571
515-332-1738 (fax)
price@humboldtcountyia.org

From: Garza, Cindy [mailto:cindy.garza@dnr.iowa.gov]
Sent: Thursday, April 20, 2017 3:32 PM
To: Peggy Rice <price@humboldtcountyia.org>
Subject: Re: Wacousta Finisher Farm Site IOD #63826

Are you going to be able to have the error corrected?

Thank you
Cindy

Cindy M Garza | Environmental Engineer
Field Office 2
Iowa Department of Natural Resources
P 641-424-4073 | F 641-424-9342 | 2300 15th St SW, Mason City, IA 50401
www.iowadnr.gov

On Wed, Apr 19, 2017 at 3:12 PM, Garza, Cindy <cindy.garza@dnr.iowa.gov> wrote:
Peggy,

I was doing my review of this project and say that there is a typo on the recommendation page. Humboldt Co gave a total score of 410 (446-30=415 and not 410)

Wondering if the chairman can fix and initial the fix.

Let me know if you have any questions.

Thank you
Cindy

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www.iowadnr.gov

On Tue, Apr 4, 2017 at 4:27 PM, Peggy Rice <price@humboldtcountyia.org> wrote:

Cindy -- Please find attached the Board of Supervisors recommendation for the Wacousta Finisher Farm Site, Facility #63826. The original is in the mail to you.

If you have any questions, please let me know.

Peggy J. Rice
Humboldt County Auditor
203 Main St.
P.O. Box 100
Dakota City, IA 50529
515-332-1571
515-332-1738 (fax)
price@humboldtcountyia.org

From: copier@humboldtcountyia.org [mailto:copier@humboldtcountyia.org]
Sent: Tuesday, April 04, 2017 5:11 PM
To: Peggy Rice <price@humboldtcountyia.org>
Subject: Message from Humb Co Auditor-KM bizhub C364



Garza, Cindy <cindy.garza@dnr.iowa.gov>

Re: Wacousta Finisher Farm Site IOD #63826

1 message

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To: Peggy Rice <price@humboldtcountyia.org> Wed, Apr 19, 2017 at 3:12 PM

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Subject: Message from Humb Co Auditor-KM bizhub C364



Garza, Cindy <cindy.garza@dnr.iowa.gov>

RE: Wacousta Finisher Farm Site IOD #63826

1 message

Peggy Rice <price@humboldtcountyia.org>
Thu, Apr 20, 2017 at 3:56 PM
To: "Garza, Cindy" <cindy.garza@dnr.iowa.gov>

Cindy- I will not see the Chairman of the board until Monday to get this signed. Is that O.K.?

Peggy J. Rice
Humboldt County Auditor
203 Main St.
P.O. Box 100
Dakota City, IA 50529
515-332-1571
515-332-1738 (fax)
price@humboldtcountyia.org

From: Garza, Cindy [mailto:cindy.garza@dnr.iowa.gov]
Sent: Thursday, April 20, 2017 3:32 PM
To: Peggy Rice <price@humboldtcountyia.org>
Subject: Re: Wacousta Finisher Farm Site IOD #63826

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Thank you
Cindy

Cindy M Garza | Environmental Engineer
Field Office 2
Iowa Department of Natural Resources
P 641-424-4073 | F 641-424-9342 | 2300 15th St SW, Mason City, IA 50401 www.iowadnr.gov

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Peggy J. Rice
Humboldt County Auditor
203 Main St.
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515-332-1571

515-332-1738 (fax)

price@humboldtcountyia.org

From: copier@humboldtcountyia.org [mailto:copier@humboldtcountyia.org]

Sent: Tuesday, April 04, 2017 5:11 PM

To: Peggy Rice <price@humboldtcountyia.org>

Subject: Message from Humb Co Auditor-KM bizhub C364



Garza, Cindy <cindy.garza@dnr.iowa.gov>

RE: FW: Humboldt supervisors still considering engineer's contract | News, Sports, Jobs - Messenger News

1 message

Kratchmer, Keith <kkratchmer@iowaselect.com>
To: "Garza, Cindy" <cindy.garza@dnr.iowa.gov>

Fri, Apr 7, 2017 at 8:01 AM

Wow, that's a stretch to turn 26c into a insufficient land based item!

From: Garza, Cindy [mailto:cindy.garza@dnr.iowa.gov]
Sent: Friday, April 7, 2017 7:52 AM
To: Kratchmer, Keith <kkratchmer@iowaselect.com>

Subject: Re: FW: Humboldt supervisors still considering engineer's contract | News, Sports, Jobs - Messenger News

thanks!



Cindy M Garza | Environmental Engineer
Field Office 2
Iowa Department of Natural Resources
P 641-424-4073 | F 641-424-9342 | 2300 15th St SW, Mason City, IA 50401 www.iowadnr.gov

On Thu, Apr 6, 2017 at 3:38 PM, Kratchmer, Keith <kkratchmer@iowaselect.com> wrote:

Cindy,

I talked to Tim and he said there were no changes to the submitted documents. He told me Adam mentioned something about the driveway but he made no commitment to a change. Can you please send me the documents submitted by Humboldt County.

Thanks

Keith

From: Pflner, Kent

Sent: Tuesday, April 4, 2017 7:41 PM
To: Kratchmer, Keith <kkratchmer@iowaselect.com>
Subject: FW: Humboldt supervisors still considering engineer's contract | News, Sports, Jobs - Messenger News

Read the last paragraph on the Wacousta site.

From: dpflner57@gmail.com [mailto:dpflner57@gmail.com]
Sent: Tuesday, April 4, 2017 7:31 PM
To: Pflner, Kent <kpflner@iowaselect.com>
Subject: Humboldt supervisors still considering engineer's contract | News, Sports, Jobs - Messenger News

Humboldt supervisors still considering engineer's contract | News, Sports, Jobs - Messenger News

Tuesday, April 4, 2017
7:21 PM

THE Messenger

Members still considering engineers' contract

By [Name] [Date]

Members of the [Organization] are still considering the proposed contract with the [Union]. The contract includes provisions for [Details].

The contract also addresses [Details]. Members are encouraged to [Action].

For more information, contact [Contact Info].

Members are urged to [Action].

The contract provides for [Details].

Members should [Action].

The contract includes [Details].

Members are asked to [Action].

The contract offers [Details].

Members should [Action].

The contract provides [Details].

Members are urged to [Action].

The contract includes [Details].

Members should [Action].

The contract offers [Details].

Members are asked to [Action].

The contract provides [Details].

Members are urged to [Action].

The contract includes [Details].

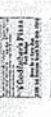
Members should [Action].

The contract offers [Details].

Members are asked to [Action].

The contract provides [Details].

Members are urged to [Action].





Garza, Cindy <cindy.garza@dnr.iowa.gov>

Re: FW: Wacousta Finisher Farm Site IOD #63826

1 message

Book, Kelli <kelli.book@dnr.iowa.gov>
To: "Pettiti, Paul" <paul.pettiti@dnr.iowa.gov>
Cc: "Garza, Cindy" <cindy.garza@dnr.iowa.gov>, Gene Tinker <gene.tinker@dnr.iowa.gov>, Daniel Watterson <daniel.watterson@dnr.iowa.gov>, Jason Marcel <jason.marcel@dnr.iowa.gov>

Thu, Apr 6, 2017 at 10:06 AM

I agree with Paul, since the County failed the Matrix the DNR will now do an independent review of the Matrix to determine if it passes or fails.

As far as the Ordinance, the County can require whatever they want and the producers can follow the requirements or not. However in this case the DNR will not recognize the requirements of this ordinance. The ordinance exceeds what is required by DNR law - the code and regulations do not require that the agreements, leases, contracts be filed with the County. County ordinances that exceed what the code/male allows are not enforceable by the DNR. Therefore, the fact that the producer did not comply with this ordinance should not factor into the scoring of the Matrix.

And on a sidenote, the negotiations between the county and the producer should really occur before the recommendation from the county comes to the DNR.

Any questions let me know - Kelli

On Thu, Apr 6, 2017 at 9:07 AM, Pettiti, Paul <paul.pettiti@dnr.iowa.gov> wrote:

Since we have a County recommendation we probably should proceed with independent matrix scoring since Iowa Select indicated they will not comply with the County request and Humboldt County will not entertain working with the applicant without the recordings.

Is the site survey they are referring to our (DNR) site survey? Would the County get a copy if they accompanied Daniel at the site survey?

In the meantime I agree that perhaps Kelli should review the County ordinance and determine if it is enforceable.

thanks



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

On Thu, Apr 6, 2017 at 8:31 AM, Garza, Cindy <cindy.garza@dnr.iowa.gov> wrote:
I'm not clear on what the county is trying to do.



Cindy M Garza | Environmental Engineer
Field Office 2
Iowa Department of Natural Resources
P 641-424-4073 | F 641-424-9342 | 2300 15th St SW, Mason City, IA 50401
www.iowadnr.gov

----- Forwarded message -----
From: **Watterson, Daniel** <daniel.watterson@dnr.iowa.gov>
Date: Wed, Apr 5, 2017 at 4:39 PM
Subject: Re: FW: Wacousta Finisher Farm Site IOD #63826
To: "Garza, Cindy" <cindy.garza@dnr.iowa.gov>

Well I guess they could argue that in order for them to track this item on the county side, they would need a database of the fields. Send it to the lawyers and let them fight it out.



Daniel Watterson | Environmental Specialist
Field Office 2
Iowa Department of Natural Resources
P 641-424-4073 | F 641-424-9342
2300 15th St. SW, Mason City, IA 50401
www.iowadnr.gov

On Wed, Apr 5, 2017 at 4:35 PM, Garza, Cindy <cindy.garza@dnr.iowa.gov> wrote:

26 e



Cindy M Garza | Environmental Engineer
Field Office 2
Iowa Department of Natural Resources
P 641-424-4073 | F 641-424-9342 | 2300 15th St SW, Mason City, IA 50401
www.iowadnr.gov

On Wed, Apr 5, 2017 at 4:34 PM, Watterson, Daniel <daniel.watterson@dnr.iowa.gov> wrote:
What matrix item are they claiming this relates too?



Daniel Watterson | Environmental Specialist
Field Office 2
Iowa Department of Natural Resources
P 641-424-4073 | F 641-424-9342
2300 15th St. SW, Mason City, IA 50401
www.iowadnr.gov

On Wed, Apr 5, 2017 at 4:24 PM, Garza, Cindy <cindy.garza@dnr.iowa.gov> wrote:



Cindy M Garza | Environmental Engineer
Field Office 2
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www.iowadnr.gov

----- Forwarded message -----
From: Peggy Rice <price@humboldtcountyia.org>
Date: Wed, Apr 5, 2017 at 4:20 PM
Subject: RE: FW: Wacousta Finisher Farm Site IOD #63826
To: "Garza, Cindy" <cindy.garza@dnr.iowa.gov>

Yes, please find it attached.

Peggy J. Rice
Humboldt County Auditor
203 Main St.
P.O. Box 100
Dakota City, IA 50529
515-332-1571
515-332-1738 (fax)
price@humboldtcountyia.org

From: Garza, Cindy [mailto:cindy.garza@dnr.iowa.gov]
Sent: Wednesday, April 05, 2017 4:13 PM
To: Peggy Rice <price@humboldtcountyia.org>
Subject: Re: FW: Wacousta Finisher Farm Site IOD #63826

Can I get a copy of Ordinance #65?

Thank you
Cindy



Cindy M Garza | Environmental Engineer
Field Office 2
Iowa Department of Natural Resources
P 641-424-4073 | F 641-424-9342 | 2300 15th St SW, Mason City, IA 50401
www.iowadnr.gov

On Wed, Apr 5, 2017 at 8:54 AM, Peggy Rice <price@humboldtcountyia.org> wrote:

Cindy – I contacted Melody Larson who is the person in charge for confinements in our county and below is her reply.

Peggy J. Rice
Humboldt County Auditor
203 Main St.
P.O. Box 100
Dakota City, IA 50529
515-332-1571
515-332-1738 (fax)
price@humboldtcountyia.org

From: Melody Larson
Sent: Wednesday, April 05, 2017 8:07 AM
To: Peggy Rice <price@humboldtcountyia.org>
Subject: RE: Wacousta Finisher Farm Site IOD #63826

I believe that if we receive the site survey and Wacousta Farms record their MMP in the Recorders Office as the Resolution states; then I believe that the BOA will work with them. Unfortunately this has been an ongoing issue with this company. They have refused to follow our County Ordinances.

From: Peggy Rice
Sent: Tuesday, April 4, 2017 4:39 PM
To: Melody Larson <MLarson@humboldtcountyia.onmicrosoft.com>
Subject: FW: Wacousta Finisher Farm Site IOD #63826

Melody – Please see Cindy's comment below. I am assuming we are willing to work with them, your thoughts?

Peggy J. Rice
Humboldt County Auditor
203 Main St.
P.O. Box 100

Dakota City, IA 50529
515-332-1571
515-332-1738 (fax)
price@humboldtcountyia.org

From: Garza, Cindy [mailto:cindy.garza@dnr.iowa.gov]
Sent: Tuesday, April 04, 2017 4:36 PM
To: Peggy Rice <price@humboldtcountyia.org>
Subject: Re: Wacousta Finisher Farm Site IOD #63826

thank you!

Is the county willing to work with the applicant to get a passing score on the matrix?

Cindy



Cindy M Garza | Environmental Engineer
Field Office 2
Iowa Department of Natural Resources
P 641-424-4073 | F 641-424-9342 | 2300 15th St SW, Mason City, IA 50401
www.iowadnr.gov

On Tue, Apr 4, 2017 at 4:27 PM, Peggy Rice <price@humboldtcountyia.org> wrote:

Cindy – Please find attached the Board of Supervisors recommendation for the Wacousta Finisher Farm Site, Facility #63826. The original is in the mail to you.

If you have any questions, please let me know.

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203 Main St.
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Dakota City, IA 50529
515-332-1571
515-332-1738 (fax)
price@humboldtcountyia.org

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Sent: Tuesday, April 04, 2017 8:11 PM
To: Peggy Rice <price@humboldtcountyia.org>
Subject: Message from Humb Co Auditor-KM bizhub C364



Kelli Book | Attorney II
Iowa Department of Natural Resources
Air Quality 515-725-9572 | Wallace 515-725-8252
7900 Hickman Road, Suite 1 Windsor Heights, Iowa 50324
www.iowadnr.gov



Garza, Cindy <cindy.garza@dnr.iowa.gov>

Iowa Department of Natural Resources
P 641-424-4073 | F 641-424-9342 | 2300 15th St SW, Mason City, IA 50401 www.iowadnr.gov



RE: Humboldt County

1 message

Kratchmer, Keith <kkkratchmer@iowaselect.com>
To: 'Garza, Cindy' <cindy.garza@dnr.iowa.gov>

Tue, Mar 28, 2017 at 11:22 AM

Cindy,

The meeting last night was the County Zoning Board of Adjustment holding the public hearing. The BOS meeting is on the 6th and they will follow the recommendation of the BOA. BOA members were also attacking the farmer we apply manure from the site. As long as what they are doing does not interfere with your work I will just let it go but some of their demands are getting ridiculous.

Thanks

Keith

From: Garza, Cindy [mailto:cindy.garza@dnr.iowa.gov]
Sent: Tuesday, March 28, 2017 9:07 AM
To: Kratchmer, Keith <kkkratchmer@iowaSelect.com>
Subject: Re: Humboldt County

So are they going to have another meeting? They have to score the matrix by the 6th?

All I need is the proof of publication and their score.

I don't feel that they should bring all this up at the meeting.

At least Floyd Co is having this discussion before the BOS meeting.

Did they speak to you before the meeting?

Cindy M Garza | Environmental Engineer
Field Office 2

On Tue, Mar 28, 2017 at 8:45 AM, Kratchmer, Keith <kkkratchmer@iowaselect.com> wrote:

Cindy,

Humboldt County is being there usually power hungry group. Their planning and zoning recommended denial of the Waccousta permit last night based on the fact there was not a survey, this is an existing site so it is not too complicated. Two easements that were existing in the plan were not recorded and we had not submitted their required six copies of all the documents. One of my staff members was run through the wringer regarding their ridiculous requirements. There was no discussion about the one thing they have any authority, the Master Matrix. In addition, they also want us to notify them every time we move a field between plans. There resolutions do not trump state law and we are not going accept this garbage from Humboldt County.

Thanks

Keith Kratchmer, CCA
Environmental Compliance Officer
Iowa Select Farms
824 Brooks Road, Suite B
Iowa Falls, IA 50126
Direct line 641-316-3245



Garza, Cindy <cindy.garza@dnr.iowa.gov>

Re: Wacousta Finisher Farm - #63826 Humboldt Co

1 message

Book, Kelli <kelli.book@dnr.iowa.gov>

Tue, Mar 7, 2017 at 8:53 AM

To: "Garza, Cindy" <cindy.garza@dnr.iowa.gov>

Nothing for any of the parties. Kelli

On Mon, Mar 6, 2017 at 5:08 PM, Garza, Cindy <cindy.garza@dnr.iowa.gov> wrote:

Hi Kelli

Any pending enforcement actions against any on the attached?

thanks
Cindy



Cindy M Garza | Environmental Engineer
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Iowa Department of Natural Resources
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Garza, Cindy <cindy.garza@dnr.iowa.gov>

Application for Wacousta Finisher Farm - #63826 Humboldt Co

1 message

Garza, Cindy <cindy.garza@dnr.iowa.gov>

Tue, Mar 7, 2017 at 2:01 PM

To: Humboldt Co Auditor - Peggy Rice <price@humboldtcountyia.org>

Hi Peggy, I faxed this as well. This one has probably been in your office for a few days. The notice now also contains a sample County recommendation page for your use if desired.

I, Cindy Garza, in the Mason City office, will be reviewing this project. Let me know if you have any questions.

thank you

Cindy



Cindy M Garza | Environmental Engineer
Field Office 2
Iowa Department of Natural Resources
P 641-424-4073 | F 641-424-9342 | 2300 15th St SW, Mason City, IA 50401
www.iowadnr.gov

63826_County Notice_030717.pdf
478K

June 14, 2017

direct phone: 515-242-2493

direct fax: 515-323-8593

email: amyjohnson@brownwinick.com

VIA HAND-DELIVERY

Mr. Chuck Gipp, Director
Iowa Department of Natural Resources
Henry A. Wallace Building, 502 E. 9th Street
Des Moines, IA 50319-0034

Re: *Appeal of DNR Notice of Intent to Issue Construction Permit for Brookglade Farms, LLC*
("Brookglade") (Facility ID 63826)

Dear Mr. Gipp:

This letter is in response to the Humboldt County Board of Supervisors' ("Humboldt County") Demand for Hearing submitted to the Iowa Department of Natural Resources ("DNR") by Humboldt County Attorney Jonathan Beaty on May 26, 2017 (the "Demand"). The purpose of the Demand is to appeal the decision of the DNR to issue a construction permit (the "Permit") to construct one (1) new swine confinement finishing building as an *expansion* of the existing Wacousta Finisher Farm (Facility ID 63826) located in the SE $\frac{1}{4}$ of the SW $\frac{1}{4}$ of Section 33, T93N, R30W, Wacousta Township, Humboldt County, Iowa (the "Wacousta Finisher"). The existing Wacousta Finisher was constructed in 2007.

Humboldt County sets forth four arguments in its Demand for why Brookglade should be denied the Permit, those arguments and Brookglade's responses are as follows:

1. *"This approval was based on the DNR allowing this manure management plan to share fields with another manure management plan."*

Humboldt County's assertion that the manure management plan for the Wacousta Finisher and another manure management plan "share fields" is factually inaccurate. Enclosed with this letter and marked as Exhibit "A" is a map that shows the fields included in the Wacousta Finisher manure management plan outlined in green and the fields included in the manure management plan for the only other CAFO owned by Brookglade in Humboldt County (the "Elmer Finisher") outlined in blue. As is obvious from the enclosed map, there are no shared fields between the manure management plans for the Wacousta Finisher and the Elmer Finisher. As a point of clarification, there is a single field marked as F710-01 on Exhibit "A" that was previously a part of the manure management plan for the Wacousta Finisher and is now a part of the manure

Mr. Chuck Gipp, Director
June 14, 2017
Page 2

management plan for the Bay Finisher Site (Facility ID 69126), a nearby site owned by Peacock Farms V, LLC.

2. *“Brookglade Farms has the same manure management plan for two different swine confinements.”*

Humboldt County’s assertion that the Wacousta Finisher has the same manure management plan as another CAFO is factually inaccurate. Enclosed with this letter and marked as Exhibit “B” are the relevant pages of the manure management plan for the Wacousta Finisher; further, enclosed with this letter and marked as Exhibit “C” are the relevant pages of the manure management plan for the Elmer Finisher. The Wacousta Finisher and the Elmer Finisher are the only two CAFOs owned by Brookglade in Humboldt County and, as is obvious from the enclosed manure management plans, each has a separate and distinct manure management plan.

3. *“Humboldt County implemented a requirement that any application for a confinement construction permit be filed with additional copies...Brookglade Farms refused to follow this requirement.”*

Brookglade has no obligation to comply with any county-level requirements which purport to regulate livestock production operations because any such county-level requirements are preempted by state law and void. Iowa Code section 331.304A(2) states, “A county shall not adopt or enforce county legislation regulating a condition or activity occurring on land used for the production, care, feeding, or housing of animals....County legislation adopted in violation of this section is *void and unenforceable* (emphasis added) and any enforcement activity conducted in violation of this section is void....A condition or activity occurring on land used for the production, care, feeding, or housing of animals includes but is not limited to the construction, operation, or management of an animal feeding operation structure, or aerobic structure, and to the storage, handling, or application of manure or egg washwater.” The language of the statute expressly preempts the regulation of a condition or activity occurring on land used for the production, care, feeding or housing of animals. Further, the Iowa Supreme Court has gone on to say that this statute reveals a clear intent by our legislature to vest the regulation of livestock operations in Iowa solely within the DNR, and not at the county level. *Worth County Friends of Agric. v. Worth County*, 688 N.W.2d 257 (Iowa 2004). Because county-level requirements which purport to regulate livestock production operations are void and unenforceable, Brookglade has no obligation to comply with any such county-level requirements.

Further, Humboldt County’s argument as to Brookglade’s noncompliance with the county “requirement” illustrates the precise confusion that the Iowa Supreme Court was seeking to eliminate in *Worth County*. In *Worth County*, one of the stated purposes for the preemption doctrine is “the need to prevent dual regulation which would result in uncertainty and confusion.” The “requirement” that Humboldt County is seeking to enforce through the Iowa Environmental Protection Commission (the “EPC”) is Humboldt County Ordinance #65. As of the date of this letter, the Humboldt County Ordinance #65 is not published or publicly available

Mr. Chuck Gipp, Director
June 14, 2017
Page 3

on the Humboldt County website with other applicable ordinances. Further, Ordinance #65 in no way references “additional copies” as was indicated in the Demand. Additionally, Ordinance #65’s stated purpose is not as set forth in the Demand to “help streamline the process and to save time and money.” Rather, the stated purpose of Ordinance #65 as set forth in Ordinance #65 itself, is “to establish a database and an informational tracking record for individual properties both as to specific livestock operations and as to lands which from time to time may have livestock waste disposal and disbursement agreements affecting them.” There is clear indication that this Humboldt County “requirement” which is neither published nor comports with the arguments set forth by Humboldt County is cause for great uncertainty and confusion; precisely, the problem the Iowa Supreme Court was seeking to eliminate in *Worth County*.

4. *“Humboldt County also required a site survey...Brookglade Farms failed to submit the site survey....”*

See the analysis set forth in #3 above.

In conclusion, pursuant to Iowa Code section 459.305, the master matrix *is* meant to be used to determine the appropriate location to construct a CAFO structure and the appropriate type of structure. The master matrix *is not* meant to be used as a tool to prohibit livestock producers who have complied with the applicable state laws from constructing and expanding sites. Further, the master matrix *is not* meant to be used as a deterrent to livestock producers who must deal with frivolous complaints that are not based in law or fact such as the complaints asserted by Humboldt County in the present matter. For those reasons, in addition to asking that the EPC uphold DNR’s decision to issue the Permit, we also ask that the EPC send a clear message to counties that attempt to subvert the master matrix requirements by revoking Humboldt County’s authority to use the master matrix and all other privileges associated with the adoption of the Construction Evaluation Resolution for the remainder of 2017.

Mr. Chuck Gipp, Director
June 14, 2017
Page 4

Thank you for your consideration of these comments. Please provide this letter and the enclosed materials to the members of the EPC for their review and consideration prior to the hearing on these matters scheduled for the EPC's meeting to be held on June 20, 2017.

Very truly yours,

A handwritten signature in cursive script that reads "Amy A. Johnson". The signature is written in black ink and is positioned to the right of the typed name.

Amy A. Johnson

Attachments

cc: Kelli Book, Attorney Iowa Department of Natural Resources
Jonathan Beaty, Humboldt County Attorney
Keith Kratchmer, Brookglade Farms, LLC
Mike Blaser, BrownWinick

Wacousta Finisher Farm Fields & Surrounding Farms

EXHIBIT A

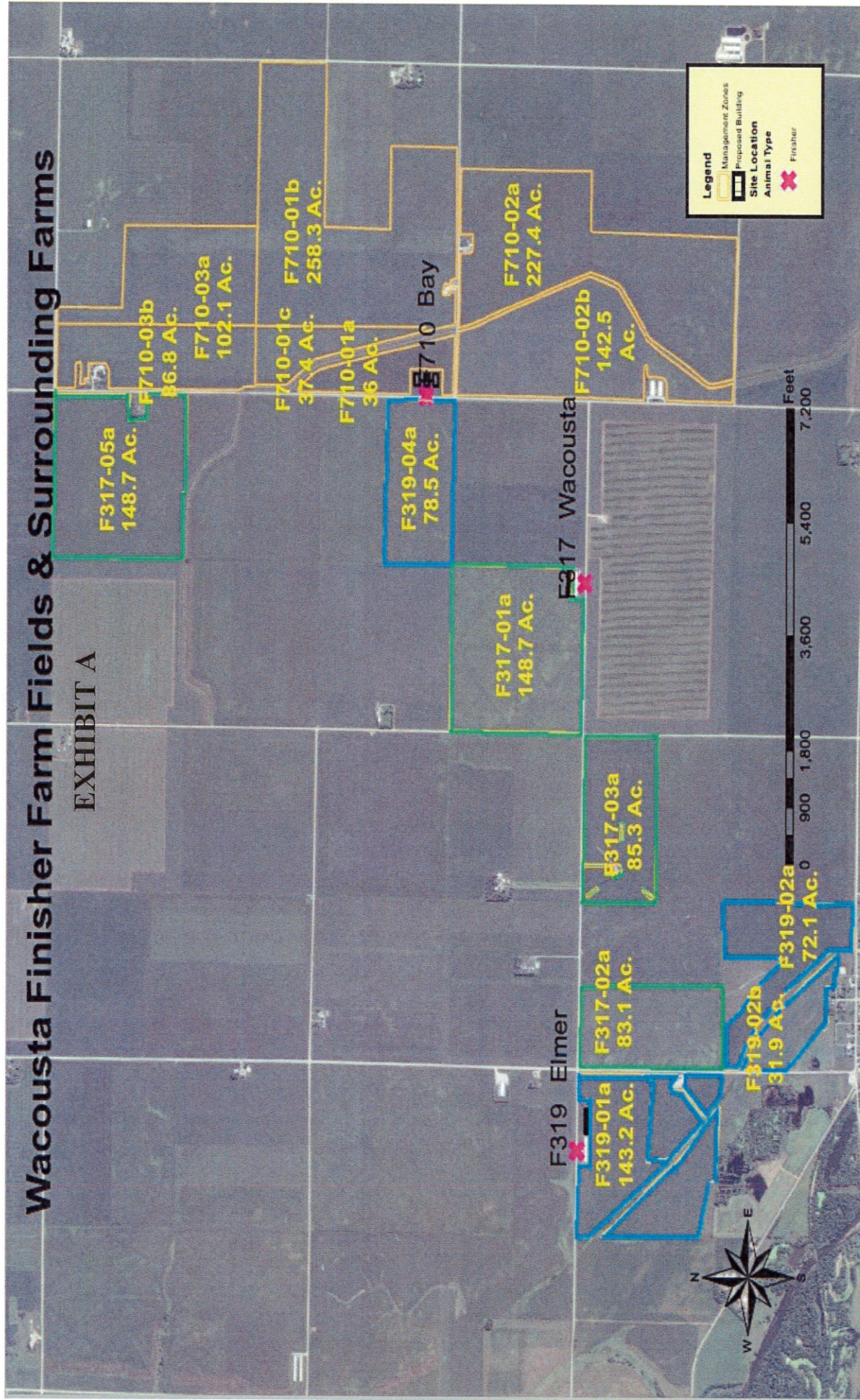


EXHIBIT B

Manure Management Plan Form Operation Information

Instructions: Complete this form for your animal feeding operation. Endnotes are provided on pages 4-6.

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 nutrient management plan 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.

Brookglade Farms, LLC by: Keith Kratchmer (Signature) Keith Kratchmer (Print Name) Date: 2/23/2017

Name of operation: Wacousta, Finisher Farm Facility ID No. 63826

Location of the operation: 1247 160th Street
* An example of a legal description is available on page 3 of the Introduction and Instructions. (911 Address)

Bradgate IA 50520
(Town) (State) (Zip Code)

SE 1/4 1/4 of the SW 1/4 1/4 of Sec 33 T T93N R R30W Wacousta Humboldt
(1/4 1/4) (1/4) (Section) (Tier) (Range) (Township Name) (County)

Owner and Contacts of the animal feeding operation:

Owner Brookglade Farms, LLC Phone 641-648-5067

Address 824 Brooks Road, Iowa Falls, IA 50126

Email (optional) _____ Cell phone (optional) _____

Contact person (if different than owner) Keith Kratchmer Phone 641-648-4479

Address 824 Brooks Road, Iowa Falls, IA 50126

Email (optional) _____ Cell phone (optional) _____

Contract Company _____ Phone _____

Address _____

This nutrient management plan is for: (check one)

- existing operation, not expanding existing operation, expanding
 existing operation, new owner new operation

Construction and Expansion Dates: June 1, 2005 date of initial construction
 _____ and date(s) of all expansion(s)

Table 1. Information about livestock production and nutrient management system

1 Animal Type/Production phase ^a	2 Max Number of Animals Confined (head)	3 Manure Storage Structure ^b	4		6 gal/space/day or ton/space/yr ^d	7 Days/yr Facility Occupied	8 Annual Manure Production ^e (gal or tons)
			N ^c	P ₂ O ₅ ^c			
			lb/1000 gal	lb/ton			
Wean/Finish	5,000	Indoor Formed	47.00	39.00	0.70	365	1,277,500
Total Gallons							1,277,500
Total Tons							

Estimate of Annual Animal Production^f: 10,000 animals/year

Source of Nutrient Content Data (columns 4, 5): standard tables, analysis of manure samples, other: _____

The nutrient concentrations are based on Iowa Select Farms standards, which have been approved by the IDNR. Actual values will be used for application rates.

EXHIBIT B

Manure Management Plan Form

Determining Maximum Allowable Manure Application Rates

Page 2

Instructions: Complete a worksheet for each unique combination of the following factors (crop rotation, optimum crop yield, manure nutrient concentration, remaining crop N need, method of application) that occurs at this operation. Endnotes are given on pages 4-6.

Management Identification (Mgt ID)^g: Corn-Corn-Beans
(Identify this application scenario by letter, refer to endnote g)

Method used to determine optimum yield^h: County Average + 10% Timing of Application: Spring, Fall(Summer)

Method of Applicationⁱ: Direct Injection with Tank Application Loss Factorⁱ: 0.9800

If spray irrigation is used, identify methodⁱ: _____

Table 2. Manure Nutrient Concentration

Manure Nutrient Content (lbs/1000gal or lbs/ton)				
Manure Storage Structure(s) ^k		Indoor Formed		
Total N	47.00	P ₂ O ₅	39.00	
% TN available 1st year ^l	100	% 2 nd year	% 3 rd year	
Available N 1 st year ^m	46.1	2 nd year ⁿ	3 rd year ^o	

Table 3. Crop Usage Rates^p

(lbs/bu or lbs/ton)	N	P ₂ O ₅
Corn	1.20	0.32
Soybean	3.8	0.72
Alfalfa	50	13

* 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) ^q		Corn	Beans	Corn	Corn
2	Optimum Crop Yield ^h	bu or ton/acre	188.9	53.2	188.9	188.9
3	P ₂ O ₅ removed with crop by harvest ^f	lb/acre	60.4	38.3	60.4	60.4
4	Crop N utilization ^s	lb/acre	226.7	202.2	226.7	226.7
5a	Legume N credit ^t	lb/acre	0.0	0.0	50.0	0.0
5b	Commercial N planned ^u	lb/acre	0	0	0	0
5c	Manure N carryover credit ^v	lb/acre	0	0	0	0
6	Remaining crop N need ^w	lb/acre	226.7	100.0	176.7	226.7
7	Manure rate to supply remaining N ^x	gal/acre or ton/acre	4,917.1	2,169.2	3,832.5	4,917.1
8	P ₂ O ₅ applied with N-based rate ^y	lb/acre	191.8	84.6	149.5	191.8

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

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

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

13	Planned Manure Application Rate ^{dd}	gal/acre or ton/acre	4,917.1	2,169.2	3,832.5	4,917.1
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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.

(>5-10) Until December 31, 2008, P-based manure management while adopting practices to reduce P index to 5 or below.

(>10) No manure application until practices are adopted to reduce P index to 5 or below.

EXHIBIT B

Manure Management Plan Form Year by Year Nutrient Management Plan Summary

Page 3

Instructions: Complete this form for each of the next five growing seasons, to demonstrate sufficient land base to apply manure over multiple crop years. If this page is identical for multiple years (e.g. every other year), submit only once for the identical years, and indicate which years the form represents. Endnotes are given on pages 4-6.

Crop Year(s): 2017

1	2	3	4	5	6	7	8	9	10	11	
Field Designation ^{ae}	Field Location Township Name _____ 1/4 Sec _____ T _____ R _____ County Name _____	Mgt ID ^{ai}	Planned Crop	Acres receiving manure ^{af}	Own, rent, or agreement (include length of agreement) ^{ah}	P Index Value ^{aj}	HEL (Yes or No) ^{al}		Planned Application ^{ak}		Correct Soil Test for P ^{am} (Yes or No)
							<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Gal or ton/acre	Gal or ton/field	
F317-01a	SW ¼, 33, T93N-R30W, Humboldt	CCB	Corn	150.7	Easement	0.11	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	4,917.1	741,012	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
F317-02a	W ½ of NW ¼, 5, T92N-R30W, Humboldt	CCB	Corn	83.1	Easement	0.11	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	4,917.1	408,614	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
F317-03a	N ½ of NE ¼, 5, T92N-R30W, Humboldt	CCB	Corn	85.3	Easement	0.10	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	3,832.5	326,915	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
F317-05a	NE ¼, 28, T93N-R30W, Humboldt	CCB	Corn	148.7	Easement	0.14	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	3,832.5	569,898	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
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							<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Total acres available for manure application				467.8			Total Gallons that could be applied		2,046,440		
Total tons that could be applied											

EXHIBIT C

Manure Management Plan Form Operation Information

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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 nutrient management plan 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.

Brookglade Farms, LLC by *Del Johnston* Del Johnston Date: 18-August-2016
(Signature) (Print Name)

Name of operation: Elmer, Finisher Farm Facility ID No. 63827

Location of the operation: 1076 160th Street
* An example of a legal description is available on page 3 of the Introduction and Instructions. (911 Address)

Bradgate IA 50520
(Town) (State) (Zip Code)

N $\frac{1}{2}$ 1/4 of the NE $\frac{1}{4}$ 1/4 of Sec 6 T T92N R R30W Avery Humboldt
(1/4 1/4) (1/4) (Section) (Tier) (Range) (Township Name) (County)

Owner and Contacts of the animal feeding operation:

Owner Brookglade Farms, LLC Phone 641-648-5067

Address 824 Brooks Road, Iowa Falls, IA 50126

Email (optional) _____ Cell phone (optional) _____

Contact person (if different than owner) Keith Kratchmer Phone 641-648-4479

Address 824 Brooks Road, Iowa Falls, IA 50126

Email (optional) _____ Cell phone (optional) _____

Contract Company _____ Phone _____

Address _____

This nutrient management plan is for: (check one)

- existing operation, not expanding existing operation, expanding
 existing operation, new owner new operation

Construction and Expansion Dates: June 1, 2005 date of initial construction
_____ and date(s) of all expansion(s)

Table 1. Information about livestock production and nutrient management system

1 Animal Type/Production phase ^a	2 Max Number of Animals Confined (head)	3 Manure Storage Structure ^b	4		6 gal/space/day or ton/space/yr ^d	7 Days/yr Facility Occupied	8 Annual Manure Production ^e (gal or tons)
			N ^c lb/1000 gal	P ₂ O ₅ ^c lb/ton			
Wean/Finish	5,000	Indoor Formed	47.00	39.00	0.70	365	1,277,500
Total Gallons							1,277,500
Total Tons							

Estimate of Annual Animal Production^f: 10,000 animals/year

Source of Nutrient Content Data (columns 4, 5): standard tables, analysis of manure samples, other:

The nutrient concentrations are based on Iowa Select Farms standards, which have been approved by the IDNR. Actual values will be used for application rates.

EXHIBIT C

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. Endnotes are given on pages 4-6.

Management Identification (Mgt ID)^g: Corn-Corn-Corn-Corn-Beans
(Identify this application scenario by letter, refer to endnote g)

Method used to determine optimum yield^h: County Average + 10% Timing of Application: Spring, Fall(Summer)

Method of Applicationⁱ: Direct Injection with Tank Application Loss Factor^j: 0.9800

If spray irrigation is used, identify method^k: _____

Table 2. Manure Nutrient Concentration

Manure Nutrient Content (lbs/1000gal or lbs/ton)			
Manure Storage Structure(s) ^k		Indoor Formed	
Total N	47.00	P ₂ O ₅	39.00
% TN available 1st year ^l	100	% 2 nd year	% 3 rd year
Available N 1 st year ^m	46.1	2 nd year ⁿ	3 rd year ^o

Table 3. Crop Usage Rates^p

(lbs/bu or lbs/ton)	N	P ₂ O ₅
Corn	1.20	0.32
Soybean	3.8	0.72
Alfalfa	50	13

* Use blank space above to add crop not listed

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

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2	Optimum Crop Yield ^h	bu or ton/acre	188.9	53.2	188.9	188.9
3	P ₂ O ₅ removed with crop by harvest ^r	lb/acre	60.4	38.3	60.4	60.4
4	Crop N utilization ^s	lb/acre	226.7	202.2	226.7	226.7
5a	Legume N credit ^t	lb/acre	0.0	0.0	50.0	0.0
5b	Commercial N planned ^u	lb/acre	0	0	0	0
5c	Manure N carryover credit ^v	lb/acre	0	0	0	0
6	Remaining crop N need ^w	lb/acre	226.7	100.0	176.7	226.7
7	Manure rate to supply remaining N ^x	gal/acre or ton/acre	4,917.1	2,169.2	3,832.5	4,917.1
8	P ₂ O ₅ applied with N-based rate ^y	lb/acre	191.8	84.6	149.5	191.8

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

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(>10) No manure application until practices are adopted to reduce P index to 5 or below.

EXHIBIT C

Manure Management Plan Form Year by Year Nutrient Management Plan Summary

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Crop Year(s): 2017

1 Field Designation ^{6c}	2 Field Location <u> </u> 1/4 Sec. <u> </u> T. <u> </u> R. <u> </u> County Name <u> </u>			3 Mgt ID ⁴	4 Planned Crop	5 Acres receiving manure ^{6d}	6 Own, rent, or agreement (include length of agreement) ^{6a}	7 P Index Value ^{6f}	8 HEL (Yes or No) ^{6j}	9 Planned Application ^{6k}		11 Correct Soil Test for P ⁶ⁱ (Yes or No)
	Gal or ton/acre		Gal or ton/field									
F319-01a	NE 1/4, T92N-R30W, Humboldt			CC	Corn	143.2	Easement	0.95	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	4,917.1	704,134	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
F319-02a	N 1/2 of SW 1/4, 5, T92N-R30W, Humboldt			CCCCB	Corn	72.1	Easement	0.51	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	4,917.1	354,526	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
F319-02b	N 1/2 of SW 1/4, 5, T92N-R30W, Humboldt			CCCCB	Corn	31.9	Easement	0.54	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	4,917.1	156,857	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
F319-04a	E 1/4, 33, T93N-R30W, Humboldt			CCCCB	Corn	78.5	Easement	0.48	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	3,832.5	300,854	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
									<input type="checkbox"/> Yes <input type="checkbox"/> No			<input type="checkbox"/> Yes <input type="checkbox"/> No
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Agenda

Environmental Protection Commission

Tuesday, June 20, 2017
DNR Air Quality
7900 Hickman Road
Windsor Heights, Iowa

Tuesday, June 20, 2017

10:00 AM – EPC Business Meeting

1:00 PM – Demand for Hearing

Public Participation¹ – Requests to speak during the business meeting Public Participation must be submitted to Jerah Sheets at Jerah.Sheets@dnr.iowa.gov, 502 East 9th Des Moines, IA 50319, 515-313-8909, or in-person by the start of the business meeting. Please indicate who you will be representing (yourself, an association, etc.), the agenda item of interest, and your stance of For, Opposed, or Neutral.

If you are unable to attend the business meeting, comments may be submitted via mail and email for the public record. The Commission encourages data, reports, photos, and additional information provided by noon the day before the meeting to allow ample time for review and consideration.

- | | | |
|----|---|-----------------------------------|
| 1 | Approval of Agenda | |
| 2 | Oath of Office & Election of Officers | |
| 3 | Approval of Minutes | |
| 4 | Monthly Reports | Bill Ehm
(Information) |
| 5 | Public Participation | |
| 6 | Director's Remarks | Chuck Gipp
(Information) |
| 7 | Contract Amendments with Wapsi Valley Archaeology and The University of Iowa, Office of State Archaeologist for Archaeological and Architectural History Services | Patti Cale-Finnegan
(Decision) |
| 8 | Clean Water and Drinking Water State Revolving Loan Fund – FY 2018 Intended Use Plans | Patti Cale-Finnegan
(Decision) |
| 9 | Contract with Hy-Vee, Inc. (Charles City) for 2017 Project AWARE Catering | Roger Bruner
(Decision) |
| 10 | Contract with Contract with State Hygienic Laboratory at The University of Iowa for Ambient Stream Biological Monitoring and Laboratory Services | Roger Bruner
(Decision) |
| 11 | Contract with The University of Iowa on behalf of the State Hygienic Laboratory for Ambient Stream Monitoring Services FY2018 | Roger Bruner
(Decision) |
| 12 | Contract with the Iowa Department of Agriculture and Land Stewardship for the Protect Rathbun Lake Project | Steve Hopkins
(Decision) |
| 13 | Contract with Iowa State University Extension and Outreach for Manure Applicator Certification Training | Gene Tinker
(Decision) |
| 14 | Contract Amendment with the University of Iowa for Mapping Review Services | Kathryne Clark
(Decision) |

15	Contract Amendment #2 with THE UNIVERSITY OF IOWA on behalf of THE STATE HYGIENIC LABORATORY (SHL) for Laboratory Services provide to the Iowa DNR Land Quality Bureau	Matt Culp (Decision)
16	Contract with THE UNIVERSITY OF IOWA on behalf of THE STATE HYGIENIC LABORATORY (SHL) for Laboratory Services provide to the Land Quality Bureau of –IDNR	Matt Culp (Decision)
17	Notice of Intended Action – Chapter 61 – Water Quality Standards (Updates to Wasteload Allocation Procedure and <i>E. Coli</i> criteria)	Jon Tack (Decision)
18	2016 Diesel Emissions Reduction Grant Program – Round 2 Recommendations	Jim McGraw (Decision)
19	Contract with Windsor Solutions, Inc. for State & Local Emissions Inventory System (SLEIS) license agreement	Nick Page (Decision)
20	2018 Contract with Linn County Air Quality Division: Air Pollution Control in Linn County	Christine Paulson (Decision)
21	2018 Contract with Polk County Air Quality Division: Air Pollution Control in Polk County	Christine Paulson (Decision)
22	2018 Contract University of Northern Iowa – Iowa Air Emissions Assistance Program (IAEAP): Small Business Assistance Program	Christine Paulson (Decision)
23	Laboratory Certification Contract Amendment	Kathy Lee (Decision)
24	Rural Hub and Spoke Recycling Study Report	Michelle Leonard (Information)
25	Demand for Hearing – Humboldt County	
26	Contract with University of Iowa on behalf of the STATE HYGIENIC LABORATORY for 2018 SHL Services in Support of the DNR Air Quality Bureau	Sean Fitzsimmons (Decision)
27	General Discussion	
28	Items for Next Month’s Meeting <ul style="list-style-type: none"> • Tuesday, July 18, 2017 – EPC Business Meeting – Windsor Heights • Monday, August 14, 2017 – EPC Education Tour – Adams County • Tuesday, August 15, 2017 – EPC Business Meeting – Adams County 	

For details on the EPC meeting schedule, visit

<http://www.iowadnr.gov/InsideDNR/BoardsCommissions.aspx>

¹ Comments during the public participation period regarding proposed rules or notices of intended action are not included in the official comments for that rule package unless they are submitted as required in the Notice of Intended Action.

Any person attending the public meeting and has special requirements such as those related to mobility or hearing impairments should contact the DNR or ADA Coordinator at 515-725-8200, Relay Iowa TTY Service 800-735-7942, or Webmaster@dnr.iowa.gov, and advise of specific needs.

MINUTES
OF THE
ENVIRONMENTAL PROTECTION COMMISSION
MEETING
MAY 23, 2017
TELECONFERENCE

RECORD COPY

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Sender's initial: _____

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MEETING MINUTES

CALL TO ORDER

The meeting of the Environmental Protection Commission was called to order by Chairperson Mary Boote at 10:00 a.m. on May 23, 2017 via teleconference. Chair Boote expressed her appreciation to the Commission, DNR staff, and stakeholders for their flexibility with adjusting the meeting to a teleconference to efficiently utilize state resources. Pursuant to Iowa Code section 21.8 it was determined it was impractical for the commissioners to meet in person due to the anticipated travel time and expenses that would have been incurred by commissioners and state employees compared to the anticipated short duration of the meeting.

COMMISSIONERS PRESENT

Mary Boote, Chair
Nancy Couser
Howard Hill
Chad Ingels, Vice Chair
Ralph Lents
Joe Riding
Bob Sinclair

COMMISSIONERS ABSENT

Vacant Seat – Commerce and Finance
Vacant Seat – Manufacturing

ADOPTION OF AGENDA

Motion was made by Chad Ingels to postpone the Oath of Office and Election of Officers to the June EPC meeting because the current meeting was being held telephonically and because of the possibility that the new Governor may appoint two additional Commissioners by the next meeting. Seconded by Nancy Couser.

Chad Ingels-yea, Joe Riding-yea, Bob Sinclair-yea, Ralph Lents-yea, Howard Hill-yea, Nancy Couser-yea, and Mary Boote-yea. Motion passes.

Ed Tormey, DNR Legal Counsel, summarized Administrative Rule 567 IAC 1.6 that sets out that with 7 appointed Commissioners and 2 vacant seats, the Commission is required to have 5 members in attendance to make a quorum to host a public meeting but only 4 votes required to pass a motion.

Motion was made by Joe Riding to approve the agenda as amended. Seconded by Ralph Lents.

Chad Ingels-yea, Joe Riding-yea, Bob Sinclair-yea, Ralph Lents-yea, Howard Hill-yea, Nancy Couser-yea, and Mary Boote-yea. Motion passes.

APPROVED AS AMENDED

APPROVAL OF MINUTES

Motion was made by Bob Sinclair to approve the April 18, 2017 EPC meeting minutes. Seconded by Joe Riding.

Chad Ingels-yea, Joe Riding-yea, Bob Sinclair-yea, Ralph Lents-yea, Howard Hill-yea, Nancy Couser-yea, and Mary Boote-yea. Motion passes.

APPROVED AS PRESENTED

MONTHLY REPORTS

Bill Ehm thanked the Commissioners for the opportunity to meet on the telephone due to the little amount of business.

Bill Ehm summarized the federal and state process for determining budgets which start with the Governor or President announcing their recommendations while the House and Senate debate their proposals which are often different. The Department anticipates some sort of a cut from the federal partners but will not know for awhile. Currently the Department is watching the budget closely and holding vacancies from retirements open.

The following monthly reports have been posted on the DNR website under the appropriate meeting month:

<http://www.iowadnr.gov/InsideDNR/BoardsCommissions.aspx>

1. Variance Report
2. Bypass Report
3. Manure Report
4. Spill Report

INFORMATION

PUBLIC COMMENT

- None

No Written Comments Submitted

- No written comments were submitted.

END OF PUBLIC COMMENT

DIRECTORS REMARKS

Director Gipp shared with the Commission the state budget has been set and there will be implications for parks and for the Department's non-federal match for the air, water, and land quality programs. In addition to the budget reductions, the Department will also have to absorb the salary increases. The Department is going to have a difficult time having the personnel to do the ever increasing work that is required to be done.

Commissioner Joe Riding encouraged the Department to inform the general public on changes in services due to budget reductions.

Commissioner Ralph Lents requested for the June meeting to be updated on the collective bargaining and employee salary/benefits outcomes.

INFORMATION

AIR QUALITY: FEE SCHEDULE

Wendy Walker presented for the Commission's approval the Air Quality Fee Schedule for the upcoming fiscal year. Catharine Fitzsimmons shared with the Commission the fee structure associated with the tons of emissions from a facility. Chuck Gipp recognized the facilities who have invested millions of dollars in their facilities to reduce air emissions over the years. It is truly a success story for the environment while creating revenue challenges for the air quality program.

Motion was made by Nancy Couser to approve the agenda item as presented. Seconded by Joe Riding. Chad Ingels-yea, Joe Riding-yea, Bob Sinclair-yea, Ralph Lents-yea, Howard Hill-yea, Nancy Couser-yea, and Mary Boote-yea. Motion passes. .

APPROVED AS PRESENTED

GENERAL DISCUSSION

- Commissioner Joe Riding provided an update that for the June EPC meeting he would not be in attendance. Chair Mary Boote asked for Commissioners to provide Jerah Sheets with their attendance plans to ensure the meeting has a quorum.
- Jerah Sheets, Board Administrator, informed the Commissioners the June EPC meeting is shaping up to be a longer meeting that likely will conclude in the afternoon.

Chairperson Boote thanked everyone for their flexibility and adjourned the Environmental Protection Commission meeting at 10:35 a.m., Tuesday, May 23, 2017.

**Monthly Variance Report
April 2017**

Item #	DNR Reviewer	Facility/City	Program	Subject	Decision	Date	Agency Reference
1	Connie Dou	City of Keswick	Wastewater Construction	To use the USGS updated Spring/ Fall stream critical low flows published in 2016 to derive the water quality based limits/ NPDES permit limits in lieu of the "Annual and Seasonal Low-F low Characteristics of Iowa Streams," March 1979.	approved	4/3/2017	17wcv084
2	Karen Kuhn	Horizon Ethanol	Air Quality Construction Permits	Waiver of Initial Stack Test Requirement.	approved	4/4/2017	17aqv085
3	Lanie Boas	West Liberty Water Utility	Water Supply Construction	Construct storm sewer of gasketed RCP instead of water main material where there is 2-10 feet of horizontal separation between water main / sewer and water main is not 18"+ above sewer (instead of constructing sewer of water main material)	approved	4/5/2017	17wcv086
4	R. Libra, K. Book, P. Petitti, B. Jergenson	Steve Spalla	Animal Feeding Operations	Provide a synthetic liner membrane under the concrete floors of a cattle confinement building and manure storage, in lieu of a two foot thick compacted clay soil liner as required to comply with the up graded concrete standards in karst terrain.	approved	4/6/2017	17wcv087
5	Wendy Hieb	Ajinomoto Heartland, Inc.	NPDES	The facility would like to reduce the minimum self-monitoring frequency for BOD5, total suspended solids, ammonia and total residual chlorine from 7 times per week to 5 times per week. This variance was previously granted for the current permit.	approved	4/6/2017	17wcv088
6	Rachel Quill	Foam Fabricators, Inc.	Air Quality Construction Permits	Waiver of Initial Stack Test Requirement.	approved	4/6/2017	17aqv089
7	Wendy Hieb	Monsanto Company	NPDES	Monsanto has requested less frequent monitoring of their raw wastewater for BOD5, TSS, TKN, temperature, and pH in their next NPDES permit. The facility was granted a variance for reduced raw waste monitoring in their current permit.	approved	4/6/2017	17wcv090
8	Lanie Boas	Council Bluffs Water Works	Water Supply Construction	construct the water main of ductile iron pipe with nitrile gaskets instead of constructing the storm sewer of water main material where the water main is crossing under or less than 18" over the existing storm sewer	approved	4/6/2017	17wcv091
9	Tara Naber	Sioux City Water Supply	Water Supply Construction	Instead of constructing sewer of wm material: stm - use DIP w/ nitrile gaskets for wm, san - encase wm, stm w/ wm below & less than 18" - use DIP w/ nitrile for wm + encase wm. Project W2017-0216, PWSID 9778054.	approved	4/11/2017	17wcv092
10	Tara Naber	West Des Moines Water Works	Water Supply Construction	To use sound testing equipment for water main leak detection at underwater crossing instead of permanent taps with a meter. Project W2017-0215, PWSID 7785007.	approved	4/11/2017	17wcv093
11	Tara Naber	West Des Moines Water Works	Water Supply Construction	To use sound testing equipment for water main leak detection at underwater crossing instead of permanent taps with a meter. Project W2017-0215, PWSID 7785007.	approved	4/11/2017	17wcv094
12	Tara Naber	West Des Moines Water Works	Water Supply Construction	At crossing with existing storm sewer, directionally bored water main will be placed 4 feet below the crossing instead of crossing 18" above the storm sewer. Project W2017-0240, PWSID 7785007.	approved	4/11/2017	17wcv095
13	Tara Naber	West Des Moines Water Works	Water Supply Construction	Variance to use sound detection equipment for water main leak detection at underwater crossing instead of 10 States part 8.9.2.c. Project W2017-0243, PWSID 7785007.	approved	4/11/2017	17wcv096
14	Lanie Boas	Des Moines Water Works	Water Supply Construction	Construct water main of DIP with nitrile gaskets instead of constructing sewer of WM material where there is 2-10 feet of horizontal separation between WM/storm sewer and WM is not 18"+ above sewer (instead of constructing sewer of WM material)	approved	4/12/2017	17wcv097
15	Michael W. Smith	Appanoose County Sanitary Landfill	Sanitary Disposal	For the monitoring plan involving the North landfill site and monitoring wells MW-26, MW-27, MW-50R, and MW-51, follow the 567 Iowa Administrative Code 113.10 in lieu of 113.2(5).	approved	4/12/2017	17sdv098
16	Michael W. Smith	Appanoose County Sanitary Landfill	Sanitary Disposal	For the monitoring plan involving the North landfill site and monitoring wells MW-26, MW-27, MW-50R, and MW-51, follow the 567 Iowa Administrative Code 113.10 in lieu of 113.2(5).	approved	4/12/2017	17sdv099
17	Jason Christopherson	Armour-Eckrich LLC	Air Quality Construction Permits	Waiver of Initial Stack Test Requirement.	approved	4/13/2017	17aqv100

18	Marty Jacobs	City of Oskaloosa	Wastewater	The City of Oskaloosa is requesting variance from the Iowa Wastewater Facilities Design Standards Chapter 12 – Iowa Standards for Sewer Systems – 12.6 (Details of Construction) for the installation of HDPE gravity sewers by pipe bursting.	approved	4/17/2017	17scv101
19	Ashley Dvorak	Alewelt Inc.	Air Quality Construction Permits	Waiver of Initial Stack Test Requirement.	approved	4/18/2017	17aqv102
20	Danjin Zulic	Flint Hills Resources Iowa Falls, LLC	Air Quality Construction Permits	Waiver of Initial Stack Test Requirement.	approved	4/20/2017	17aqv103
21	Ann Seda	Koch Fertilizer	Air Quality	Operate a temporary mobile flare at its Sergeant Bluff facility, without first obtaining a construction permit.	approved	4/20/2017	17aqv104
22	Rachel Quill	Martin Brower	Air Quality Construction Permits	Waiver of Initial Stack Test Requirement.	approved	4/24/2017	17aqv105
23	Ann Seda	POET Biorefining	Air Quality	Operate a temporary grinder and engine to grind up to 30,000 tons of biomass through December 31, 2017 without first obtaining a construction permit. Biomass is old.	approved	4/24/2017	17aqv106
24	Reid Bermel	Tall Corn dba POET Biorefining	Air Quality	Tall Corn dba POET Biorefining (POET) facility to increase the beerfeed (input) maximum before obtaining modified permits 01-A-438-S6 and 07-TV-001R1 to 750 gpm.	denied	4/25/2017	17aqv107
25	Jason Christopherson	Green Plains Shenandoah LLC	Air Quality Construction Permits	Waiver of Initial Stack Test Requirement.	approved	4/25/2017	17wcv108
26	Tara Naber	City of Sioux City	Water Supply Construction	For water main crossing under storm sewer, instead of replacing storm sewer with water main material, construct storm sewer of RCP with rubber profile gaskets joints watertight to 13 psi. Project W2017-0245. PWSID 9778054.	approved	4/25/2017	17sdv109
27	Chad A. Stobbe	Liberty Tire Recycling LLC	Sanitary Disposal	Liberty Tire Recycling LLC is requesting a variance from 567 IAC 117.6(4)"c"(3) relative to the 50' fire lane requirement for piles of processed waste tire material and other debris.	approved	4/26/2017	17sdv110
28	Chad A. Stobbe	Liberty Tire Recycling LLC	Sanitary Disposal	Liberty Tire Recycling LLC is requesting a variance from 567 IAC 117.6(3)"f"(7) relative to the 200' setback from a water of the state or tile line surface intake for pre-processed whole waste tire storage.	approved	4/26/2017	17sdv111
29	Chad A. Stobbe	Liberty Tire Recycling LLC	Sanitary Disposal	Liberty Tire Recycling LLC is requesting a variance from 567 IAC 117.6(3)"f"(6) and 567 IAC 117.6(4)"c"(4) relative to the 50' property line setback for pre- and post-processed waste tire materials.	approved	4/26/2017	17aqv112
30	Ann Seda	Pattison Sand	Air Quality	Pattison would like to construct the new aspiration system and stack prior to obtaining a permit and stack test the source to see if it meets NSPS emission limits.	approved	4/27/2017	17aqv113
31	Ann Seda	Homeland Energy Solutions	Air Quality	Start construction of a new energy center which will house the non-PSD DDGS dryer system, boiler and RTO prior to the issuance of construction permits. Permits are drafted. Waiting for other PSD permits to come off notice.	approved	4/28/2017	17aqv114
32	Danjin Zulic	Pella Corporation - Carroll Division	Air Quality Construction Permits	Waiver of Initial Stack Test Requirement.	approved	4/28/2017	17aqv115
33	Ann Seda	Quad County	Air Quality	Operate RTO without permit mod. Mod required due to unexpected repairs made to RTO.	approved	4/28/2017	17aqv116

**Environmental Protection Commission
Iowa Department of Natural Resources**

ITEM

7

DECISION

TOPIC

Contract Amendments with Wapsi Valley Archaeology and The University of Iowa, Office of State Archaeologist for Archaeological and Architectural History Services

Recommendations:

Commission approval is requested for increases to the not-to-exceed amounts for contracts with Wapsi Valley Archaeology of Anamosa, Iowa and The University of Iowa, Office of State Archaeologist of Iowa City, Iowa. The total amount of these contracts shall not exceed the following amounts:

Wapsi Valley Archaeology: \$200,000 (Increase of \$50,000 to cover next two-year period)
Office of State Archaeologist: \$260,000 (Increase of \$80,000 to cover next two-year period)

Funding Source:

These contracts will be funded through the administrative accounts of the Clean Water and Drinking Water State Revolving Fund (SRF). These accounts are primarily funded through loan fees paid by SRF borrowers. DNR may contract for Phase IA Survey or Phase I Survey archeological services and/or Reconnaissance Survey architectural history services as needed for specific applicant projects. This level of investigation is typically adequate, but if additional investigation or effort is required, the cost and procurement of these surveys will be the responsibility of the SRF applicant.

Background:

Drinking water and wastewater construction projects funded by the SRF are considered federal undertakings and subject to the National Environmental Policy Act and the National Historic Preservation Act. Each project must either have a Categorical Exclusion (CX) or must demonstrate a Finding of No Significant Impact (FNSI), which must include documentation of the process of determining potential impacts on natural and cultural resources.

Since 2006, SRF Environmental Review Specialists have been assisting SRF applicants by determining and issuing CXs, seeking clearances from consulting parties, contracting for archeological and/or architectural history investigations, preparing documentation for the State Historic Preservation Office, compiling the Environmental Information Documents, and issuing FNSIs. This service is unique among the water and sewer funding programs; in the other programs' applicants must pay a grant administrator or consulting engineer to conduct the review and cover any expenses for archaeology or architectural history surveys.

Prior to 2006, the environmental review process was considered by many applicants to be a barrier to participating in the SRF programs. Providing environmental review services has removed that barrier and has contributed to the growth of the SRF.

To date, since SRF began contracting for these archeology and architectural history surveys on behalf of SRF applicants, a total of \$1.2 million has been awarded for contracts. During that same timeframe, the SRF programs committed \$2.1 billion for water and wastewater infrastructure.

Purpose:

The parties propose to enter into these contract amendments for the purpose of continuing to retain the contractors to provide archeological and/or architectural history services relating to State Revolving Fund-financed water supply and wastewater construction projects. DNR has executed contracts with these service providers on a retainer basis. As the need for specific archeological and/or architectural history investigations is identified, the DNR will solicit bid proposals from the selected contractors for the specific scope of work. The DNR will then select the most appropriate bid proposal and will execute an addendum to the contract with the selected contractor to provide the specific services. This will speed the process of contracting for these services which are often time-sensitive.

Contractor Selection Process:

The contractors were originally chosen in 2013 using a formal, competitive process.

Contract History:

The SRF program has had master contracts for archeology and architectural history since 2007. In 2013, a competitive selection and contracts were executed with six firms. In June 2015, five of the contracts were renewed for an additional two years and the not-to-exceed amounts were increased from the original contract amounts for the Office of State Archaeologist (from \$90,000 to \$120,000) and Wapsi Valley Archaeology (from \$60,000 to \$90,000). In 2016 amendments to increase the contract amounts for the Office of State Archaeologist (from \$120,000 to \$180,000) and Wapsi Valley Archaeology (from \$90,000 to \$150,000) were enacted. While all of the master contractors are eligible to bid on work, these two are the most active. No-cost extension amendments were executed in May 2017 with all of the current contractors.

Patti Cale-Finnegan, SRF Coordinator
Water Quality Bureau
May 18, 2017

Attachment(s): Proposed Contract Amendments

**Iowa Department of Natural Resources
Environmental Protection Commission**

ITEM

8

DECISION

**TOPIC Clean Water and Drinking Water State Revolving Loan Fund – FY 2018
Intended Use Plans**

Commission approval is requested for the Clean Water State Revolving Fund (CWSRF) and Drinking Water State Revolving Fund (DWSRF) Intended Use Plans (IUPs) for FY 2018 (July 1, 2017 – June 30, 2018).

The State Revolving Fund programs are authorized through federal legislation and administered by the State of Iowa under the oversight of the U.S. Environmental Protection Agency. The CWSRF finances publicly owned wastewater and sewer facilities, storm water management for water quality, and nonpoint source control practices to keep pollution out of Iowa's water. The DWSRF covers water system projects, including source water, treatment, storage, and distribution and transmission, as well as consolidation and connections.

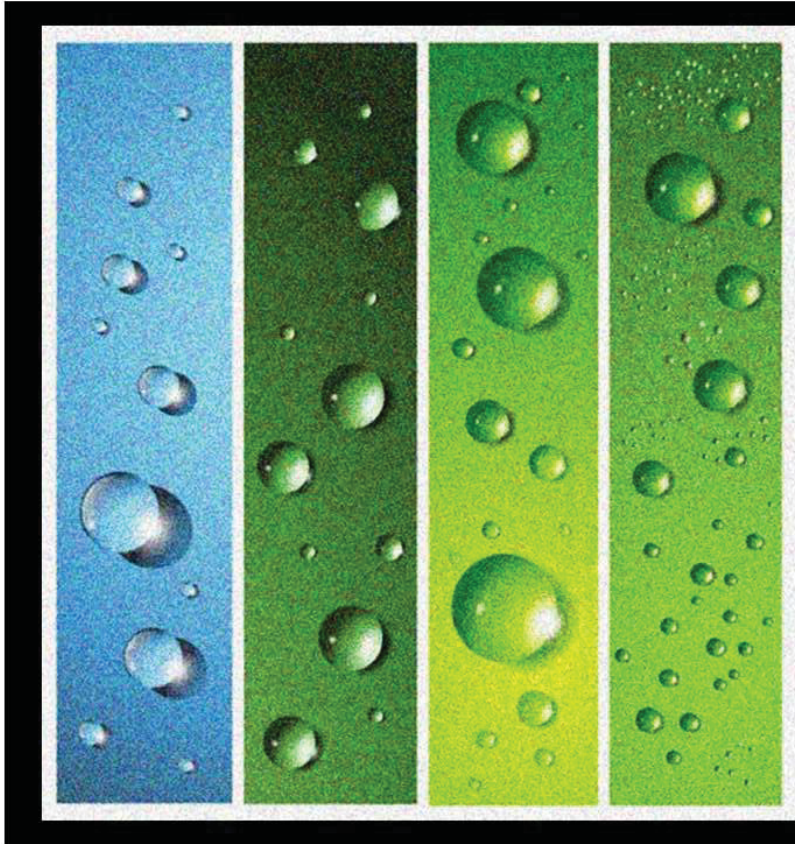
The Iowa SRF is operated through a coordinated partnership between the Department of Natural Resources (DNR) and the Iowa Finance Authority (IFA). DNR administers the environmental and permitting aspects of the programs, with IFA providing financial assistance including loan approval and disbursements. Other important partners include the Iowa Department of Agriculture and Land Stewardship, Soil and Water Conservation Districts, county sanitarians, participating lenders, and others.

The FY 2018 IUPs include plans of action for the SRF programs, including goals and objectives, an analysis of current and projected financial capability, financial management strategies, the project priority lists, discussion of set-aside programs and efforts, and planned uses for administrative accounts.

The IUPs are developed and updated quarterly, in June, September, December, and March or more often as needed. Each draft IUP is released for public comment, and then presented for approval to the Commission. A public meeting was May 11, 2017 to receive comments on the proposed IUP updates. There were no attendees. The written comment period closed on May 18, 2017. There were no written comments.

The Sources and Uses tables for both CWSRF and DWSRF show that funds are available or obtainable to provide anticipated disbursements. The IUPs will be updated quarterly during FY 2018.

Patti Cale-Finnegan, DNR SRF Coordinator
May 18, 2017



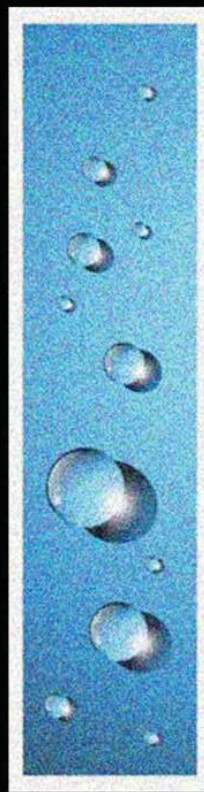
INVESTING IN IOWA'S WATER

FY 2018 INTENDED USE PLANS
 Clean Water State Revolving Fund
 Drinking Water State Revolving Fund

Iowa Department of Natural Resources
 Iowa Finance Authority

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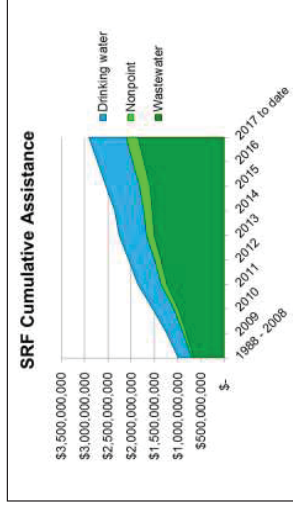


FY 2018 INTENDED USE PLANS

Introduction

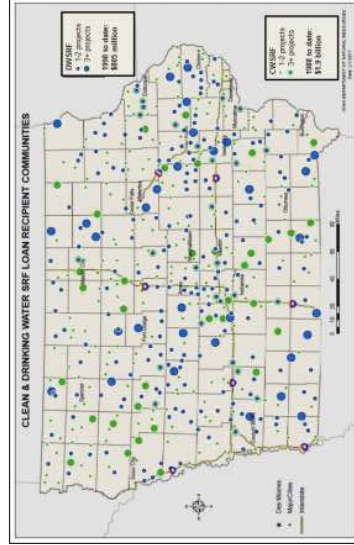
The fiscal year beginning July 1, 2017 marks the 30th year of the Clean Water SRF and the 20th year of the Drinking Water SRF. What have these programs accomplished in Iowa in their 50 cumulative years of operation?

1. Since 1988, Iowa's SRF has provided more than **\$2.9 billion** in loans for water and wastewater infrastructure, agricultural best management practices, and other water quality projects. SRF loans are used as stand-alone financing or in combination with a wide variety of grants, including other federal water and wastewater assistance programs, state and federal agricultural cost-share, and local sources, along with private investment.



2. Cities, counties, and sanitary districts across the state have used the Clean Water SRF to protect the state's **water quality**. Loans are used to build or upgrade publicly owned wastewater and sewer facilities and to create green infrastructure solutions for storm water.

The goal of the Drinking Water SRF is to help public water systems serve safe, adequate, and affordable drinking water. Both



publicly and privately owned water systems use SRF loans to upgrade treatment and replace aging infrastructure. These systems are owned by cities, counties, rural and regional water systems, and homeowners associations.

Many borrowers come back to the SRF multiple times to finance their ongoing capital improvement projects.

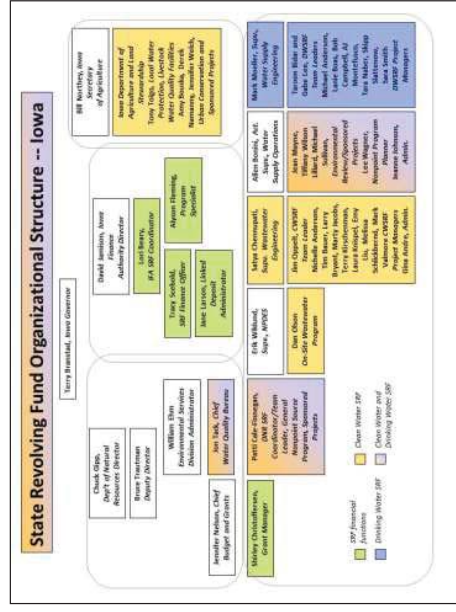
3. Within the broad framework set by federal legislation, states have flexibility to set their own priorities and manage their own SRF programs. Iowa's SRF has become one of the most **innovative** and far-reaching in the United States to help the state meet its **water quality goals**.

Iowa's SRF **listens** to stakeholders and creates programs and financing tools to meet their needs.

In particular, Iowa's SRF has responded to the need for funding for **nonpoint source** pollution control. Program innovations such as sponsored projects and loans to farmers and livestock producers are providing effective financing tools for voluntary practices.

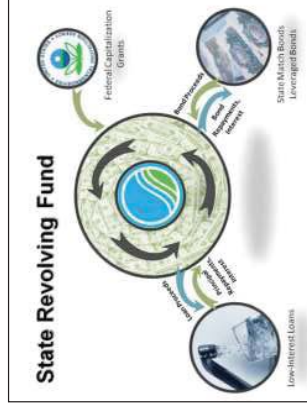
4. Strong partnerships developed between three state agencies form the basis for the SRF programs. The Iowa Department of Natural Resources, the Iowa Finance Authority, and the Iowa Department of Agriculture and Land Stewardship work together to deliver streamlined programs and good customer service.

Iowa's SRF also depends on several other **types of partners** to implement program and financial goals, including Soil and Water Conservation Districts, county environmental health agencies, watershed and land trust organizations, and lending institutions across the state.

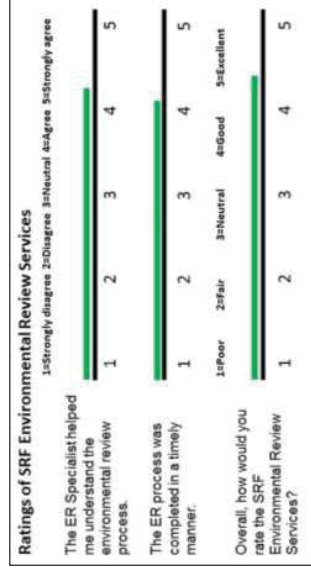


5. Iowa's SRF programs are **rated highly** in financial markets, giving the programs strong leveraging capacity to keep up with **demand** for loans. The SRF programs accept applications year-round, and make funding available when projects are ready to proceed. All eligible projects can be **funded**.

The Clean Water Act and the Safe Drinking Water Act created the programs as revolving loan funds to provide an **ongoing source** of financing. Iowa's SRF draws on several sources of money to make loans, including federal capitalization grants, bonds, and loan repayments with interest. No state general funds are provided.

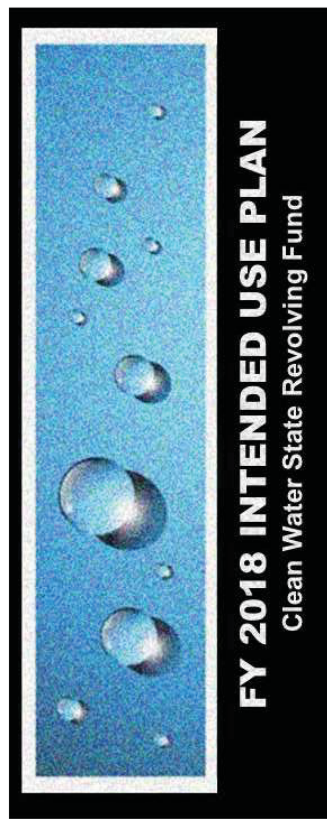


6. Iowa's SRF staff is committed to **transparency and accountability**. All program plans are issued for public review and comment, with approval quarterly by the Iowa Environmental Protection Commission. Annual reports and program audits show program performance. Surveys and questionnaires are used to gauge **customer satisfaction** and identify and solve problems.



The Intended Use Plans (IUPs) following this introduction provide a roadmap to the policies and procedures of the SRF programs, along with the lists of projects and activities to be funded. The IUPs outline the proposed management of the Clean Water SRF and the Drinking Water SRF during State Fiscal Year 2018 (July 1, 2017 – June 30, 2018). The IUPs are developed and updated quarterly, in June, September, December, and March or more often as needed.

There have been many changes to the SRF programs since their beginnings in 1988 (Clean Water) and 1998 (Drinking Water). Over the years, Iowa's SRF has responded to new regulations and requirements at the federal level, updated state goals for the programs, and new developments in the landscape of Iowa. Moving into the next era of the programs will continue to bring challenges and opportunities. With the FY 2018 Intended Use Plan and future program plans, Iowa's SRF will continue to help Iowans protect public health and the environment through investing in Iowa's water.



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I. STATE FISCAL YEAR 2018 PLAN OF ACTION

The plan is based on anticipated use of new and revolved funds available in the CWSRF for funding water quality protection needs, including both publicly owned wastewater infrastructure and nonpoint source water protection projects.

The CWSRF loan program consists of three main program areas:

- The purchase of debt obligations for wastewater and some storm water projects is provided through the CWSRF to publicly owned facilities.
- Direct loans or linked deposit financing approaches address nonpoint source programs.
- Water Resource Restoration sponsored projects address nonpoint source problems via interest rate reductions on wastewater loans.

The SFY 2018 Plan of Action covers the following areas:

- CWSRF goals and objectives;
- Current and projected financial capacity of the CWSRF;
- Financial management strategies;
- Plan for the SFY 2018 project priority list;
- Plan for nonpoint source set-asides; and
- Plan for use of administrative accounts.

CWSRF Goals and Objectives

The primary long-term goal of the Iowa CWSRF is to protect the environment and public health and welfare through a perpetual financial assistance program. While there have been changes to the CWSRF in recent years due to federal legislation, no major program updates are anticipated in SFY 2018. The SFY 2018 short-term goals and objectives are as follows:

- Goal: Commit loan funds to as many recipients as possible in accordance with the state priority rating system, the IUP, staff resources, and available funding, in order to assist in the construction of projects with the highest water quality impacts. *Objective: During SFY 2018, quarterly updates to the IUP will be prepared to add projects and update program financial information. Sponsored project applications will be taken and added to the IUP twice per year. Projects approved under the nonpoint source set-aside programs will be funded on a continuous basis.*

- Goal: Require applicants to engage a registered Municipal Advisor (MA). *Objective: During SFY 2018, all applicants submitting an Intended Use Plan application must demonstrate that they have hired an MA to assist with cash flows, rate setting, debt service coverage, and other financial aspects of their wastewater utility.*

- Goal: Implement the "Use of American Iron and Steel (AIS)" requirements enacted by Congress on January 17, 2014. *Objective: During SFY 2018, SRF staff will help applicants determine eligibility for the exemptions and waivers provided for in the Act and EPA guidance. SRF staff will provide information to those applicants required to comply on necessary documentation and inspection procedures. SRF will engage DNR Field Office staff to conduct site visits and provide technical assistance.*

- Goal: Fund green projects to meet the requirements of the Green Project Reserve. *Objective: During SFY 2018, the Iowa SRF plans to fund green projects as required in the FFY 2017 capitalization grant. Iowa has already complied with the GPR requirements in the FFY 2010 – 2016 cap grants.*

- Goal: Apply additional subsidization required in FFY 2012 - 2014 and FFY 2016 capitalization grants to disadvantaged community projects and green projects. Develop plans for allocating any loan forgiveness required in FFY 2017 cap grant. *Objective: During SFY 2018 SRF staff plans to approve plans and specifications and execute loans or loan amendments with loan forgiveness for the amounts required in the FFY 2017 cap grant. For the FFY 2015 capitalization grant, loan forgiveness was optional. Iowa does not intend to provide any loan forgiveness from the FFY 2015 grant. Iowa has complied with the add subs requirements for all previous cap grants.*

- Goal: Comply with EPA guidance on reporting under the Federal Funding Accountability and Transparency Act (FFATA). *Objective: In the Annual Report, SRF staff will list loans that met the several requirements of FFATA for open capitalization grants. Grants may not be closed out until equivalency amounts can be reported. Loans reported for FFATA will meet equivalency requirements for the following:*

- o Section 602(b)(14) of the Clean Water Act: "A contract to be carried out using funds directly made available by a capitalization grant...for program management, construction management, feasibility studies, preliminary engineering, design, engineering, surveying, mapping, or architectural related services shall be negotiated in the same manner as a contract for architectural and engineering services is negotiated under Chapter 11 of title 40, United States Code..."
- o Federal socioeconomic cross-cutters.
- o Federal environmental cross-cutters.
- o EPA signage guidance.
- o Single audit requirements.

- Goal: Comply with EPA guidance on cost and effectiveness requirements under Section 602(b)(13) of the Clean Water Act, which states: "Beginning in (federal) fiscal year 2016, the State will require as a condition of providing assistance...that the recipient of such assistance certify...that the recipient –A) has studied and evaluated the cost and effectiveness of the processes, materials, techniques, and technologies for carrying out the proposed project...; and B) has selected, to the maximum extent practicable, a project or activity that maximizes the potential for efficient water use, reuse, recapture,

and conservation, and energy conservation, taking into account – i) the cost of constructing the project or activity; ii) the cost of operating the project or activity over the life of the project or activity; and iii) the cost of replacing the project or activity.” *Objective: During SFY 2018 CWSRF will require applicants whose project requests were placed on the IUP after October 1, 2015 to submit a self-certification form indicating compliance with this requirement.*

- Goal: Promote and identify sustainable practices in projects proposed for funding. *Objective: During SFY 2018 SRF staff will provide information on the EPA’s Sustainability Policy to applicants and include sustainability features in project descriptions.*
- Goal: Continue to implement the Water Resource Restoration Sponsor Program authorized in Iowa Code 384.84. *Objective: During SFY 2018, SRF staff will receive applications twice per year for sponsored project funding. Application deadlines will be in September and March. In conjunction with DNR 319 program staff, watershed coordinators, Iowa Department of Agriculture and Land Stewardship urban conservationists, and others, SRF staff will evaluate the applications and prepare a list of proposed projects for the IUP.*
- Goal: Comply with the EPA Signage Guidance. *Objective: During SFY 2018 SRF staff and recipients will notify the public in the most effective ways possible about assistance agreements and benefits of the CWSRF program in order to enhance public awareness of EPA assistance agreements nationwide.*
- Goal: Update the CWSRF Operating Agreement. *Objective: During SFY 2018 SRF staff will work with EPA Region 7 to update the Clean Water SRF Operating Agreement between DNR and EPA. The agreement has not been updated since 2007.*

Additional long-term goals include:

- Goal: Work with other state and federal agencies to coordinate water quality funding. *Objective: During SFY 2018, SRF staff will meet regularly with staff from the Community Development Block Grant program, and USDA Rural Development. SRF staff will also coordinate funding with new state Water Quality Initiative grants for nonpoint source projects.*
- Goal: Apply program requirements that are simple and understandable and do not add unnecessary burdens to applicants or recipients. *Objectives: During SFY 2018 SRF staff will continue to assist applicants with completing the federal cross-cutting requirements for environmental and historical review. Staff will not be responsible for Davis-Bacon compliance but will advise borrowers as needed. Borrowers will be responsible for compliance and may hire outside consultants to assist.*
- Goal: Continue the option of extended financing terms for CWSRF infrastructure projects. *Objective: During SFY 2018 this option will be offered to current and new projects on the project priority list. Applicants seeking extended financing must complete a worksheet outlining the anticipated life of the project components, which can be averaged to determine the extended term.*
- Goal: Maintain mechanisms for funding the on-going administration of the program if federal funding is reduced or eliminated. *Objective: During SFY 2018 initiation and servicing fees will be collected on CWSRF loans for deposit to administrative accounts. SRF staff will develop short and long-term plans for administrative budgets.*

- Goal: Manage the CWSRF to maximize its use and impact through sound financial management. *Objective: During SFY 2018 SRF staff and financial advisors will continue to conduct financial analysis and develop innovative approaches to financial management.*

- Goal: Implement programs that effectively address water quality needs and target appropriate audiences. *Objective: During SFY 2018 SRF staff will continue to educate users and potential users about the program offerings through presentations, displays, program materials, and the IowaSRF.com website.*

Current and Projected Financial Capacity of the CWSRF

Appendix A, the Estimated Sources and Uses table, shows that funds are available to fund current requests as of April 2017. The Iowa CWSRF program uses its equity fund to originate loans. When a sufficient number of loans have been made, the SRF program issues bonds, backed by those CWSRF loans, and uses the bond proceeds to replenish the equity fund. A bond issued was completed in SFY 2017 and included state match for the FFY 2017 capitalization grant.

The leveraging capacity of the CWSRF is robust due to the maturity of the fund and the current loan portfolio. SRF staff has analyzed the future financial capacity of the CWSRF in light of the discussion over water quality standards and other future wastewater needs. Using relatively conservative assumptions, it is projected that the CWSRF could loan an average of \$300 million per year over the next 10 years, or a total of \$3 billion.

Financial Management Strategies

The CWSRF Project Priority List (attached) show total loan requests for wastewater projects. Because many of these projects are in the planning phase, they are not expected to sign a binding loan commitment during this fiscal year. The projected timing and demand for loan draws is reflected in the sources and uses table (Appendix A). Other uses for CWSRF funds in SFY 2018 include \$22.8 million for nonpoint source set-asides.

The cash draw procedure used is the direct loan method. State match is fully disbursed prior to drawing EPA capitalization grant funds. The EPA capitalization grant funds will be drawn at a 100% proportionality ratio. Iowa’s bonds are cross-collateralized across both the Clean Water and Drinking Water SRF accounts.

SFY 2018 Project Priority List

The management of the CWSRF program includes a priority list of projects for loan assistance, which has been developed according to DNR rules 567 IAC 92 (455B).

With the available CWSRF funds, this IUP provides a projection of loan funding assistance for applications in priority order determined by point source rating criteria defined in 567 IAC 91 (455B). This priority list will be amended on a quarterly basis during SFY 2018. Chart 1 (attached) constitutes the project priority list.

Due to the project workload and for planning purposes, the CWSRF staff may evaluate projects that have been on the IUP list for more than three years. A notification will be sent to the applicants that their project may be dropped if there is no progress in the six months following the notice. If a project is dropped, the applicant may reapply when the project is ready to move ahead.

For program planning purposes, the fundable projects are further identified as “R – ready for loan” (indicating that the construction permit and environmental review have been completed), and “P – in planning.”

The following categories of projects will be included for funding during SFY 2018 and are included on Chart 1:

Unfunded Prior Years' Section 212 Projects: These are loan requests remaining on the project priority list from previous years' IUPs. It is Iowa's intention to make CWSRF loans to these projects during SFY 2018 if they are ready for a binding loan commitment.

Segments of Previously Funded Section 212 Projects: State rules provide that subsequent segments of a project, which has previously received funding priority or assistance, be placed on the project priority list ahead of new projects. Segmented projects will be added to the SFY 2018 project priority list as received.

New Section 212 Projects: New applications for assistance during SFY 2018 will be added to the project priority list. Applications will be accepted on a continuous basis during SFY 2018 with quarterly updates completed as needed.

Supplemental Financing: Supplemental financing for projects listed in previously approved IUPs are added to the IUP as they are requested unless the additional funds will be used for improvements that would significantly change the scope of the project. Additional environmental review may be required. Supplemental loans will not be provided for changes that are ineligible for funding.

Planning and Design Loans: Planning and design loans are provided at 0% interest for up to three years to cover the costs of preparing facility plans and project specifications. The loans will be rolled into CWSRF construction loans or repaid by another source of permanent financing.

Capitalization Grant Requirements: The FFY 2010 - 2016 capitalization grants include requirements for certain percentages of the funds to be allocated for additional subsidization and/or green projects (note: the FFY 2015 cap grant required GPR but not add subs).

	Add Subs Req'd.	Add Subs Actual	%	GPR Req'd.	GPR Actual	%
2010	\$ 4,129,860	\$ 4,491,676	109%	\$ 5,515,000	\$ 5,516,792	100%
2011	\$ 1,851,928	\$ 2,918,377	158%	\$ 3,997,000	\$ 12,042,485	301%
2012	\$ 1,063,065	\$ 1,520,000	143%	\$ 1,912,800	\$ 3,924,060	205%
2013	\$ 853,127	\$ 1,276,000	150%	\$ 1,806,900	\$ 3,477,000	192%
2014	\$ 1,032,630	\$ 1,584,000	153%	\$ 1,897,600	\$ 2,480,000	131%
2015	N/A	N/A	N/A	\$ 1,900,300	\$ 28,923,179	1522%
2016	\$ 1,808,300	\$ 1,838,300	102%	\$ 1,808,300	\$ 5,691,797	315%
TOTAL	\$ 10,736,910	\$ 13,628,353	127%	\$ 18,857,900	\$ 62,055,313	329%

The specific projects that have received add subs or been counted for the GPR are listed in Appendix C. Iowa will satisfy the amounts required in the FFY 2017 capitalization grants.

Water Resource Restoration: In 2009, the Iowa General Assembly amended Iowa Code chapter 384.84 to add a new category of projects that can be financed with sewer revenues. This new category, called "water resource restoration" sponsored projects, includes locally directed, watershed-based projects to address nonpoint source water quality issues.

On a typical CWSRF loan, the utility borrows principal and repays principal plus interest. On a CWSRF loan with a sponsored project, the utility borrows for both the wastewater improvement project and the sponsored project. The overall interest rate on the total amount of principal borrowed is reduced so that the utility's ratepayers do not pay any more than they would have for just the wastewater improvements. Instead, two water quality projects are accomplished for the cost of one.

The map shows the project locations for approved sponsored projects as of April 2017.

The applications proposed for funding in SFY 2018 are listed in Appendix D.

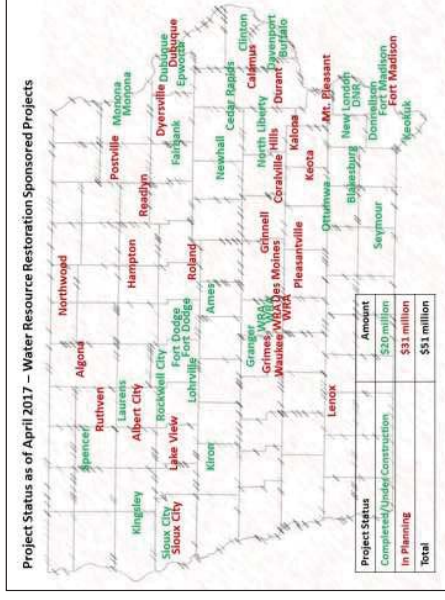
Applications will be taken during SFY 2018 on September 1, 2017 and March 1, 2018. The same requirements apply.

- For loans up to 20 years, the interest rate on the combined infrastructure/sponsored project loan will be reduced to not lower than 0.75%. The equivalent of the amount that would be generated by a 1% interest rate (approximately \$100,000 per \$1 million borrowed) will be available for eligible sponsored project costs. Loans between 20-30 years can also be used but the dollar amount for sponsored projects will also be \$100,000 per \$1 million.
- The amount set aside for interest rate reductions for the in FY 2018 is \$10 million (on up to \$100 million worth of future CWSRF infrastructure loans). If sponsored project requests exceed that amount, DNR reserves the right to cap the dollar amount of a single project to a percentage of the total allocated.

Explanations of eligible applicants and projects, as well as specific application requirements, are outlined in the SFY 2018 Sponsored Project Application Packet, available online at: http://www.iowasrf.com/about_srf/sponsored_projects_home_page.cfm.

Plan for Nonpoint Source Set-Asides

Iowa authorizing legislation and state administrative rules allow the use of CWSRF funds for nonpoint source pollution control projects. Four set-asides for nonpoint source program assistance have been established which target areas of need allowed under federal guidance and identified in the state nonpoint source water quality management plan:



- The On-Site Wastewater Systems Assistance Program (OSWAP), providing loans to homeowners to replace inadequate septic systems. New systems are certified by county sanitarians and loans are made through participating lenders through a linked deposit arrangement.
- The Local Water Protection (LWP) Program, addressing soil, sediment, and nutrient control practices on agricultural land. DNR contracts with the Iowa Department of Agriculture and Land Stewardship, which operates the program through local Soil and Water Conservation Districts. Loans are made through participating lenders through a linked deposit arrangement.
- The Livestock Water Quality Facilities (LWQ) Program, assisting livestock producers with manure management plans, structures, and equipment. Facilities with fewer than 1,000 animal unit capacity are eligible. DNR contracts with the Iowa Department of Agriculture and Land Stewardship, which operates the program through local Soil and Water Conservation Districts. Loans are made through participating lenders through a linked deposit arrangement.
- The General Nonpoint Source (GNS) Program, for a wide variety of other water quality protection efforts. Projects include habitat and wetland restoration, landfill closure, lake restoration, and watershed planning. Funding for Storm Water Best Management Practices loans is also included in this set-aside amount. Projects that involve purchase of land require separate approval by the EPC. These projects are listed in Appendix E.

The table below outlines the current and proposed set-aside amounts planned for the four programs. These set-aside amounts may be amended based on need and the financial capacity of the CWSRF.

Program	Proposed SFY 2018 Set-Aside Amount
Onsite Wastewater Assistance Program (OSWAP)	\$1.8 million
Local Water Protection Program (LWPP)	\$5.0 million
Livestock Water Quality Facilities Program (LWQ)	\$6.0 million
General Nonpoint Source Program (GNS)	\$10.0 million
TOTAL	\$22.8 million

Plan for Use of Administrative Accounts

There are three distinct funding sources for CWSRF administrative expenses:

- The CWSRF administrative set-aside. Iowa intends to take or reserve 4% of the federal capitalization grant funds for program administration. The Iowa SRF program did not take any administrative set-aside from the ARRA capitalization grant. The administrative set-aside of \$2,122,000 from the ARRA cap grant is reserved for future use. Any unused administration commitments from other capitalization grants are reserved for use in future years as necessary should capitalization grants be reduced, or actual costs increase.
- Loan initiation fees. A 0.5% loan origination fee will be charged on new CWSRF loans. The maximum amount to be paid will be \$100,000. Under EPA rules, because Iowa's origination fees are financed through the loans, the proceeds are considered program income. Program income can only be used for the purposes of administering the CWSRF program or for making new loans. There is approximately \$3

million available in funds considered program income. A portion of these funds will be used in SFY 2018 for program administration, and the remainder will be reserved for future administrative expenses.

- Loan servicing fees. A fee of 0.25% on principal is charged on CWSRF loans. Under EPA rules, only servicing fees charged on loans made above and beyond the amount of the capitalization grant and fees collected after the capitalization grant under which the loan was made has been closed are considered non-program income. Non-program income can be used to administer the program or for other water quality purposes. The uses of non-program income are discussed below.

Program Income. CWSRF program expenses are currently approximately \$2.6 million per fiscal year. This includes the work of wastewater engineering section project managers, specialists in environmental review, nonpoint source program administrators, financial officers, loan coordinators, and program managers. It also covers expenses for financial and legal advisors.

Non-Program Income. There is approximately \$8 million available in funds considered non-program income. The DNR proposes the following uses for a portion of these funds during SFY 2018:

Purpose	Explanation	Amount
To support wastewater compliance activities	SRF non-program income will be used in place of state general fund dollars for three FTEs in the field office wastewater staff. The field offices will be doing inspections to ensure compliance with the NPDES permit, assisting permit holders with staying in compliance with their permit, investigating complaints from the public related to wastewater treatment and offering technical assistance to wastewater facility operators. Another task is working with unsewered communities to become properly sewered.	\$328,000
To provide staffing in the Water Quality Bureau	This funding will replace state general funds for up to three environmental engineers that review construction projects in the Wastewater Engineering section, up to four permit writers in the National Pollution Discharge Elimination System (NPDES) section, up to three water quality monitoring staff, the Water Quality Resource Coordinator position, half the time of a business analyst to update Bureau databases, and engineering interns.	\$1,400,000
To support the development of a stream mitigation program	The funding will be used to fund staff time to develop a stream mitigation banking effort.	\$32,500
TOTAL		\$1,760,500

II. INFORMATION ON THE CWSRF ACTIVITIES TO BE SUPPORTED

Allocation of Funds

Allocation of funds to eligible projects was based on a four-step process:

1. The amount of financial assistance needed for each application was estimated;

2. The sources and allowable uses of all CWSRF funds were identified; and
3. The CWSRF funds were allocated among the projects, consistent with the amount available and the financial assistance needed.
4. A designated amount was selected as reasonable and manageable for each set-aside.

Information pertinent to each CWSRF project is contained in Chart 1, pursuant to Section 606(c)(3) of the Clean Water Act.

Sources and Uses of Available CWSRF Funds

Appendix A to the Intended Use Plan illustrates potential sources and uses of funds in the CWSRF for SFY 2018. As shown, all pending loan requests and program administration needs can be funded. Projects will draw on their funding at different intervals based on their construction cycles. These differences are used to estimate cash needs throughout the year. Appendix A will be updated quarterly as needed to provide an ongoing view of the financial plan for meeting loan requests.

Section 212 Projects Program Policies

Project Scope. The scope of the project must be outlined on the Intended Use Plan application and in the facility plan. Changes to the scope are allowed prior to loan closing. Significant changes in scope may cause delays if additional work is required by the project manager or environmental review specialist. Once a loan is signed, only minor changes to the scope will be allowed and only if they do not require additional technical or environmental review.

Loan Interest Rates. The interest rates for construction loans made from the CWSRF are as follows:

Loan Term	Applicant Type	Interest Rate	Servicing Fee	Total	Additional Information
Standard (up to 20 years)	All	1.75%	0.25%	2.00%	
Extended (21 to 30 years based on useful life)	Disadvantaged	1.75%	0.25%	2.00%	Communities must be determined to be disadvantaged based on criteria in Iowa Code section 455B.199B, Disadvantaged Communities Variance, as amended by Senate File 407 on April 28, 2011. These criteria include income and unemployment data. SRF staff will also consider population trends, providing 1 point for communities with projected increases or decreases in population. Population trends are also reviewed as part of the construction permitting process as required in Iowa Administrative Code 567 Chapter 64-2(9).

Extended (21 to 30 years based on useful life)	Non-Disadvantaged	2.75%	0.25%	3.00%
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Interest rate for CWSRF planning and design loans will be 0% for up to three years.

Loan Fees. A 0.5% origination fee is charged on the full loan amount for new CWSRF construction loans, with a maximum amount of \$100,000. No origination fees will be charged on planning and design loans. A .25% servicing fee will be charged on construction loans. Payment of the loan servicing fee is semi-annual with interest payments for all new SRF loans. Loan servicing fees are only charged on the principal amount disbursed during construction (not the entire original loan amount).

Financing Term. The financing term will be up to 30 years. Current and new projects on the project priority list may request an extended term. The length of the term will be based on calculation of the average useful life of the entire project, to be determined by the applicant’s consulting engineer and approved by DNR.

Maximum Financing. There is no maximum financing amount.

Project Readiness. Applicants cannot be offered assistance until they meet program requirements.

Funding Limitations. Pending loans identified in this IUP do not exceed funds obtainable for the CWSRF program.

Plan for Efficient and Timely Use of CWSRF Funds

The State of Iowa’s Clean Water State SRF uses federal capitalization grant funds as expeditiously as possible. Iowa has been able to use its federal capitalization grant funds in a timely way due to a robust and sustained demand for loans. A number of program features have spurred the growth in loan demand. These include:

- Improvements and streamlining in the wastewater construction permitting process, which reduced timelines for project review and approval;
- Allow applicants to pursue phased approach for projects to enable individual phased projects proceed timely to construction instead of waiting on approval on a large project;
- Planning and design loans at 0% interest for three years to provide upfront capital to get projects started and ready for construction and loan closing;
- Year-round application process with quarterly updates to the Intended Use Plan, which keeps projects in the loan pipeline on a continual basis;
- Expansion of nonpoint source and green infrastructure programs to include loans for farmers, livestock producers, watershed organizations, and others;
- Extended term financing, based on project useful life, which allows more utilities to benefit from the CWSRF;
- Environmental review services to complete assessments of impacts to natural and cultural resources, reducing costs and barriers to participating in the loan program; and
- Focus on marketing, customer and consultant education, and coordination with other funders.

Financial management also contributes to the timely use of federal funds. The Iowa CWSRF program uses its Equity Fund to originate new loans. This fund consists of principal and interest repayments. When additional

funds are needed, the SRF program issues bonds, backed by those CWSRF loans, and uses the bond proceeds to replenish the equity fund.

Iowa's SRF program issues bonds annually or as needed. These bond issues include the state match for the next federal capitalization grants. After the bonds are issued, the state match is spent first so the cap grant can be drawn down at 100% when it is received. Due to equivalency guidance from the U.S. EPA, cap grant dollars can be directed on a first-come, first-served basis. That allows the cap grant to be drawn down more quickly. Equivalency projects are chosen to meet the full range of SRF requirements. Loan disbursements are made weekly. Iowa's CWSRF disbursements average \$10.6 million per month.

With a return of \$3.34 for every dollar of federal investment (compared to the national average of \$2.63), Iowa's CWSRF is an efficient and effective delivery mechanism for water infrastructure funding.

The practices described above are currently working well for Iowa and will be continued through FY 2018.

Water Quality Management Planning

A reserve for water quality management planning as required by Title VI of the Clean Water Act will be set aside from Iowa's Title VI allotments and granted to the state for this purpose separately from the CWSRF. This reserve does not appear in this IUP as it has been already deducted from Iowa's allotment and taken into account in projecting Iowa's available capitalization grant.

SEE Salary Funds Deducted from Cap Grant

The Iowa DNR may request U.S. EPA to deduct funds from FFY 2017 capitalization grants which could be included in Iowa's next grant applications to EPA after receiving notification of availability of the CWA Title VI Funds and evaluating the state allotment amount. These positions could be filled by EPA Region 7 and assigned to the DNR's Wastewater Engineering section to provide technical and administrative assistance to the CWSRF projects and program. The SEE enrollees could help provide staffing at Iowa DNR to maintain the CWSRF program and keep up with the increasing CWSRF project technical and administrative work load. Authorized under the Environmental Programs Assistance Act of 1984 (PL 98- 313), the SEE program is intended "to utilize the talents of older Americans in programs authorized by other provisions of law administered by the Administrator in providing technical assistance to Federal, State, and local environmental agencies for projects of pollution prevention, abatement, and control."

III. ASSURANCES AND SPECIFIC PROPOSALS

Iowa will provide the necessary assurances and certifications according to the Operating Agreement between the State of Iowa and the U.S. EPA. Iowa's Operating Agreement was amended in April 2007 and will be updated during SFY 2018.

IV. CRITERIA AND METHOD FOR DISTRIBUTION OF FUNDS

Section 212 Infrastructure Projects

The following approach was used to develop Iowa's proposed distribution of CWSRF funds for Section 212 infrastructure projects: (1) analysis of the priority of communities applying and financial assistance needed; (2) identification of the sources and spending limits of available funds; (3) allocation of funds among projects; (4) development of a payment schedule which will provide for making timely binding commitments to the projects

selected for CWSRF assistance; and (5) development of a disbursement schedule to pay the project costs as incurred.

Allocation of Funds Among Projects. All projects listed in the CWSRF Project Priority List (attached) are eligible for assistance and may be funded from the CWSRF subject to available funds.

All projects scheduled for funding with Iowa's CWSRF will be reviewed for consistency with appropriate plans developed under sections 205(j), 208, 303(e), 319 and 320 of the Clean Water Act, as amended. Evidence of this review and finding of consistency will be documented in each CWSRF project file. Should a project fail to meet this review criterion, it may be bypassed as allowed by State rules. The Project Priority List provides for contingency projects, which may be considered for loan assistance as bypass projects according to state rules without formal amendment of this intended use plan.

Priority of Communities and Financial Assistance Needed. Iowa law provides only for loan assistance. Additional subsidization required by federal capitalization grant conditions will be through forgivable loans. The state's CWSRF rules identify the priority rating system used to establish priorities for loan assistance.

Nonpoint Assistance Programs

Nonpoint source assistance includes set-asides for the Onsite Wastewater Assistance Program (OSWAP), Livestock Water Quality Facilities (LWQ), Local Water Protection (LWP) and General Nonpoint Source (GNS). These funds implement the intent of Iowa statute to use CWSRF funds to improve residential wastewater systems, to assist owners of existing animal feeding operations to meet state and federal requirements, for local water protection projects that will provide water quality improvement or protection and for general nonpoint source projects that will provide water quality improvements or water quality protection. These systems are addressed as a need by Iowa's State Nonpoint Source Management Plan. Individual loan applicants for all set-asides are not identified in this IUP. These programs will be operated as linked deposit, loan participation, or direct loan programs.

V. METHOD OF AMENDMENT OF THE INTENDED USE PLAN

This IUP will be followed by the State in administering CWSRF funds in SFY 2018. Federal and state law requires, and Iowa welcomes, opportunity for public participation in the development of the IUP. Any revisions of the goals, policies and method of distribution of funds, must be addressed by a revision of the IUP, including opportunity for public participation. Updates to the IUP to add projects to the priority list, to make program changes, or to adjust dollar amounts in set-asides, will be made quarterly as needed. Minor adjustments in funding schedules, loan amounts and use of bypass provisions including funding of projects on contingency status are allowed by the procedures of this IUP and state rules for administration of the CWSRF without public notification.

VI. PUBLIC REVIEW AND COMMENT

A public meeting to allow input to Iowa's SFY 2018 IUP and Project Priority List was held May 11, 2017, 10:00 a.m., at the Wallace State Office Building, Conference Room 5E, 502 E. 9th Street, Des Moines. This meeting was announced in a notice provided to stakeholder organizations representing city officials, consulting engineers, county governments, councils of government, area planning agencies, US EPA Region VII and other groups which might have an interest. There were no attendees. The public comment period was open until May 18, 2017.

Written comments were received from the U.S. Environmental Protection Agency Region 7 SRF staff. Comments will be addressed in the next quarterly update.

VII. PROJECT PRIORITY LIST

Chart 1, the CWSRF Project Priority List is included in a separate, sortable Excel file.

**APPENDIX A
Iowa CWSRF State Fiscal Year 2018 1Q
Estimated Funding Sources and Funding Uses
As of 4/26/2017**

Funding Sources	
Funds Available in Equity Fund and Program Accounts	\$172,228,000 *
FFY 2017 Capitalization Grant	\$18,083,000 **
State Match for FFY 2017 Capitalization Grant	\$0
Issuance of Leveraged Bonds (next bond issue expected SFY 2019)	\$0
Equity Fund and Program Interest Earnings	\$446,000
Loan Repayments	\$77,567,000
Total Funding Sources	\$268,324,000
Funding Uses	
Undisbursed Amounts Committed to Existing Loans (45% disbursement rate)	\$66,666,000
Section 212 Project Requests (FNSI/CX issued; 25% disbursement rate)***	\$60,297,000
Section 212 Project Requests (FNSI/CX not issued; 15% disbursement rate)***	\$44,257,000
Planning & Design Requests (60% disbursement rate)	\$3,455,000
Non-Point Source Program Assistance	\$22,800,000
Principal Payments on Outstanding Bonds	\$36,945,000
Interest Payments on Outstanding Bonds	\$31,782,000
Program Administration From ARRA Capitalization Grant	\$2,122,000
Total Funding Uses	\$268,324,000

* Funds Available for disbursements as of 4/26/2017

** Estimated amount

*** Loan disbursement rates are estimated based on previous experience with project pace. For projects that currently have not had a Finding of No Significant Impact or Categorical Exclusion issued, it is expected that up to 15% of the total project amounts may be disbursed during SFY 2018 once environmental review is completed, construction permit issued, and binding loan commitment signed. For those projects with FNSI/CX clearance, the disbursement rate is estimated at 25% of the loan request amount.

**APPENDIX B-1
PROCEDURES TO DETERMINE SECTION 212 PROJECT PRIORITY LIST**

Project rankings were determined by the following procedures:

Cost eligibility of projects was determined as per 567 IAC 92.7(6)(455B). Applications were evaluated using the priority point system in 567 IAC 91.8(455B).

The final project priority list for a fiscal year's project pool is compiled in the following manner: subsequent segments of projects funded by CWSRF loan programs of previous years will be ranked at the top; projects ranked in the current year application group will then be added.

Projects on the project priority list will be given contingency status should the total amount of needs exceed the year's CWSRF staff resources capability and loan funding or if the projects have not met the fundable criteria described in 567 IAC 92.6(2)(455B). Projects will be funded from the top down in the ranking order of the project priority list. Projects are ranked similarly in the contingency project list. The top project in the contingency list can be moved to the funding list when funds are available or it has met the fundable criteria. Funds can be made available due to a number of reasons including project bypasses, loan application withdrawal of other projects, reduction in loan amount requests, an increase in available funds, or progress in meeting program requirements.

**APPENDIX B-2
CRITERIA TO DETERMINE PROJECT PRIORITY LIST**

In April 2010 Iowa adopted revised rules for the Clean Water State Revolving Fund (CWSRF). 567 IAC 91 provides the criteria for scoring and ranking CWSRF projects. The new system uses an integrated approach which allows comparison of Section 212 POTW (publicly owned wastewater treatment works) projects as well as nonpoint source pollution control projects. The goal of the new system is gain the highest water quality benefits for the funding available.

Currently Iowa is able to fund all projects that are eligible, but the priority system will be available to use in the case that demand for CWSRF loans exceeds supply of funds.

Section 212 POTW Projects

The rating criteria consider the use classification of the receiving waters, water quality of the receiving waters, groundwater protection, project type, project purpose, and a tiebreaker; defined in 567 IAC 91.8 (455B). Priority ranking for the projects shall be based on the total points awarded for all the categories; the greater the total number of points, the higher the ranking. The ranking will be done at the time the IUP is prepared and will not be updated during the year. The tie breaker category will be used when necessary.

Nonpoint Source Set-Aside Programs

The rating criteria consider the use classification of the receiving waters, water quality of the receiving waters, groundwater protection, project type, project purpose, and a tiebreaker; defined in 567 IAC 91.8 (455B). Priority ranking for the projects is based on the total points awarded for all the categories; the greater the total number of points, the higher the ranking. The priority system for nonpoint source will not be implemented until 90 percent of a nonpoint source set-aside is allocated and no additional funds are available. If that occurs, ranking will be done at the time that a new project application is received.

**APPENDIX C
BORROWERS RECEIVING ADDITIONAL SUBSIDIZATION OR COUNTED FOR GREEN PROJECT RESERVE (GPR)**
Some GPR projects received additional subsidization. Other projects received add subs based on their disadvantaged community status.

Project	Loan Amount	Amount Green Project Reserve	Amount Additional Subsidization	Grant Year Reported
Charles City	1,400,000	1,400,000	409,372	2010
Conesville	1,350,000		230,689	2010
Lohrville	3,724,000		1,077,900	2010
McCallsburg	810,000		147,400	2010
INHF	1,975,574	1,975,574		2010
Private Borrower	10,024	10,024		2010
INHF	1,435,320	1,435,320		2010
Private Borrower	189,874	189,874		2010
INHF	403,000	403,000		2010
Ocheyedan	2,065,000		227,398	2010
Odebolt	1,599,000		387,857	2010
Odebolt	500,000		100,000	2010
Pisgah	650,000		181,200	2010
Spirit Lake	103,000	103,000	30,900	2010
Terril	1,077,000		278,144	2010
Walker	2,158,000		420,816	2010
Washington	16,316,000		1,000,000	2010
Coraville	1,751,000	1,751,000	481,480	2011
Dubuque (sponsored)	9,400,000	9,400,000		2011
Meriden	329,000	64,485	12,897	2011
INHF	827,000	827,000		2011
Ottumwa	4,800,000		740,000	2011
Dubuque (Upper Bee Branch)			1,684,000	2011
Albert City	400,000		120,000	2012
Dubuque (methane)	3,048,000	3,048,000		2012
INHF	647,700	647,700		2012
INHF	129,420	129,420		2012
INHF	98,940	98,940		2012
Dubuque (Upper Bee Branch)			1,400,000	2012
INHF	300,000	300,000		2013
INHF	342,000	342,000		2013
INHF	2,835,000	2,835,000		2013
Dubuque (Upper Bee Branch)			1,276,000	2013
Buffalo (sponsored)	35,000	35,000		2014

Monona (sponsored)	245,000	245,000	2014
WRA WRR	2,200,000	2,200,000	2014
Dubuque (Upper Bee Branch)		1,584,000	2014
Dubuque (Upper Bee Branch)	28,923,179	28,923,179	2015
Ottumwa		700,000	2016
Albert City	1,000,000	300,000	2016
Albert City	2,796,000	838,800	2016
WRA (sponsored)	1,070,000	1,070,000	2016
INHF	430,000	430,000	2016
INHF	903,297	903,297	2016
INHF	729,000	729,000	2016
INHF	1,125,000	1,125,000	2016
INHF	277,500	277,500	2016
INHF	611,000	611,000	2016
INHF	546,000	546,000	2016
TOTAL	101,564,828	62,055,313	13,628,853

INHF = Iowa Natural Heritage Foundation
WRA = Wastewater Reclamation Authority

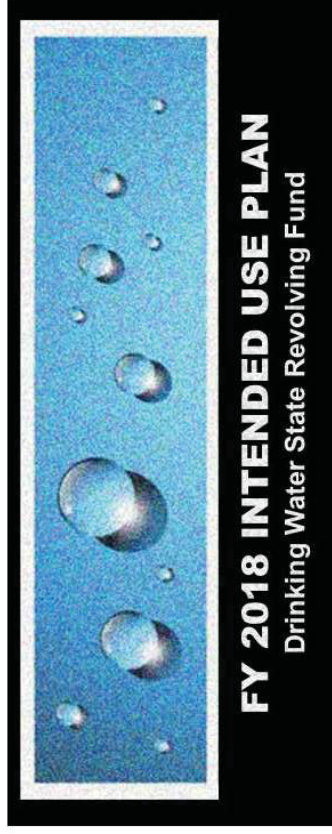
**APPENDIX D
FY 2018 Sponsored Project Funding Recommendations**

Applicant	Proposed Watershed and Project Description	Proposed Partners
Fayette	Volga River -- install bioretention cells as part of downtown revitalization to reduce pollutant and quantity of runoff	Turkey River Watershed Management Authority, Fayette SWCD
Greenfield	Greenfield Lake and Nodaway Lakes -- lake improvements for water quality and source water protection practices	IDALS, Adair CCB, NRCS, SWCD
Johnston	Beaver Creek/Des Moines River - improve water quality and mitigate the amount of stormwater runoff through best management practices	Polk SWCD, IDALS
Lake View	Black Hawk Lake -- urban practices to reduce sediment and nutrient loadings to the lake	Black Hawk LPA, Sac Co. SWCD, IDALS, DNR
Ogden	East Beaver Creek -- reduce sediment and nutrient transport through both agricultural and urban practices to prevent runoff	Beaver Creek Watershed Management Authority, Boone SWCD
Slater	Fourmile Creek -- manage sediment and bacteria loading through practices to address urban runoff	Polk SWCD
Tiffin	Clear Creek -- install green infrastructure practices for infiltration, runoff volume, and rate reduction for streambank protection; implement residential soil quality restoration program	Clear Creek Watershed Coalition, Shelby Builders, Hochstedler Building & Development
West Burlington	Mississippi River - implement stormwater best management practices in the Flint-Henderson watershed	IDALS, NRCS
West Union	Otter Creek -- install permeable pavers at City Hall to reduce stormwater runoff to nearby Otter Creek which is a designated cool water stream	Turkey River Watershed Management Authority, Fayette SWCD
Wastewater Reclamation Authority	Sugar Creek/Raccoon River- improve stream corridor stability in support of Raccoon River Water Quality Master Plan	Polk SWCD (assisting with urban practices in Dallas Co.)

APPENDIX E
General Nonpoint Source Set-Aside Projects for Approval of Land Purchase

Per Iowa Administrative Code 567 Chapter 93.7(5) Ineligible costs. Costs for livestock water quality facilities are not eligible under this set-aside and are provided for in rule 567—93.5(455B). Costs for the purchase of land are not eligible costs unless specifically approved by the commission.

Applicant	Project Description	Water Quality Benefit	Amount	IUP Year and Quarter
Iowa Natural Heritage Foundation	Purchase of 319 acres through three properties along the North Raccoon River in Greene County.	The three properties contain upland floodplain habitats of mostly woodland. On the Bannister property, 89 acres has already been designated as the Eureka Woods State Preserve. One mile of the North Raccoon river will be protected. This river watershed is identified in the Upper Mississippi River Basin initiative as a priority for conservation and reduction of sediment and nutrients. This segment of the North Raccoon is classified as a category 4 impaired water.	\$786,000	FY 2018 Q1
Iowa Natural Heritage Foundation	Purchase of 110 acres of property along the Wapsipicon River on the Buchanan/Black Hawk County line.	Permanent protection of the Harris Estate property will benefit water quality in the Wapsipicon River, a Protected Water Area. All crop fields have been planted to permanent cover through CRP. The Corn Suitability Rating is 50. The land will also serve as a buffer to an animal feeding operation. About two miles downstream from this reach the Wapsi is designated a category 5 impaired water for bacteria.	\$313,500	FY 2018 Q1
Iowa Natural Heritage Foundation	Purchase of 73 acres in Polk County to add to the Chichaqua Bottoms Greenbelt.	The Woolsey property is a mix of upland, steep slopes, and ravines that drain to the South Skunk River valley. The tributary on the property contributes significant sediment to the Southpoint wetland downstream. The slopes will be restored to native vegetation to prevent erosion. The South Skunk River in Polk, Story, and Jasper Counties is a category 5 impaired water.	\$500,000	FY 2018 Q1



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I. STATE FISCAL YEAR 2018 PLAN OF ACTION

The plan is based on anticipated use of new and revolved funds available in the DWSRF for construction of treatment plants or improvements to existing facilities, water storage facilities, wells, and source water protection efforts.

The SFY 2018 Plan of Action covers the following areas:

- DWSRF goals and objectives;
- Current and projected financial capacity of the DWSRF;
- Financial management strategies;
- Plan for the SFY 2018 project priority list;
- Plan for use of DWSRF set-aside funds; and
- Plan for use of administrative accounts.

DWSRF Goals and Objectives

The primary long-term goal of the Iowa DWSRF is to support the protection of public health through a perpetual program of financial assistance for the purposes of ensuring the provision of an adequate quantity of safe drinking water to consumers of public water supplies, protecting source water for drinking water systems, and ensuring the long-term viability of existing and proposed water systems.

The SFY 2018 short-term goals and objectives are as follows:

- Goal: Commit loan funds to as many recipients as possible in accordance with the state priority rating system, the IUP, staff resources, and available funding. *Objective: During SFY 2018, quarterly updates to the IUP will be prepared to add projects and update program financial information.*
- Goal: Ensure that borrowers are able to provide safe drinking water at a reasonable cost for the foreseeable future. *Objectives: During SFY 2018, viability assessments will be completed by each applicant and reviewed by SRF staff prior to signing of the loan agreement. Systems determined*

nonviable or systems with EPA's Enforcement Targeting Tool (ETT) scores above 11 will be provided with an enforceable compliance schedule listing all actions that must be completed to return the system to viable status. Extended term financing will be offered to disadvantaged communities. SRF staff will coordinate efforts with other funders such as the Community Development Block Grant program. We will continue to educate and inform public water supplies, engineering consultants, and financial advisors on the financing savings available by using the DWSRF.

- Goal: Require applicants to engage a registered Municipal Advisor (MA). *Objective: During SFY 2018, all applicants submitting an Intended Use Plan application must demonstrate that they have hired an MA to assist with cash flows, rate setting, debt service coverage, and other financial aspects of their wastewater utility. The reports provided by the MAs will be used in the viability assessment review.*
- Goal: Implement the "Use of American Iron and Steel (AIS)" requirements enacted by Congress on January 17, 2014. *Objective: During SFY 2018, SRF staff will help applicants determine eligibility for the exemptions and waivers provided for in the Act and EPA guidance. SRF staff will provide information to those applicants required to comply on necessary documentation and inspection procedures. SRF will engage DNR Field Office staff to conduct site visits and provide technical assistance.*
- Goal: Apply additional subsidization available in FFY 2015 - 2016 capitalization grants to disadvantaged community projects and public health projects. *Objective: During SFY 2018 SRF staff plans to approve plans and specifications and execute loans or loan amendments with loan forgiveness for the amounts required in the FFY 2015 - 2016 cap grants.*
- Goal: Promote and identify sustainable practices in projects proposed for funding. *Objective: During SFY 2018 SRF staff will provide information on the EPA's Sustainability Policy to applicants and include sustainability features in project descriptions.*
- Goal: Comply with EPA guidance on reporting under the Federal Funding Accountability and Transparency Act (FFATA). *Objective: In the Annual Report, SRF staff will list loans that met the several requirements of FFATA for open capitalization grants. Grants may not be closed out until equivalency amounts can be reported.*
- Goal: Comply with the EPA Signage Guidance. *Objective: During SFY 2018 SRF staff and recipients will notify the public in the most effective ways possible about assistance agreements and benefits of the DWSRF program in order to enhance public awareness of EPA assistance agreements nationwide.*
- Goal: Update the DWSRF Operating Agreement. *Objective: During SFY 2018 SRF staff will work with EPA Region 7 to update the Drinking Water SRF Operating Agreement between DNR and EPA. The agreement has not been updated since 2007.*

Additional long-term goals include:

- Goal: Prioritize the provision of funds, to the extent practicable, to projects that address the most serious risk to human health and are necessary to ensure compliance with the national primary drinking water standards. *Objectives: Priority will be assigned to projects that address human health risks or compliance issues by the provision of points assigned during the DWSRF scoring process as outlined in 567 IAC Chapter 44.*

- Goal: Apply program requirements that are simple and understandable and do not add unnecessary burdens to applicants or recipients. *Objectives: During SFY 2018 SRF staff will continue to assist applicants with completing the federal cross-cutting requirements for environmental and historical review. Staff will not be responsible for Davis-Bacon compliance but will advise borrowers as needed. Borrowers will be responsible for compliance and may hire outside consultants to assist.*
- Goal: Continue the option of extended financing terms for DWSRF infrastructure projects. *Objective: During SFY 2018 this option will be offered to current and new projects on the project priority list. Applicants seeking extended financing must complete a worksheet outlining the anticipated life of the project components, which can be averaged to determine the extended term.*
- Goal: Maintain mechanisms for funding the on-going administration of the program if federal funding is reduced or eliminated. *Objective: During SFY 2018 initiation and servicing fees will be collected on DWSRF loans for deposit to administrative accounts. SRF staff will develop short and long-term plans for administrative budgets.*
- Goal: Manage the DWSRF to maximize its use and impact through sound financial management. *Objective: During SFY 2018 SRF staff and financial advisors will continue to conduct financial analysis and develop innovative approaches to financial management.*
- Goal: Implement programs that effectively address water system needs and target appropriate audiences. *Objective: During SFY 2018 SRF staff will continue to educate users and potential users about the program offerings through presentations, displays, program materials, and the IOWASRF.com website.*

Current and Projected Financial Capacity of the DWSRF

Appendix A, the Estimated Sources and Uses table, shows that available funds are sufficient to fund current requests.

SRF staff has analyzed the future financial capacity of the DWSRF. Using relatively conservative assumptions, it is projected that the DWSRF could loan an average of \$150 million per year over the next 10 years, or a total of \$1.5 billion.

Financial Management Strategies

The DWSRF Project Priority List (attached) show total loan requests for water supply projects. Because many of these projects are in the planning phase, they are not expected to sign a binding loan commitment during this fiscal year. The projected timing and demand for loan draws is reflected in the sources and uses table (Appendix A).

Iowa will apply for the FFY 2017 capitalization grant as soon as notified by the U.S. EPA. State match funds based on an estimated FFY 2017 cap grant amount were obtained and have already been expended. State match bonds are issued at the same time that leveraged bond issues are done for greater cost effectiveness.

The cash draw procedure used is the direct loan method. State match is fully disbursed prior to drawing EPA capitalization grant funds. The EPA capitalization grant funds will be drawn at a 100% proportionality ratio. Iowa's bonds are cross-collateralized across both the Clean Water and Drinking Water SRF accounts.

SFY 2018 Project Priority List

The management of the DWSRF program, including development of a project priority list for financing assistance, was developed according to Part 567 of the Iowa Administrative Code (IAC), Chapter 44. This IUP indicates the intent to provide funds to projects ranked in priority order according to scoring criteria contained in Chapter 44 of the IAC.

In the event that projects identified for funding in the IUP do not attain readiness for a loan commitment by projected dates, these delayed projects may be bypassed. Other projects may be added to the project priority list to be funded based on the State's implementation rules for the DWSRF program (567 IAC 44). Applications that are in excess of available DWSRF assistance may be placed on Contingency status according to priority.

Projects will be funded as ranked on the project priority list. Adjustment to the list of fundable projects will be made, if necessary, to assure that at least 15% of the project funds are available to systems serving fewer than 10,000 persons as specified in Section 1452(a) (2) of the Act. Financing may be provided for up to 100% of project costs if the costs are eligible for funding based on engineering, environmental, and financial review and project readiness to proceed as described above.

Due to the project workload and for planning purposes, the DWSRF staff will evaluate projects that have been on the IUP list for more than three years. A notification will be sent to the applicants that their project may be dropped if there is no progress in the six months following the notice. If a project is dropped, the applicant may reapply when the project is ready to move ahead.

For program planning purposes, the fundable projects are further identified as "R – ready for loan" (indicating that the construction permit and environmental review have been completed), and "P – in planning."

The following categories of projects will be included for funding during SFY 2018:

Unfunded Prior Years' Projects. All projects from prior years that have not entered into a binding commitment are included in this IUP.

Segments of Previously Funded Projects. State rules provide that subsequent segments of a project which has previously received funding priority or assistance be placed on the project priority list with the original project score.

New Projects. New applications for assistance during SFY 2018 will be added to the project priority list. Applications will be accepted on a continuous basis and quarterly updates completed as needed.

Supplemental Financing. Supplemental financing for projects listed in previously approved IUPs are added to the IUP as they are requested unless the additional funds will be used for improvements that would significantly change the scope of the project. Additional environmental review may be required. Supplemental loans will not be provided for changes that would lower the original score of the project to a point where the application is no longer competitive or is ineligible for funding.

Planning and Design Loans. Requests for planning and design loans are listed on the project priority list but have not been assigned priority points.

Source Water Protection Loans. Iowa's DWSRF no longer has adequate funding from the 15% Other Authorized Activities set-aside to offer loans for source water protection. All outstanding requests have been satisfied and no further applications will be taken. Source water loans are not eligible projects under the regular DWSRF loan program.

Capitalization Grant Requirements. The FFY 2010 - 2016 capitalization grants include requirements for certain percentages of the funds to be allocated for additional subsidization and/or green projects under the Green Project Reserve (GPR).

	Add Subs Req.	Add Subs Actual	%	GPR Req.	GPR Actual	%
2010	\$ 6,950,000	\$ 6,976,336	100%	\$ 4,633,000	\$ 5,633,568	122%
2011	\$ 4,746,300	\$ 4,786,555	101%	\$ 3,164,000	\$ 5,260,000	166%
2012	\$ 3,064,400	\$ 3,064,000	100%	\$ -	\$ -	N/A
2013	\$ 2,875,000	\$ 2,896,004	101%	\$ -	\$ -	N/A
2014	\$ 2,645,800	\$ 2,697,500	102%	\$ -	\$ -	N/A
2015	\$ 2,645,800	\$ 1,929,750	73%	\$ -	\$ -	N/A
2016	\$ 2,486,400	\$ -	0%	\$ -	\$ -	N/A
TOTAL	\$ 25,413,700	\$ 22,350,145	88%	\$ 7,797,000	\$ 10,893,568	140%

The specific projects that have received add subs or been counted for the GPR are listed in Appendix C. Additional projects identified for loan forgiveness to meet the FFY 2015 and 2016 capitalization grant requirements are listed on the DWSRF Project Priority List (Chart 1). Iowa will also plan to meet the requirements in the FFY 2017 capitalization grant.

II. INFORMATION ON THE DWSRF ACTIVITIES TO BE SUPPORTED

Allocation of Funds

Allocation of funds to eligible projects is based on a three-step process:

1. The amount of financial assistance needed for each application is estimated;
2. The sources and spending limits for all DWSRF funds are identified; and
3. The DWSRF funds are allocated among the projects, consistent with the financial assistance needed.

Information pertinent to each DWSRF project is contained in the attached Project Priority List.

Sources and Uses of Available DWSRF Funds

Appendix A to the Intended Use Plan illustrates potential sources and uses of funds in the DWSRF for SFY 2018. As shown, all pending loan requests and program administration needs can be funded. Projects will draw on their funding at different intervals based on their construction cycles. These differences are used to estimate cash needs throughout the year. Appendix A will be updated quarterly as needed to provide an ongoing view of the financial plan for meeting loan requests.

The Iowa DWSRF program uses its equity fund to originate loans. When the number of loans that have been made creates a need for additional funds, IFA issues bonds, backed by those DWSRF loans, and uses the bond proceeds to replenish the equity fund.

DWSRF Loan Policies

Project Scope. The scope of the project must be outlined on the Intended Use Plan application and in the preliminary engineering report. Changes to the scope are allowed prior to loan closing. Significant changes in scope may cause delays if additional work is required by the project manager or environmental review specialist. Once a loan is signed, only minor changes to the scope will be allowed and only if they do not require additional technical or environmental review.

Loan Interest Rates. The interest rate for DWSRF construction loans are shown in the table below:

Loan Term	Applicant Type	Interest Rate	Servicing Fee	Total	Additional Information
Standard (up to 20 years)	All	1.75%	0.25%	2.00%	
Extended (21 to 30 years based on useful life)	Disadvantaged	1.75%	0.25%	2.00%	Please see below, "Extended Financing and Disadvantaged Status," for an explanation.
Extended (21 to 30 years based on useful life)	All	2.75%	0.25%	3.00%	Please see below, "Extended Financing and Disadvantaged Status," for an explanation.

Interest rates for DWSRF planning and design loans will be 0% for up to three years. Source water protection loans are no longer offered as of April 2017.

Loan Fees. A 0.5% origination fee is charged on the full loan amount for new DWSRF construction loans and source water protection loans, with a maximum amount of \$100,000. No origination fees will be charged on planning and design loans. A .25% servicing fee will be charged on construction loans and source water protection loans. Payment of the loan servicing fee is semi-annual with interest payments for all new SRF loans. Loan servicing fees are only charged on the principal amount disbursed during construction (not the entire original loan amount).

Maximum Financing. There is no maximum financing amount.

Project Readiness. Applicants cannot be offered assistance until they meet program requirements.

Funding Limitations. All program requests for disbursements from DWSRF projects can be met. These estimates are based on the projections that, for projects that have completed program requirements and are ready for funding, only 55% of the loan amount will be disbursed this fiscal year. For projects that are currently in the planning phase but may be ready for funding during SFY 2018, it is projected that only 50% of total funds will be disbursed to the project this fiscal year.

Extended Financing and Disadvantaged Status. During SFY 2015 the Iowa SRF received approval from the U.S. EPA to provide extended terms for a loan to any borrower as long as the extended term does not terminate more than 30 years after project completion and the loan term does not exceed the expected design life of the

project. For borrowers designated as disadvantaged, the interest rate on extended term loans will be 1.75%. For non-disadvantaged borrowers, the interest rate will be 2.75%.

The Safe Drinking Water Act defines a disadvantaged community as the service area of a public water system that meets affordability criteria established after public review and comment. Community public water systems serving populations that contain a majority (51 percent) of Low to Moderate Income (LMI) persons will be considered disadvantaged for the purpose of receiving the 1.75% interest rate on an extended term loan. This criterion does not apply to any other DWSRF assistance such as additional subsidization. Low to moderate income is defined as 80 percent of the median household income in the county or state (whichever is higher) using the most recent federal census or income survey data. Privately owned community public water systems will be considered eligible for disadvantaged community status if an income survey indicates that the service area meets the LMI criteria. Rural water systems will be considered eligible for disadvantaged community status if an income survey indicates that the area benefiting from the improvements meets the LMI criteria. Income surveys must be done according to the protocol specified by the Community Development Block Grant program.

Extended term loans are limited to public water supply infrastructure improvements. Projects eligible for funding from set-asides, such as source water protection projects, are not eligible in accordance with federal program requirements.

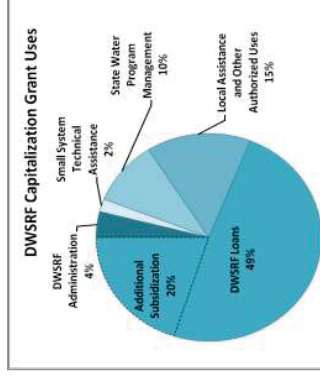
Only those portions of a project that have a design life or life cycle exceeding 20 years are eligible for extended terms. The department will use the table of estimated useful lives from EPA's publication 816-R-03-016 to determine the length of the loan for eligible expenses. The consulting engineer for the project will be required to separate and itemize costs so that a weighted maturity may be calculated for loan repayment. The list of itemized costs and expected useful lives will be required prior to signing of the loan agreement.

Intended Use of Set-Asides

States are allowed to take or reserve set-aside amounts from each federal capitalization grant for a number of activities that enhance the technical, financial, and managerial capacity of public water systems and protect sources of drinking water. The use of the set-asides as well as the loan program is intended to carry out Iowa's goal of ensuring that the drinking water received by 92% of the population served by community water systems meets all applicable health-based drinking water standards through approaches including effective treatment and source water protection.

The amounts are subject to approval by EPA of program workplans. The DNR is following the SFY 2017 workplan, Iowa plans to take or reserve the allowed amount in each set-aside as shown in the chart.

DNR has two options for addressing the amounts available each year in set-asides. Set-aside funds may be reserved for future use (except for the Local Assistance and Other Authorized Uses set-aside), in which case they would be deducted from a future capitalization grant when they are ready to be taken. Funds that are taken from an available capitalization grant must be applied to planned work efforts approved by EPA.



In recent years, DNR has been using the set-asides and drawing upon reserved funds as needed to meet the amounts for programs and efforts required by EPA that are critical for ensuring public health. Once the reserved amounts are expended, the amounts available for each set-aside will be limited to the percentage allowed out of each capitalization grant.

DWSRF Program Administration Set-Aside: Iowa intends to use this set-aside including loan administrative fees to pay the costs of administering the State Revolving Fund loan program. Among the uses for the set-aside are:

- Portfolio management, debt issuance, and financial, management, and legal consulting fees;
- Loan underwriting;
- Project review and prioritization;
- Project management;
- Environmental review services;
- Technical assistance to borrowers;
- Database development and implementation; and
- Program marketing and coordination.

Unused commitments are reserved for use in future years as necessary.

Small System Technical Assistance Set-Aside: Iowa intends to use DWSRF funds equivalent to 2% of the federal capitalization grant funds to provide technical assistance to public water supplies (PWSs) serving populations of less than 10,000.

Funds from this set-aside will be used this year to provide support for the operator certification program including the administration and proctoring of examinations in all six regions of the state, and to provide training for new Grade A water system operators and continuing education for existing Grade A water system operators. Grade A is the certification grade for the smallest public water supply systems, with only disinfection treatment.

Unused commitments are reserved for use in future years for DNR staff and other purposes as necessary.

State Program Support Set-Aside: The primary uses of this set-aside are to assist with the administration of the Public Water Supply Supervision program, to review engineering documents for non-DWSRF construction projects, to provide wasteload allocations at public water systems with loans, and to evaluate disinfection contact time determinations, approve corrosion control strategies, and make influenced groundwater determinations.

Other uses include:

- Updating the SDWIS database including support systems and provide compliance determinations and information technology database support;
- Adopting final federal rules and revisions to the Iowa Administrative Code.

Fifty percent of the budget amount will be funded from the capitalization grant and the remaining 50% will be funded from State sources as required under the 1:1 State match provision in SDWA. Starting with the FY 2017 capitalization grant, as amended through the Water Infrastructure Improvements for the Nation Act of 2016, the state match will no longer be required. Unused commitments are reserved for use in future years for DNR staff and other purposes as needed.

	purposes under SDWA 1452 3) State match for the capitalization grant	The funds are deposited outside the Fund.	open for administration of the DWSRF program. Servicing fee receipts collected after the cap grant is closed are used for other purposes under SDWA 1452.
Fees included as principal and deposited outside the Fund	1) Fund administration 2) All other capitalization grant purposes under SDWA 1452 3) Cannot be used for state match for the capitalization grant	Iowa charges a 0.5% initiation fee on all new loans which is included in loan principal. The fees are deposited outside the Fund.	Iowa uses initiation fee receipts for administration of the DWSRF program.
Fees included as principal and deposited into the Fund	Authorized uses of the Fund	N/A	N/A

- Coordination and administration of the Source Water Protection program;
- Contracts for services to develop SWP plans and review implementation of Best Management Practices;
- Development of data for Phase 1 SWP assessments for all new systems and new wells at existing public water supply systems;
- Technical assistance for well siting; and
- Maintenance of the *Source Water Mapper and Tracker* online database.

Plan for Use of Administrative Accounts

There are three distinct funding sources for DWSRF administrative expenses:

- The DWSRF administrative set-aside. Four percent of the cumulative amount of federal capitalization grants received may be used for program administration as discussed in the set-aside section above.
- Loan initiation fees. A 0.5% loan origination fee is charged on new DWSRF loans.
- Loan servicing fees. A fee of 0.25% on principal is charged on DWSRF loans.

The U.S. EPA issued fee guidance in March 2017 with a matrix showing the relationship between how fees are assessed and for what purposes they can be used. The following table shows how Iowa's fee policies comply with the guidance:

EPA Fee Category	Allowable Uses	Iowa DWSRF Fee Policy	Iowa DWSRF Fee Usage
Fees not included as principal and deposited into the Fund	Authorized Uses of the Fund	N/A	N/A
Fees not included as principal and deposited outside the Fund	1) Fund administration 2) All other capitalization grant	Iowa charges a 0.25% servicing fee annually on outstanding principal.	Iowa uses servicing fees collected during the time the capitalization grant is

Fees Included as Principal. As of April 2017, there was approximately \$4.6 million in the fee account from fees included as principal and deposited outside the fund (the initiation fee). A portion of these funds will be used in SFY 2018 for program administration, and the remainder will be reserved for future administrative expenses.

Fees Not Included as Principal. As of April 2017, there was \$6.1 million available from fees not included as principal and deposited outside the fund (servicing fee). A portion of these funds may be used in SFY 2018 to provide part of the required state match for the State Program Management set-aside.

SEE Salary Funds Deducted from Cap Grant

The Iowa DNR may request U.S. EPA to deduct funds from FFY 2017 capitalization grants which could be included in Iowa's next grant applications to EPA after receiving notification of availability of the funds. These positions could be filled by EPA Region 7 and assigned to the DNR's Water Supply engineering section to provide administrative assistance to the DWSRF projects and program. The SEE enrollees could help provide staffing at Iowa DNR to maintain the DWSRF program and keep up with the increasing DWSRF project administrative work load. Authorized under the Environmental Programs Assistance Act of 1984 (PL 98- 313), the SEE program is intended "to utilize the talents of older Americans in programs authorized by other provisions of law administered by the Administrator in providing technical assistance to Federal, State, and local environmental agencies for projects of pollution prevention, abatement, and control."

Plan for Efficient and Timely Use of DWSRF Funds

In recent years, the processes of the DWSRF have been streamlined, and the marketing and education enhanced. These improvements have resulted in more efficient and timely use of the DWSRF and full utilization of available funds. In particular, Iowa applies for and draws federal capitalization grants as expeditiously as possible. Average monthly DWSRF disbursements are \$6 million.

Rather than doing one annual funding solicitation, with a discrete set of projects identified for funding that year, the Iowa SRF does quarterly updates to its intended Use Plan. This creates a continuous pipeline of projects at

different stages of readiness. Communities determine when they need their funding; the program does not set deadlines on loan execution as long as projects are making progress toward a loan.

With a return of \$2.63 for every dollar of federal investment (compared to the national average of \$1.80), Iowa's DWSRF is an efficient and effective delivery mechanism for water infrastructure funding.

DWSRF set-asides are typically fully utilized within a two-year planning and budgeting period. Iowa draws grant funds on a first-in, first-out basis in order to close out the capitalization grants. Funds still remaining in the FFY 2013-2015 Other Authorized Uses set-asides for source water protection loans will be reallocated and used for other purposes in order to more quickly close out those cap grants. Due to increased water program budget needs and reduced funding from other sources, Iowa is spending reserved set-aside capacity at a faster rate than in the early years of the DWSRF program.

III. ASSURANCES AND SPECIFIC PROPOSALS

Iowa will provide the necessary assurances and certifications according to the Operating Agreement between the State of Iowa and the U.S. EPA. Iowa's Operating Agreement was amended in April 2007 and will be updated during SFY 2018.

IV. CRITERIA AND METHOD FOR DISTRIBUTION OF FUNDS

The following approach was used to develop Iowa's proposed distribution of DWSRF funds: (1) analysis of the priority of communities applying and financial assistance needed; (2) identification of the sources and spending limits of available funds; (3) allocation of funds among projects; (4) development of a payment schedule which will provide for making timely binding commitments to the projects selected for DWSRF assistance; and (5) development of a disbursement schedule to pay the project costs as incurred.

Priority of Communities and Financial Assistance Needed

Iowa law provides only for loan assistance. Additional subsidization required by the FFY 2010-2016 capitalization grants will be through forgivable loans. The state's DWSRF rules identify the priority rating system used to establish priorities for financial assistance.

Projects are considered eligible for financial assistance for all planning and project costs providing the project is on the project list of an approved IUP.

Allocation of Funds among Projects

All projects listed in the Project Priority List are eligible for assistance and may be funded from the DWSRF subject to available funds.

All projects scheduled for funding with Iowa's DWSRF will be reviewed for consistency with the Safe Drinking Water Act, as amended. Should a project fail to meet this review criterion, it may be bypassed or deleted from the funding list. Projects may be added to the Project Priority List in priority order as applications are received.

V. METHOD OF AMENDMENT OF THE INTENDED USE PLAN

The State will follow this IUP in administering DWSRF funds in FY 2018. Federal and state law requires, and Iowa welcomes, opportunity for public participation in the development of the IUP. Any revisions of the goals, policies and method of distribution of funds must be addressed by a revision of the IUP, including public participation. Minor adjustments in funding schedules, loan amounts, and use of bypass provisions including funding of projects on the contingency list are allowed by the procedures of this IUP and state rules for administration of the DWSRF without public notification. Adjustments to the Project Priority List to utilize actual funds available to the DWSRF for FY 2018 will be considered minor and only affected applicants will be notified. Public notice of amendments will be made if municipalities are added to or removed from the Project Priority List.

VI. PUBLIC REVIEW AND COMMENT

A public meeting to allow input to Iowa's SFY 2018 IUP and Project Priority List was held May 11, 2017, 10:00 a.m., at the Wallace State Office Building, Conference Room 5E, 502 E. 9th Street, Des Moines. This meeting was announced in a notice provided to stakeholder organizations representing city officials, consulting engineers, county governments, councils of government, area planning agencies, US EPA Region VII and other groups which might have an interest. There were no attendees. The public comment period was open until May 18, 2017. Written comments were received from the U.S. Environmental Protection Agency Region 7 SRF staff. Comments will be addressed in the next quarterly update.

VII. PROJECT PRIORITY LIST

The DWSRF Project Priority List is included in a separate, sortable Excel file.

APPENDIX A

**Iowa DWSRF State Fiscal Year 2018 1Q
Estimated Funding Sources and Funding Uses
As of 4/26/2017**

Funding Sources for Loans

Funds Available in Equity Fund and Program Accounts	\$81,262,000 *
FFY 2017 Capitalization Grant	\$10,567,000 **
State Match for FFY 2017 Capitalization Grant	\$0
Issuance of Leveraged Bonds (next bond issue expected SFY 2019)	\$0
Equity Fund and Program Interest Earnings	\$269,000
Loan Repayments	\$36,244,000
Total Funding Sources for Loans	\$128,342,000

Funding Uses for Loans

Undisbursed Amounts Committed to Existing Loans (50% disbursement rate)	\$37,392,000
Project Requests (FNSI/CX issued; 55% disbursement rate)***	\$30,842,000
Project Requests (FNSI/CX not issued; 50% disbursement rate)***	\$30,610,000
Planning & Design Requests (50% disbursement rate)	\$2,718,000
Principal Payments on Outstanding Bonds	\$16,090,000
Interest Payments on Outstanding Bonds	\$10,690,000
Total Funding Uses for Loans	\$128,342,000

* Funds Available for disbursements as of 4/28/2016

** Estimated amount

*** Loan disbursement rates are estimated based on previous experience with project pace. For projects that currently have not had a Finding of No Significant Impact or Categorical Exclusion issued, it is expected that up to 50% of the total project amounts may be disbursed during SFY 2018 once environmental review is completed, construction permit issued, and binding loan commitment signed. For those projects with FNSI/CX clearance, the disbursement rate is estimated at 55% of the loan request amount.

Funding Sources for Set Asides (Includes FFY 2016 & previous Cap Grants)

Available Balance under Existing Capitalization Grants for set asides:

Administration	\$784,000
Small Systems Technical Assistance	\$210,000
State Program	\$1,147,000
Other Authorized Activities	\$2,485,000
Total Funding Sources for Set-Asides	\$4,626,000

Funding Uses for Set Asides

Administration	\$784,000
Small Systems Technical Assistance	\$210,000
State Program	\$1,147,000
Other Authorized Activities	\$2,485,000
Total Uses for Set Asides	\$4,626,000

**APPENDIX B
PROCEDURES TO DETERMINE PROJECT PRIORITY LIST**

Project rankings were determined by the following procedures:

- Eligibility of applications were determined by needs criteria identified in IAC 567—44.7(8). In general, most water source, treatment and distribution system improvements are considered eligible.
- Project applications received during the FY 2018 application period were considered for funding in FY 2018; if not funded by the end of FY 2018, these projects will be moved to the FY 2019 project priority list.
- The priority ranking is a total score developed using the scoring criteria listed in IAC 567—44.7(8). Points may be gained in each of five categories: Water Quality and Human Health Risk-Related Criteria (60 point maximum), Infrastructure and Engineering-Related Improvement Criteria (35 point maximum), Affordability Criteria (10 point maximum), Special Category Improvements (15 point maximum), and IDNR Adjustment Factor for Population (10 points). The combined score provides a numerical measure to rank each project within its pool. A project with a larger number receives higher priority.
- The final project priority list for a fiscal year's project pool is compiled in the following manner: Subsequent segments of projects funded by DWSRF loan programs of previous years will retain their original score and be added to the list of the current year's applications.
- Loan-eligible projects submitted will be placed on the IUP each calendar quarter. If the project is anticipated to proceed during FY 2018, the project will be added to the project priority list and the list will be made available for public comment at the end of each calendar quarter in which one or more projects are added to the list.
- Projects on the project priority list will be moved to contingency status if the total amount of needs exceeds the year's DWSRF staff resources capability and loan funding. Projects will be funded from the top down in the ranking order of the project priority list with consideration given to readiness to proceed. Projects are ranked similarly in the contingency project list. Projects on contingency status can be moved to the funding list when funds are available or when the project is ready to proceed. Funds can be made available due to a number of reasons including project bypasses, loan application withdrawal of other projects, reduction in loan amount requests, or an increase in available funds.

**APPENDIX C
BORROWERS RECEIVING ADDITIONAL SUBSIDIZATION OR COUNTED FOR GREEN PROJECT RESERVE**
Loan forgiveness in the DWSRF program has been provided for four categories of projects:

- Public health (PH)
- Green projects (G)
- Disadvantaged communities (D)
- Emergency power generation (EP)

Type	Project	Loan Amount	Amount Green Project Reserve	Amount Additional Subsidization	Grant Year Reported
PH	Charlotte	93,000		46,500	2010
G	Colfax	477,068	477,068	143,120	2010
G	Durant	174,423	182,000	34,885	2010
G	Humboldt	6,814,000	1,800,000	360,000	2010
D	Keokuk	1,600,000		480,000	2010
D	Lidderdale	1,212,461		967,476	2010
G	Lyon-Stioux RWS	455,000	454,500	90,900	2010
G	Maquoketa	492,000	492,000	98,400	2010
D	New Hartford	81,000		16,200	2010
D	Ottumwa	1,400,000		560,000	2010
D	Ottumwa	1,666,000		666,400	2010
D	Rathbun RWA	5,199,541		1,559,862	2010
D	Rolfe	1,020,790		510,395	2010
G	Shenandoah	14,057,000	2,228,000	1,050,000	2010
D	Union	658,000		190,198	2010
G	Le Mars	1,010,000		202,000	2010
G	Le Mars		1,010,000		2011
PH	College Springs	82,307		41,154	2011
G	Ottumwa	1,250,000	1,250,000	250,000	2011
PH	Timber Ridge Water Utility Corporation	181,281		112,500	2011
G	Shenandoah		3,000,000		2011
PH	Hills	4,151,000		2,075,250	2011
PH	Hills	1,588,894		840,000	2011
PH	Churdan	928,388		490,255	2011
G	Ames	76,325,000	30,000,000	665,396	2011
PH	Frankville (Winneshek Co)	910,000		202,000	2011

D	Ralston	275,000		110,000	2011
G	Ames			3,064,000	2012
G	Ames			2,869,604	2013
G	Wall Lake	132,000		26,400	2013
D	Ottumwa	4,500,000		1,800,000	2014
PH	Frankville (Winneshiek Co BOS)			253,000	2014
EP	Marshalltown	8,344,000		442,500	2014
PH	Farley	1,200,000		900,000	2015
PH	Dyersville	1,373,000		1,029,750	2015
	TOTAL	138,051,153	10,893,568	22,350,145	

Project Name	DWSRF No.	Project Description	IUP Yr	Project Type	Priority Points	Quarter	Population	Project Status	Current Requests	Loan Forgiveness
Sidney	FS-36-18-DWSRF-004	Construction of a new water treatment plant, 2 new water supply wells, high service pumping system and replacement of old 150,000 gallon elevated storage tank	2018	A,B,E	90	1	1138	P	\$ 4,213,000	
Newton	FS-50-18-DWSRF-001	Cover existing backwash tank with new building	2018	B	15	1	16262	P	\$ 402,000	
Lakota	FS-55-18-DWSRF-002	Install a new Water Treatment Plant	2018	B,C,E	35	1	255	P	\$ 424,000	
Donnellson	FS-56-18-DWSRF-003	Connecting to Rathbun Regional Water System	2018	A,C,E	70	1	912	P	\$ 658,000	
Dedham	PD-DW-18-01	Construction of a new well at alternative location to provide city with backup water supply	2018	G	P&D	1	266	R	\$ 50,000	
Armstrong	PD-DW-18-02	Water Treatment Plant Improvements	2018	G	P&D	1	943	R	\$ 238,000	
Baxter	PD-DW-18-03	Study and design of drinking water infrastructure	2018	G	P&D	1	1101	R	\$ 101,250	
Iowa Lakes Regional Water	PD-DW-18-04	Development of a water treatment plant and well field	2018	G	P&D	1		R	\$ 750,000	
Cleghorn	PD-DW-18-05	Improvements to city water system to include water main looping/replacement & appurtenances	2018	G	P&D	1		R	\$ 200,000	
Raymond	FS-07-17-DWSRF-028	Watermain Loop connecting to Waterloo Water Works	2017	B	20	4	788	P	\$ 1,688,400	
Alta	FS-11-17-DWSRF-027	Water main replacement	2017	A,B,E	45	4	1960	P	\$ 1,348,000	
Dubuque	FS-31-17-DWSRF-026	Construction of a water pumping facility and connection to two homeowners' associations	2017	B,E	40	4	57852	P	\$ 10,801,400	
Johnston	PD-DW-17-50	New pump station, water main, and emergency generator	2017	G	P&D	4	17306	R	\$ 500,000	
Olin	PD-DW-17-52	New well, controls, generator	2017	G	P&D	4	698	R	\$ 95,000	
Fort Dodge	PD-DW-17-55	Addition of water softening process to water treatment plant	2017	G	P&D	4	25206	R	\$ 1,200,000	
Armstrong	FS-32-17-DWSRF-020	Water treatment improvements	2017	A,B,E	70	3	943	P	\$ 1,100,000	
Sheffield	FS-35-17-DWSRF-024	Watermain replacement of older undersized watermain within the drinking water distribution system with new 6" or 8" watermain	2017	B,C,E	40	3	1172	P	\$ 1,570,000	
Jewell	FS-40-17-DWSRF-015	Replace current filtering system to remove the ammonia, arsenic, and hardness in the water	2017	B,E	25	3	1215	P	\$ 1,847,766	
Belleveue	FS-49-17-DWSRF-021	Construction of a water treatment facility	2017	A,E	60	3	2191	P	\$ 1,819,000	75%

Gallery Acres West HOA (Solon)	FS-52-17-DWSRF-017	Resolve arsenic MCL through connection to another system or construction of new well and treatment	2017	A,E	60	3	43	P	\$ 1,039,000	75%
Lacina Meadows HOA	FS-52-17-DWSRF-022	Connecting to the City of Iowa City water supply to supply drinking water	2017	A,E	60	3	58	P	\$ 939,000	75%
Swea City	FS-55-17-DWSRF-023	Replacement of approximately twenty five (25) blocks of undersized, four-inch water main that consist of asbestos cement.	2017	A,B,C,E	55	3	555	P	\$ 1,844,000	
Truro	FS-61-17-DWSRF-016	Replace all AC water distribution piping, increasing size of water mains being replaced, and modifying the height of the existing EST to improve distribution system pressure.	2017	A,B,E	45	3	485	P	\$ 866,000	
Walnut	FS-78-17-DWSRF-019	Addition of a replacement bedrock aquifer (Jordan) well and associated raw water main	2017	B,C,E	55	3	785	P	\$ 1,890,000	
Raymond	PD-DW-17-25	Construction of water main loop to increase water system flows, pressures, quality and reliability	2017	G	P&D	3	788	R	\$ 150,000	
Rathbun Regional Water (RRWA)	FS-04-17-DWSRF-010	Replacement of aging water meters with a new advanced/smart metering system.	2017	C,D	15	2	28215	P	\$ 2,902,945	30% of cost of water meter equipment and installation
Janesville	FS-09-17-DWSRF-009	Install new water main that connects the western portion of Janesville to the eastern portion.	2017	B,E	30	2	930	P	\$ 1,015,000	
Farley	FS-31-17-DWSRF-008	An HMO treatment system is proposed to remove radium from the raw well	2017	A,B,E	70	2	1537	P	\$ 2,311,000	
Lyon & Sioux Rural Water	FS-60-17-DWSRF-011	Installation of permanent emergency generators for the Klondike WTP & Larchwood WTP to treat and pump water to the distribution system during power outages	2017	B,E	25	2	1390	P	\$ 131,000	75% of cost of generator equipment and installation
Washington	FS-92-17-DWSRF-007	Construct new treatment plant modifications	2017	B,E	25	2	7266	P	\$ 3,977,790	
Sioux City (Western Hills/Indian Hills)	FS-97-17-DWSRF-012	Construction of a new water tank and a large capacity water main	2017	B	20	2	82759	P	\$ 8,000,000	
Sioux City (Zenith Water Treatment Plant)	FS-97-17-DWSRF-013	Add standby generator to Riverside Collector and improvements to the chemical feed systems	2017	B	15	2	82759	P	\$ 1,797,267	

Oelwein	FS-33-17-DWSRF-004	Rehabilitation of existing well, new well house, chlorine feed system, emergency generator	2017	B,C,E	55	1	6415	P	\$ 1,033,000	75% of cost of generator equipment and installation
Amana Society Service Company	FS-48-17-DWSRF-001	Replace with 250,000 gallon new elevated water storage and construct booster station. New 8-inch main is also proposed	2017	A,B,E	95	1	1224	P	\$ 5,603,000	75%
Osceola County Rural Water System	FS-71-17-DWSRF-003	New treatment plant to remove iron and manganese, generator, ground storage reservoir, well buildings	2017	B,E	40	1	754	P	\$ 6,643,000	75% of cost of generator equipment and installation
Kelley	FS-85-17-DWSRF-005	Connection to Xenia Rural Water System, disconnection of well, water tower rehabilitation	2017	B,E	45	1	310	P	\$ 552,000	
Fort Dodge	FS-94-17-DWSRF-006	Upgrade of all water meters and addition of automatic reading system	2017	B	20	1	25,206	P	\$ 4,347,000	30% of cost of water meter equipment and installation
Solon	FS-52-16-DWSRF-016	Construct additional storage capacity including 400,000 gallon storage reservoir and booster station, generator	2016	B,E	45	4	2037	R	\$ 1,891,000	75% of cost of generator equipment and installation
Anamosa	FS-53-16-DWSRF-019	Plant Expansion	2016	B,C,E	50	4	4283	P	\$ 1,660,000	
New Sharon	FS-62-16-DWSRF-017	Construction of 7,400 I.F. of 8" transmission main along with related valves, booster pump and connections. Water treatment plant improvements and 1,500 I.F. of 6" water main	2016	B,E	30	4	1293	P	\$ 1,319,050	
Johnston	FS-77-16-DWSRF-018	Upgrade existing aging water distribution system	2016	B	20	4	17306	P	\$ 1,810,000	
West Des Moines	FS-77-16-DWSRF-022	Construction of 1 Jordan aquifer and 2 shallow alluvial aquifer wells to provide redundancy of source water supply	2016	B	35	4	56609	R	\$ 1,891,000	
Amana Society Service Company	PD-DW-16-48	Solutions to pressure problems and well replacement	2016	G	P&D	4	1224	R	\$ 1,150,000	
Anamosa	PD-DW-16-49	Plant Expansion	2016	G	P&D	4	4283	R	\$ 321,350	
Osceola County Rural Water System	PD-DW-16-52	Construction of new 2,400 gpm iron and manganese removal water treatment plant	2016	G	P&D	4	4929	R	\$ 465,000	
Livermore	DROPPED	Install a new submersible pump and process piping for Well #5 to tie into existing treatment plant, water meters	2016	B,C,E	55	3	384	P	\$ 1,186,000	30% of cost of water meter equipment and installation
Alta	FS-11-16-DWSRF-011	Construction of a new well	2016	B,E	45	3	1960	P	\$ 846,000	
Wahpeton	FS-30-16-DWSRF-014	Construction of new 150,000 gallon elevated water storage tank, generator	2016	B,E	45	3	438	R	\$ 1,191,000	75% of cost of generator equipment and installation

Westgate	FS-33-16-DWSRF-015	Construct a new water tower	2016	B,E	45	3	211	P	\$ 568,000	
Fenton	FS-55-16-DWSRF-012	Install new water tower	2016	B,C,E	55	3	281	P	\$ 392,000	
Cushing	FS-97-16-DWSRF-013	Construction of a new 55,000 gallon standpipe for water storage, water meters, emergency generator	2016	B,E	30	3	220	P	\$ 517,000	30% of cost of water meter equipment and installation, 75% of cost of generator equipment and installation
Keswick	FS-54-16-DWSRF-009	Replacement of all remaining cast iron main, add system looping and add new flushing hydrants, new isolation valves and service connections.	2016	B,C,E	40	2	246	P	\$ 411,497	
Farmington	FS-89-16-DWSRF-006	Replace old cast iron water man and underground storage tank with above ground tank	2016	B,C,E	40	2	664	P	\$ 312,000	
Ridgeway	FS-96-16-DWSRF-007	Water main replacement project, generator	2016	B,C,E	40	2	315	P	\$ 380,000	75% of cost of generator equipment and installation
Aplington	FS-12-15-DWSRF-017 (2)	New single pedestal elevated tank solution.	2015	B,E	30	4	1158	R	\$ 227,000.00	
Van Meter	FS-25-15-DWSRF-020	New Water Treatment Plant	2015	B,E	45	4	1054	P	\$ 4,608,000	
Guthrie Center	FS-39-15-DWSRF-017	Water main replacement and new water service connection	2015	B,C,E	40	4	1569	R	\$ 518,660	
Dakota City	FS-46-15-DWSRF-020	Construct a 2nd well	2015	B,C,E	55	4	843	R	\$ 708,525	
Sabula	FS-49-15-DWSRF-019	Water main replacement on Broad street, water meters	2015	B,C,E	40	4	576	P	\$ 787,920	30% of cost of water meter equipment and installation
Sioux Rapids (revised)	FS-11-15-DWSRF-015	New well, new water treatment plant for nitrate removal and iron/manganese removal, replace booster pumps, piping, and controls	2015	B,E	45	3	775	P	\$ 1,269,000	
Mt Ayr	FS-80-15-DWSRF-013	Water main replacement and water plant demolition	2015	B,C,E	40	3	1691	R	\$ 1,005,000	
Little Sioux	FS-43-15-DWSRF-010 (2)	Water distribution system improvements	2015	B,C,E	40	2	170	R	\$ 84,000	
Coralville	FS-52-15-DWSRF-008	Water plant expansion and pumping improvements at main booster station to provide redundancy and capacity	2015	B	15	2	18907	P	\$ 5,000,000	
Ruthven	FS-74-15-DWSRF-006	New well to replace Well #1, aeralator rehab, control panel replacement, water main replacement to improve pressure and add new valves and hydrants	2015	B,C,E	55	2	779	P	\$ 1,316,550	

Asbury	FS-31-15-DWSRF-001	Constructing water main looping, installing new well and elevated storage tank	2015	B,E	45	1	4545	P	\$ 3,404,700	
Muscatine Power & Water	FS-70-14-DWSRF-022	Watermain replacement project, generator	2014	B	15	4	24386	R	\$ 2,432,416	75% of cost of generator equipment and installation
Muscatine Power & Water	PD-DW-14-44	Water main replacement, generator	2014	G	P&D	4	24386	R	\$ 215,915	
Council Bluffs	DROPPED	Purchase Property adjacent to WW to protect wells from farm contamination	2014	D	15	3	63783	R	\$ 800,000	
De Soto	FS-24-14-DWSRF-011	New water treatment facility	2014	B,E	25	3	1050	P	\$ 3,295,000	
Ida Grove	FS-47-14-DWSRF-008	Add new permanent well	2014	B,E	45	3	2158	P	\$ 339,017	
Schleswig	DROPPED	Replacement of aging water main to reduce water loss, looping	2014	B,C,E	40	2	882	P	\$ 2,338,000	
Stanwood	FS-16-13-DWSRF-021	Construction of approx 2700 lineal feet of new 6 inch PVC pipe, including new valves, hydrants.	2013	B,C,E	40	4	684	R	\$ 786,841	
Sioux City	FS-97-13-DWSRF-001	I-29 Utility Relocation	2013	B	20	1	82684	R	\$ 7,000,000	
Cedar Falls Utilities	FS-07-12-DWSRF-028	Water main extension to connect homes with nitrate contaminated private wells	2012	A	35	4	39260	P	\$ 1,380,670	75%
Shenandoah	FS-73-12-DWSRF-020	Water meter replacement	2012	B,C,D,E	45	4	5546	R	\$ 80,800	20%
Mt Ayr (supplemental)	FS-80-12-DWSRF-014 (2)	Movement of prefabricated booster pump station to new location to improve pressures	2012	B,E	20	4	1691	P	\$ 275,000	
Albia	FS-68-12-DWSRF-008	Water main replacement	2012	B,C,E	40	2	3706	P	\$ 350,000	
Ralston	FS-14-11-DWSRF-034/R	Redundant well, booster pump installation, treatment plant upgrades	2011	B,C,E	55	4	98	R	\$ 275,000	40%
									\$ 128,855,729	
Project Status	Project Type									
Contingency -- C	A = Water Quality and Human Health Risk-Related Criteria									
Dropped -- D	B = Infrastructure and Engineering-Related Improvement									
Ready for Loan -- R	C = Affordability Criteria									
Loan Signed -- L	D = Special Category Improvements									
Planning Stage -- P	E = Project Serves Population less than 10,000									
	F = Supplemental Loan for Previously Approved Project									
Water and Energy Efficiency	G = Planning and Design Loan									
Emergency Generators										
Disadvantaged Communities										
Public Health Projects										

Project Name	NPDES No.	Project Number	CWSRF No.	Project Description	IUP Yr	Needs Category	Priority Points	Quarter	Project Status	Current Requests	Loan Forgiveness	Loan Signed	Original Request	Loan Amount
Baxter	5003001		PD-CW-18-11	Study and design of sewer infrastructure	2018	IVA	P&D	1	R	\$ 101,250				
Blairstown	607001		PD-CW-18-15	Improvements to an aerated lagoon	2018	I	P&D	1	R	\$ 147,500				
Burlington	2909001		PD-CW-18-10	Combined sewer separation	2018	V	P&D	1	R	\$ 308,957				
Calmar	9615001		PD-CW-18-06	New submerged Growth Reactor (SAGR) system	2018	II	P&D	1	R	\$ 225,000				
Galva	4715001		PD-CW-18-09	Improvements to WWTP	2018	I	P&D	1	R	\$ 238,000				
Glidden	1438001		PD-CW-18-07	Construction of a new aerated lagoon facility	2018	I	P&D	1	R	\$ 215,000				
Madrid	0848001		PD-CW-18-13	Wastewater Treatment Facility upgrade	2018	II	P&D	1	R	\$ 460,000				
Milford	3050901		PD-CW-18-16	Upgrade infrastructure on H Avenue from 10th Street to 13th St.	2018	IIIB	P&D	1	R	\$ 97,500				
Nora Springs	3423001		PD-CW-18-08	New Wastewater Treatment Facility	2018	II	P&D	1	R	\$ 750,000				
Wastewater Reclamation Authority	7727001		PD-CW-18-14	WRF Phosphorus Recovery Facility project	2018	II	P&D	1	R	\$ 1,600,000				
West-High Amana SSD	4880901		PD-CW-18-12	Improvements to aerated lagoon to comply with e. coli and ammonia standards	2018	II	P&D	1	R	\$ 85,000				
Burlington	2909001	S2017-0262	1920843 01	Replacement of a new sanitary sewer along the existing combined sewer alignment	2018	V	247	1	P	\$ 6,197,000				
Central City	5720001	2017-0057A	1920836 01	WWTP Expansion to include ammonia removal and disinfection. Gravity sewer expanded to allow for removal of lift station	2018	II, IV-A	259	1	P	\$ 3,122,000				
Eagle Grove	9926001	S2015-0355	1920841 01	Wastewater Treatment System Upgrade	2018	I, II	264	1	P	\$ 19,576,000				
Gilbert	8531001	S2010-0025	1920844 01	Convert existing controlled lagoon system to continuous discharge aerated lagoon system. Supplemental ammonia removal process and UV disinfection will be included	2018	I, II	274	1	P	\$ 3,819,000				
Indianola	9133001	S2017-0298	1920848 01	Morlock Lift Station Sanitary Sewer Improvements	2018	IVA, IVB	129	1	P	\$ 3,291,375				
Lisbon	5748001	S2017-0295	1920839 01	Rehabilitation of existing sanitary sewer collection system to reduce I&I	2018	III-A	155	1	P	\$ 1,489,000				
Marshalltown	6469001	S2017-0286	1920840 01	Lamp hole, tee, and manhole replacements with new manholes, along with pipe point repairs	2018	III-A	165	1	P	\$ 2,900,000				
Merrill	7548001	S2015-0366	1920846 01	Wastewater treatment facility improvements	2018	I, II	295	1	P	\$ 2,514,000				
Oskaloosa	6273001	S2017-0294	1920845 01	Wastewater Collection System Improvements	2018	III-A	142	1	P	\$ 7,064,000				
Roland	8570001	S2016-0050	1920826 01	Convert existing aerated lagoon to enhanced treatment aerated lagoon with the addition of Lemna system to meet new effluent ammonia limits. Addition of UV disinfection.	2018	II	242	1	P	\$ 2,886,360				

Scranton	3759001	S2016-0048	1920847 01	Convert existing aerated lagoon to an enhanced one with the addition of a SAGR system	2018	I, II	290	1	P	\$ 2,137,133				
Sioux Center	8486002	S2016-0169	1920838 01	Construction of a new main lift station, preliminary treatment, activated sludge with biological nutrient removal, UV disinfection, and aerated digestion	2018	1, II, IV-B	297	1	P	\$ 28,140,000				
Stanwood	1681001	S2017-0085A	1920835 01	Improvements include Submerged Attached Growth Reactors installation for removal of ammonia nitrogen with recycle loop for total nitrogen removal. New diffused aeration system.	2018	II	224	1	P	\$ 2,280,646				
Sully	5076001	S2016-0092	1920837 01	Sewage Treatment Plant Improvements to comply with new permit limit.	2018	II	242	1	P	\$ 1,065,000				
Templeton	1479001	S2017-0101	1920831 01	Expand lagoon capacity but increasing size of primary cell and adding another secondary cell	2018	I	139	1	P	\$ 1,050,225				
Tiffin	5288001	S2015-0202	1920842 01	Wastewater Treatment Plant Improvements - Phase 2	2018	I, II	189	1	p	\$ 5,250,000				
Garrison	0625001	S2015-0228	1920830 01	Collection System Rehabilitation	2017	IIIA, IIIB	169	4	R	\$ 665,000				
Pierson	9766002		PD-CW-17-42	Inflow/infiltration correction	2017	IIIA	P&D	4	R	\$ 96,000				
Pisgah	4364001		PD-CW-17-45	Inflow/infiltration correction	2017	IIIA	P&D	4	R	\$ 43,825				
Sheldahl	8580001		PD-CW-17-41	Analysis of treating own wastewater or continuing to pump to Slater	2017	I	P&D	4	R	\$ 20,000				
Smithland	9783001		PD-CW-17-43	I/I correction, lagoon improvements, disinfection	2017	IIIA, II	P&D	4	R	\$ 109,500				
Winthrop	1093001	S2016-0312	PD-CW-17-46	Converting existing aerated lagoon into covered aerated lagoon followed by a submerged fixed film polishing reactor (Lemna system) to improve ammonia removal, upsizing existing Main lift station.	2017	I	P&D	4	R	\$ 200,000				
Calmar	9615000	S2015-0451	1920823 01	Utilization of a new Submerged Attached Growth Reactor (SAGR) System for their existing aerated lagoon and a new Ultraviolet (UV) disinfection system	2017	II	240	4	P	\$ 3,501,000				
Creston	8816001	S2015-0383	1920834 01	Repair/replacement of aging infrastructure and addition of disinfection	2017	I, II	232	4	P	\$ 2,686,365				
Greenfield	0140001	S2013-0215	1920822 01	Construct a new activated sludge treatment plant at a new site.	2017	I,II	285	4	P	\$ 6,342,000				
Klemme	4155001	S2013-0199	1920833 01	Meet effluent limits by constructing an equalization basin, UV disinfection, and a new outfall	2017	II	240	4	P	\$ 563,000				

Lake View	8127001	S2015-0174	1920828 01	Construction of a new enhanced aerated lagoon system using LEMNA or SAGR	2017	I,II	264	4	P	\$ 4,696,000				
LeGrand	8657001	S2015-0434	1920821 01	Convert existing lagoon to a controlled discharge	2017	I,II	295	4	P	\$ 2,389,000				
Mediapolis	2948001	S2015-0002	1920832 01	WW Lagoon Improvements - Phase 1 Sewer Rehab	2017	II	174	4	P	\$ 1,759,000				
Moville	9753001	S2017-0190	1920825 01	Replacement of a new lift station, sized to account for future growth of the city and increased I/I. Two submersible pumps will be installed, and the City will have option to install a grinder pump	2017	IVB	122	4	P	\$ 875,000				
New Sharon	6264001	S2015-0384	1920829 01	Improvements to treatment plant including addition of treatment units to allow facility to meet new discharge limits	2017	I,IIIA	242	4	P	\$ 1,653,000				
Slater	8580001	S2016-0070	1920820 01	Wastewater Treatment Facility Improvements	2017	I,II	267	4	P	\$ 6,650,000				
Springville	5782002	S2016-0174	1920824 01	Sanitary sanitary sewer collection system improvements	2017	IIIA,IVB	144	4	P	\$ 837,000				
Winthrop	1093001	S2016-0312	1920827 01	Converting existing aerated lagoon into covered aerated lagoon followed by a submerged fixed film polishing reactor (Lemna system) to improve ammonia removal, upsizing existing Main lift station.	2017	II	274	4	P	\$ 2,075,000				
Eagle Grove			PD-CW-17-34	Wastewater Treatment System Upgrade	2017	II	P&D	3	R	\$ 1,000,000				
Hubbard	425001	S2017-0079	1920817 01	Sanitary Sewer Construction and Rehabilitation	2017	IIIA	152	3	R	\$ 2,176,000				
Modale			PD-CW-17-30	Lagoon Rehabilitation	2017	I	P&D	3	R	\$ 60,500				
Tipton			PD-CW-17-32	Wastewater treatment improvements to meet effluent ammonia, E.coli, and metals requirements in the city's NPDES Permits	2017	II	P&D	3	R	\$ 300,000				
Ames	8503001	S2017-0017	1920819 01	Water Pollution Control Facility	2017	I	170	3	P	\$ 625,000				
Corydon	9334004	S2014-0043	1920815 01	Wastewater Treatment Facility Improvements	2017	II	237	3	P	\$ 3,304,000				
Eldridge	8230003	S2015-0001	CS1920818 01	Change lagoons to equalization basins. New Lift Station, force main, gravity sewer, increased SBR treatment capacity at South Slope, addition of disinfection and sludge treatment improvements	2017	I, II, IVB	264	3	P	\$ 14,970,000				
Ogden	0858001	S2014-0142	1920816 01	Plant upgraded to meet NPDES Permit	2017	I,II	280	3	P	\$ 4,809,126				
Allison	1203001	S2014-0095	1920802 01	Wastewater Treatment Facility Improvements	2017	II	260	2	R	\$ 2,367,268				
Moravia			PD-CW-17-31	I&I reduction in sewer collection system	2017	IIIA	P&D	2	R	\$ 115,000				

Shenandoah	3659001	S2016-0002	1920806 01	3 phase wastewater treatment facility improvements - Phase 1: Solids Treatment & Disposal - Phase 2: Collection System and Wastewater Plant Permit Compliance - Phase 3: Wastewater Treatment Facility Nutrient Reduction Strategy	2017	I,II	290	2	R	\$ 643,000				
Slater	8580001	S2016-0293	1920803 01	Extend sanitary collection system that includes construction of a duplex pump station	2017	IVB	122	2	R	\$ 936,000				
Waterloo (CIPP Phase III)	0790001	S2016-0285	1920811 01	Excavating and repairing pipe using traditional methods. Rehabilitate sanitary sewers and rehabilitate manholes that have deteriorated.	2017	III-A	185	2	R	\$ 2,498,000				
Waukee	2573001	S2016-0413	1920810 01	Upgrade existing lift station and force main	2017	IV-B	119	2	R	\$ 12,537,000				
Fayette	3342001	S2016-0375	1920812 01	Slip lining approximately 5,320 feet of sanitary sewer main and completing spot repairs at 10 locations through the collection system.	2017	IIIA	154	2	P	\$ 319,999				
Oxford	5260001	S2016-0049	1920804 01	Install UV disinfection system and other minor improvements	2017	II	240	2	P	\$ 650,000				
Sioux City	9778001	S2016-0389	1920813 01	Improve various treatment plant equipment to renew initial capacity, improve performance, improve reliability and improve life of treatment system.	2017	I,II	217	2	P	\$ 12,710,000				
Wastewater Reclamation Authority	7727001	S2016-0238	1920805 01	Replace with stacked tray (HeadCell) grit removal technology in the vicinity of existing grit aerated grit chambers.	2017	I	180	2	P	\$ 9,500,000				
Waterloo (Dry Run Creek Interceptor)	0790001	S2015-0280	1920807 01	New lift station, force main and gravity sewer are proposed	2017	IV-B	150	2	P	\$ 4,337,000				
Waterloo (Flow Equalization Facility Overflow Connection to Satellite WPCF)	0790001	S2015-0284	1920808 01	Install new gravity line from existing equalization basin to the Satellite Aeration basins. Also include discharge pipe from the Satellite basins to the Easton Aeration Basin	2017	I	170	2	P	\$ 978,000				
Waterloo (Instrumentation & Controls Systems)	0790001	S2015-0365	1920809 01	Upgrade current Programmable Logic Controllers (PLCs). Upgrade current Supervisory Control & Data Acquisition (SCADA) system communication protocol. Add fiber Optic for bringing new systems onto the network	2017	II	180	2	P	\$ 1,089,000				

Woodward	2576001	S2015-0344	1920814 01	Convert existing aerated lagoon to enhanced treatment aerated lagoon with the addition of a Lemna system. Addition of UV disinfection for new e.coli limits	2017	II	242	2	P	\$ 2,763,750				
Algona	5502001	S2016-0239	1920796 01	Rehabilitation project to address I/I related and structural issues in existing sanitary sewer pipes and manholes	2017	IIIA, IIIB,	195	1	R	\$ 2,396,000				
Algona	5502001	S2016-0239	PD-CW-17-01	Rehabilitation and reconstruction of the sanitary sewer collection system	2017	IIIB	P&D	1	R	\$ 130,000				
Oelwein	3353001	S2016-0256	1920793 01	Installation of two new wastewater pumps to increase capacity of existing 20th Street Lift Station. Improvements to the electrical service, existing control panel and addition of VFDs.	2017	IVB	122	1	R	\$ 248,000				
Slater	8580001		PD-CW-17-07	Wastewater treatment plant improvements necessary in order to meet ammonia-nitrogen, dissolved oxygen and E. coli discharge limits.	2017	II	P&D	1	R	\$ 461,000				
Des Moines	77277001 (WRA)	S2016-0194	1920795 01	Near West Side: Construction of some new storm sewer systems, some new sanitary sewer and one pump station. Construction of a regional detention basin to mitigate increase of flooding	2017	IIIA, IIIB, IVA, V, VI	305	1	P	\$ 18,600,000				
Elkhart	7730001	S2015-0187	1920798 01	Construction of an outfall sewer leading from the existing wastewater treatment plant to the new wastewater treatment facility	2017	I, II, IVB	305	1	P	\$ 3,865,000				
Emerson	6520001	S2015-0430	1920790 01	Collection System Improvements	2017	IIIA, IVB	159	1	P	\$ 1,023,200				
Lenox	8748001	S2013-0187	1920799 01	Construction of a submerged attached growth reactor (SAGR) system	2017	II	149	1	P	\$ 2,261,000				
Norway	0656001	S2015-0209	1920794 01	Addition of a secondary treatment that is capable of treating the ammonia-nitrogen. Disinfection facilities will be installed to meet the e.coli effluent limits	2017	I, II	222	1	P	\$ 3,065,000				
Wastewater Reclamation Authority	7727001	S2016-0243	1920797 01	Biogas Conditioning & injection Improvements	2017	II	175	1	P	\$ 12,814,000				
Ames	8503001	S2013-0327	1920741 02	Address infiltration and inflow into the City's sanitary sewer system utilizing a variety of rehabilitation techniques.	2016	IIIA	145	4	R	\$ 21,432,000				

Fort Madison	5625001	S2016-0150	1920786 01	Construction of a new gravity sanitary sewer interceptor along H avenue to capture sanitary sewer flows from the north.	2016	IVB	152	4	R	\$ 3,250,170				
Johnston	7727001 (WRA)	S2016-0194	1920782 01	Installation of sanitary sewer in area currently on septic systems, implementation of green storm water infrastructure practices within the Green Meadows West Subdivision	2016	IVA, IVB, VI	230	4	R	\$ 15,180,000				
Oelwein	3353001		PD-CW-16-40	Installation of new sanitary sewer	2016	IVA	P&D	4	R	\$ 33,500				
Stanwood	1681001	S2016-0154	1920783 01	Removal, replacement and abandonment of gravity sanitary sewer and replace with a sanitary sewer that will reduce I/I in the collection system	2016	IIIA	127	4	R	\$ 276,800				
Ames	8503001	S2016-0071	1920789 01	To improve screening at the WPCF city intends to replace existing channel grinder with a mechanical bar screen	2016	I	170	4	P	\$ 981,000				
Bancroft	5507002	S2014-0136	1920777 01	Increase capacity of existing controlled discharge lagoon. Piping improvements within facility will also be done.	2016	I	139	4	P	\$ 848,000				
Brandon	1011001	S2009-0160	1920779 01	Add a UV system (SAGR) to disinfect the effluent and meet the NPDES Permit requirements for E.Coli	2016	II	225	4	P	\$ 1,638,000				
Denison	2424001	S2016-0117	1920778 01	Replacement & Rehabilitation of structures and equipment approaching the end of their service lives	2016	II	190	4	P	\$ 4,020,000				
Des Moines	7727001 (WRA)	S2016-0196	1920781 01	Lower Oak Park/Highland Park: Remove storm sewer inlets within the drainage basin that are connected to combined sewer and either eliminate or tie to dedicated storm sewers. Existing sewers will become dedicated sanitary sewers	2016	V	240	4	P	\$ 12,060,000				
Dubuque	3126001	S2016-0206	CS1920792 01	Relocation and reconstruction of sanitary sewer along Kerper Blvd.	2016	IIIB	147	4	P	\$ 2,507,000				
Manning	1457001	S2016-0188	1920785 01	Replace existing sanitary sewer using materials and construction techniques for reduction in I&I	2016	IIIA	142	4	P	\$ 600,000				
Mt Pleasant	4453001	S2015-0081	1920780 01	Main plant upgrades and sewer system	2016	II	275	4	P	\$ 3,518,000				

Reinbeck	3870001	S2015-0175	1920776 01	Construct an UV disinfection system to meet the effluent limits dictated by The Iowa Department of Natural Resources and NPDES Permitting.	2016	II	225	4	P	\$ 596,000				
West Union	3383303	S2015-0356	1920791 01	Construction of equalization basin and lift station along with installation of ultraviolet disinfection system.	2016	II	225	4	P	\$ 888,000				
Hills	0047902	S2015-0027	1920765 01	Addition of a 3rd lagoon, ultraviolet disinfection and a new outfall to existing treatment facilities.	2016	I, II	290	3	R	\$ 3,015,000				
Mapleton	6727001	S2015-0440	PD-CW-16-30	Wastewater Treatment Improvements to comply with ammonia nitrogen limits, maintain TSS limits, and meet new NPDES standards	2016	I	P&D	3	R	\$ 225,000				
Cincinnati	0410001	S2014-0275	1920763 01	Utilize existing aerated lagoon for primary and secondary treatment and construct an aerated horizontal flow submerged attached growth reactor (SAGR) system for ammonia removal. Constructin of small building to house the blowers, controls, and electrical	2016	II	227	3	P	\$ 2,236,000				
Coralville	5208001	S2014-0388	1920767 01	Improvements to the treatment system include expansion of equalization basin; new headworks; new aeration basins; final clarifiers, and replacement of UV disinfection system.	2016	I, II	250	3	P	\$ 27,648,000				
Davis City	2715001	S2016-0072	1920769 01	Rehabilitation of existing sanitary sewer mains and sanitary sewer manholes. Drainage & erosion improvements at the wastewater facility.	2016	IIIA	100	3	P	\$ 457,000				
Fort Atkinson	9641001	S2015-0087	1920770 01	Construct a larger Lagoon that will only discharge once a year. Also includes an ultra violet disinfection system.	2016	I, II	290	3	P	\$ 1,249,000				
Greene	1253001	S2015-0235	1920775 01	Construct a new Submerged Attached Growth Reactor (SAGR) system for existing aerated lagoon and a new UV disinfection system.	2016	II	249	3	P	\$ 3,670,260				
Marathon	1150001	S2015-0402	1920771 01	Construct a 3 cell controlled discharge lagoon to meet the NPDES Permit Limits	2016	I	162	3	P	\$ 1,171,000				

New Albin	0370001	S2013-0348	1920768 01	Replacement of secondary treatment facility including new influent pumps, preliminary screening equipment, activated sludge treatment system.	2016	I	185	3	P	\$ 2,185,000				
St Donatus	4979001	S2011-0308	1920773 01	Relining existing two cell lagoon and construction of lift station	2016	I, IVB	185	3	P	\$ 398,000				
West Burlington	2985001	S2014-0456	1920766 01	Improvements include additional activated sludge treatment tankage and conversion of existing aerated lagoon cells in to flow equalization basins. New headworks facility and upgrades to existing aged equipment and standby power.	2016	I	214	3	P	\$ 10,000,000				
Harris	7222001	S2015-0358	1920757 01	Sanitary Sewer Rehabilitation	2016	IIIA	145	2	R	\$ 582,685				
Keota	5440001	S2015-0069	1920761 01	Construction of Submerged Attached Growth Reactors and UV system	2016	II	142	2	R	\$ 2,988,770				
RUSS(Moar/Powdertown)	Unsewered		PD-CW-16-11		2016	I,IVA	P&D	2	R	\$ 100,000				
De Soto	2529001	S2014-0066	1920759 01	Wastewater Treatment Facility Improvements	2016	II	232	2	P	\$ 2,887,000				
Grinnell	7930001	S2014-0189	1920762 01	Wastewater treatment facility improvements	2016	II	222	2	P	\$ 10,403,000				
Postville	0375001	S2015-0412	1920756 01	Sanitary Sewer Rehabilitation Phase II	2016	IIIA	155	2	P	\$ 1,015,000				
Sanborn	7165001	S2012-0256	1920752 01	Improvements to Wastewater treatment facility as a result of a new NPDES permit and increase loading from and industrial facility	2016	II	167	2	P	\$ 5,063,000				
Strawberry Point	2279001	S2015-0213	1920753 01	WWTP Disinfection and Ammonia Removal	2016	II	250	2	P	\$ 426,000				
Sabula	4975001	S2015-0208	1920749 01	Collection System Improvements	2016	IIIA	157	1	R	\$ 389,940				
Wastewater Reclamation Authority	7727001	S2015-0261	1920750 01 (Phase 27, Segment 1-8)	Eastside Interceptor	2016	IVB	135	1	R	\$ 28,340,000				
Ames	8503001	S2013-0327	1920741 01	Sanitary Sewer Rehabilitation	2015	IIIA	160	4	R	\$ 2,588,970				
Duncombe	9427001	S2015-0164	1920740 01	Lift Station	2015	IIIB	165	4	R	\$ 404,990				
Granville	8429001	S2015-0163	1920738 01	2015 Sanitary Sewer project	2015	IIIA	152	4	R	\$ 696,968				
Keystone	064001	S2014-0164	1920743 01	WWTF Upgrade	2015	II	247	4	R	\$ 3,239,919				
Pleasantville	6377001	S2013-0174	1920737 01	WWTP Improvements	2015	II	229	4	R	\$ 4,120,500				
Spencer	2171004	S2016-0203	1920745 02	Fourth Avenue West CSO separation	2015	V	200	4	R	\$ 4,025,000				
Belle Plaine	0610001	S2012-0141	1920744 01	Wastewater Disposal System Improvements	2015	II,IIIA	259	4	P	\$ 2,448,180				
Keokuk	5640001	S2015-0088	1920732 01	Sewer Rehabilitation - Phase 1	2015	IIIA	237	4	P	\$ 1,484,700				
Fort Dodge	9433003	S2015-0080	1920728 02	Sanitary Sewer Rehabilitation	2015	IIIA, IIIB	195	3	R	\$ 10,900,000				
Hospers	8439001		PD-CW-15-17	Wastewater treatment plant expansion	2015	II	P&D	3	R	\$ 277,000				
New Hampton	1970001	S2014-0034	1920721 01	Wastewater treatment plant improvements	2015	II	224	2	R	\$ 2,095,750				
Ruthven	7465001	S2014-0412	1920719 01	Wastewater System Improvements	2015	I, IIIA	129	2	R	\$ 1,549,710				
Blencoe	6709001	S2014-0409	1920720 01	Main Lift Station Improvements	2015	IIIB	142	2	P	\$ 179,694				

Wastewater Reclamation Authority (supplemental)	7727001	S2009-0219	1920457 05 (Phase 17, multiple phases)	New Main Outfall, supplemental loan to finalize costs	2015	IVB	160	1	R	\$ 3,000,000				
Wastewater Reclamation Authority (supplemental)	7727001	S2009-0219	1920499 02 (Phase 17, Segment 7)	New Main Outfall, Phase 17 Segment 7 final costs	2015	IVB	160	1	R	\$ 10,400,000				
Fairfield	5131001	S2013-0368	1920706 01	Construction of a forcemain	2015	IVB	157	1	P	\$ 3,817,548				
Chariton		S2014-0106A	PD-CW-14-36	Increase capacity of 12th St Lift Station and replace NW Lift Station with new structures and equipment.	2014	IVB	P&D	4	R	\$ 137,900				
Ames	8503001	S2013-0326	1920686 01	WPCF Biosolids Storage Tank	2014	II	180	3	R	\$ 1,885,400				
Coralville	5208001		PD-CW-14-31	Replace manholes, reconstruct sewer lines at Oakdale trunk sewer and replace lift station and force main for Muddy Creek	2014	IIIB	P&D	3	R	\$ 270,263				
Garnavillo	2234001	S2012-0200	1920684 01	Installation of disinfection and ammonia removal and improvements to collection system	2014	II,IIIB	199	3	R	\$ 4,469,250				
Dyersville	3130001	S2013-0342	1920690 01	SE Lift Station & Collection System Improvements	2014	IVB	127	3	P	\$ 1,476,620				
Miles	4953001	S2013-0064	1920688 01	Construction of controlled discharge lagoon	2014	I	227	3	P	\$ 1,932,000				
Martensdale	9147001	S2013-0292	1920682 01	Sewer rehabilitation	2014	IIIB	150	2	P	\$ 833,800				
Marengo	4843001	S2013-0052	1920661 01	Infiltration/inflow correction to address permit violations at treatment facility	2013	IIIA	162	3	R	\$ 883,000				
Patterson	6151001	S2011-0078	1920659 01	Upgrade pump station capacity, reduce inflow/infiltration, install new force main with goal of reducing sewer backups	2013	IIIB	165	3	R	\$ 54,540				
Mt Pleasant	4453001	S2012-0407	1920665 01	Replacement of remaining portions of Snipe Run Interceptor to transfer flows to new wastewater treatment facility	2013	IIIB	125	3	P	\$ 1,600,000				
Dakota City	4622001		PD-CW-13-15	Infiltration/inflow correction through sewer relining	2013	IIIA	P&D	2	R	\$ 85,000				
Sioux City	9778001	S2010-0080	1920647 02	The Iowa Department of Transportation is constructing improvements to Interstate 29, which requires Sioux City to relocate existing sanitary sewer interceptor and storm sewers.	2013	IVB	130	1	R	\$ 34,500,000				
Clinton (Phase II, Part 2)	2326001	S2005-0016	1920629 01	US 30/67 and Camanche Avenue (Reconstruction & Sewer Separation)	2012	V	144	4	R	\$ 3,535,000				
Hamburg	3621001		PD-CW-12-29		2012	II	P&D	4	R	\$ 100,000				
Elkhart	7730001	S2012-0137	1920634 01	Inflow and infiltration correction	2012	IIIA	129	4	P	\$ 609,030				
Nemaha	Unsewered		PD-CW-12-04		2012	I,IIIB	P&D	2	R	\$ 75,000				
La Porte City	0743001	S2009-0187	1920620 01	Wastewater treatment plant improvements	2012	I,II	220	2	P	\$ 917,822				
North English	4858001		PD-CW-11-36		2012	II,IIIA,IIIB	P&D	1	R	\$ 140,000				

Dubuque (Revised Upper Bee Branch)	N/A	N/A	GNS10-5 (2)	Stream daylighting	2011	VII-K	162	4	R	\$ 7,716,000			
Wastewater Reclamation Authority	7727001	S2010-0310	1920593 03 (Phase 19 Seg 1-4)	Interceptor sewer to convey wastewater from Bondurant to the Wastewater Reclamation Facility	2011	IVB	150	2	R	\$ 16,545,820			
Bennett	1603001	S2010-0120	1920529 01	Sewer rehabilitation, pump station upgrades	2011	IIIA	137	1	R	\$ 1,971,000			
Brighton	9209001	S2009-0288	1920515 01	Sewer rehabilitation, wastewater treatment plant upgrade	2011	II,IIIB	140	1	R	\$ 2,675,000			
Lamont	1061001	S2010-0116	DROPPED	Lagoon upgrade, pump station upgrade	2011	I	140	1	R	\$ 1,169,665			
Libertyville	5148001		PD-CW-10-51		2011	I,IIIA,IIIB,VI	P&D	1	R	\$ 95,000			
Reasnor	5071001	S2009-0207	1920543 01	Lagoon expansion	2011	I	160	1	R	\$ 737,805			
Spencer	2171004	S2010-0111	1920528 01	Combined sewer separation	2011	V	185	1	R	\$ 2,300,000			
Coralville	N/A	N/A	GNS10-4	Green infrastructure practices at the Iowa River Landing	2010	VIIIK	120	4	P	\$ 2,950,000	30%		
Mingo	5052001	S2008-0304	1920510 G1/1920510 R1	Lagoon expansion	2010	I	172	3	R	\$ 1,365,000			
Wheatland	2394001		PD-CW-10-10		2010	IIIA, IIIB,V	P&D	3	R	\$ 67,000			
										\$ 570,326,448		\$ -	\$ -
Project Status													
				Needs Categories									
			I	Secondary Treatment									
Dropped -- D			II	Treatment more stringent than secondary									
Ready for Loan-- R			IIIA	Infiltration/Inflow rehabilitation									
Loan Signed -- L			IIIB	Major sewer system rehabilitation									
Planning Stage -- P			IVA	New collectors and appurtenances									
			IVB	New interceptors and appurtenances									
Green Projects (*indicates that a business case is required)			V	Correction of combined sewers									
			VI	Stormwater management programs									
Add Subs			VII	Non-point source control projects; subcategories below:									
				VIIA Agricultural cropland sources									
				VII B Animal sources									
				VII C Silviculture									
				VII D Urban sources									
				VII E Groundwater protection (unknown sources)									
				VII F Marinas									
				VII G Resource extraction									
				VII H Brownfields									
				VII I Storage tanks									
				VII J Landfills									
				VII K Hydromodification									
				XII Decentralized septic systems									

**Environmental Protection Commission
Iowa Department of Natural Resources**

ITEM

9

DECISION

TOPIC

Contract with Hy-Vee, Inc. (Charles City) for 2017 Project AWARE Catering

Recommendations:

The Department requests Commission approval of a contract with Hy-Vee, Inc. of Charles City, Iowa. The contract will begin on June 21, 2017 and terminate on August 1, 2017. The total amount of this contract shall not exceed \$35,000.

Funding Source:

This contract will be funded through volunteer registration fees which are deposited in DNR account 0884-542-0072-CQ. Project AWARE volunteers pay a registration fee that will be used to cover their meals.

Background:

Project AWARE is a volunteer river cleanup event sponsored and coordinated by the Iowa Department of Natural Resources during which 100+ volunteer participants per day canoe one of Iowa's rivers, cleaning garbage and debris as they go. In 2017, the event will focus on 60 miles of the upper Cedar River in north-central Iowa from Otranto to Charles City. The event will occur July 10-14, 2017. During the event, participants camp at predetermined locations, and a catering service provider provide the meals each day. Catering services will begin with lunch on July 10, 2017, and end with lunch on July 14, 2017.

Purpose:

The parties propose to enter into this contract for the purpose of retaining the Contractor to provide meals to the Project AWARE volunteers each day beginning with lunch on Monday July 10, 2017, and ending with lunch on Friday July 14, 2017.

Contractor Selection Process:

The Iowa Department of Natural Resources solicited services to provide meals for the Project AWARE participants. Received bids were reviewed based on evaluation criteria. Hy-Vee, Inc. (Charles City) was selected based on price of meals, diverse menu, use of local foods, flexibility, environmentally responsible service, quality and quantity, and experience and qualifications.

Roger Bruner, Supervisor
Watershed Monitoring and Assessment Section, Water Quality Bureau
Environmental Services Division
June 20, 2017

Attachment(s): Scope of Work from the Special Conditions for Contract

5.1 Statement of Work. Consistent with Exhibits A, B, and C, which attached to this Contract, and are described and adopted by reference in section 5.6, below, Contractor shall perform the following Tasks. All Tasks shall be completed as provided in the Contractor shall complete its obligations under this Contract by the Task Milestone Dates set out in the following table:

Obligation	Task Milestone Date
Task 1: Finalized Menu. Any changes to the Finalized Menu shall be completed, and a revised version of Exhibit B shall be attached to and become a part of this Contract. The current Finalized Menu is attached to this Contract as Exhibit B.	Any changes to the Finalized Menu contained in Exhibit B shall be provided to DNR within five days of the date this Contract is signed by both parties.
Task 2: Meal Service	As outlined in schedule below.
Task 3: Ice for Lunches	Provided each morning with lunch as outlined in the schedule below.
Task 4: Wash and Rinse Stations	Provided at each day with breakfast and dinner as outlined in the schedule below.

5.1 Task 1: Finalized Menu

Description: The contractor shall provide to the DNR a finalized menu that has been mutually agreed upon by both parties. The menu shall include options for regular and vegetarian meals. Meals must include, at a minimum, the following:

- Breakfast: One entrée, two sides, fresh fruit tray, juice, coffee & milk.
 - Powdered eggs and egg substitute are prohibited.
- Lunch: One entrée, veggie pack, fruit choice & dessert.
 - Volunteers will pack their lunches into coolers each morning, so lunch items should be packaged (or be able to be packaged onsite) accordingly.
 - Volunteers generally do not carry silverware with them for lunch so lunch should consist of finger foods only.
 - Simply providing a meatless option doesn't necessarily satisfy a vegetarian requirement. Sprouts, spinach, avocado, etc. are needed to provide substance and nutrition in the absence of meat. Additionally, alternative sources of protein such as nuts and seeds, beans, hummus, soy, whole grains, free-range eggs and dairy products (milk, cheese, and yogurt) are also needed.
- Dinner: One entrée, two sides, dessert, milk, and choice of 2 drinks.

5.1 Task 2: Meal Service

Description: The contractor shall provide meals (regular, vegetarian, and special dietary needs) to the DNR at the event following the schedule outlined below. The DNR, however, retains the ability to change these times and locations with reasonable notice to the contractor. The contractor shall provide resources necessary to provide full-service catered meals for this event, including but not limited to: delivery, serving tables, refrigeration devices, cooking equipment, heating instruments, and vehicles. All additional resources must conform to any applicable standards, permits, regulations, and/or laws.

Meal Packet	Date	Meal	Time	Serving Location
Packet #1	Monday, July 10	Lunch, Sack Lunch	12:00 pm	Otranto Park near Otranto (IA)
Packet #2	Monday, July 10	Dinner, Hot Meal	6:00pm	Otranto Park near Otranto (IA)
	Tuesday, July 11	Breakfast, Hot Meal	7:00am	
Lunch, Sack Lunch				
Packet #3	Tuesday, July 11	Dinner, Hot Meal	6:00pm	Interstate Park near Mitchell (IA)
	Wednesday, July 12	Breakfast, Hot Meal	7:00am	
Lunch, Sack Lunch				
Packet #4	Wednesday, July 12	Dinner, Hot Meal	6:00pm	Riverfront Park in Charles City (IA)
	Thursday, July 13	Breakfast, Hot Meal	7:00am	
Lunch, Sack Lunch				
Packet #5	Thursday, July 13	Dinner, Hot Meal	6:00pm	Riverfront Park in Charles City (IA)
	Friday, July 14	Breakfast, Hot Meal	7:00am	
Lunch, Sack Lunch				

5.1 Task 3: Ice for Lunches

Description: The contractor shall provide 150 pounds of ice each morning so volunteers may keep their lunches cool, with the exception that ice will not be provided on the morning of Monday, July 10.

5.1 Task 4: Wash and Rinse Stations

Description: The contractor shall provide 40 gallons of hot water for wash and rinse stations at breakfast and at dinner each day, as well as lunch on Monday, July 10. Volunteers are required to bring their own reusable dinnerware with them so caterers do not need to provide plates, cups and silverware. DNR will provide four 10-gallon beverage coolers to use for this purpose.

* The DNR will provide to the contractor the final number of meals (regular, vegetarian, and special dietary needs) to be served at the event one week prior to the beginning date of service.

Project AWARE 2017 · Volunteer Cleanup Upper Cedar River · July 10-14, 2017



60-MILE RIVER CLEANUP ON THE UPPER CEDAR RIVER (IOWA/MINNESOTA STATE LINE TO NASHUA)

- Paddle up to 17 river miles per day, loading your boat with trash as you go.
- Limited number of canoes available on a first-come, first-served basis.
- Daily educational programs & water quality monitoring.
- Catered meals (*registration fee = cost of meals*).
- Tent camping areas provided each night.

***Volunteer for a day, a week,
or anytime in between.***

Registrations must be postmarked by
June 16, 2017

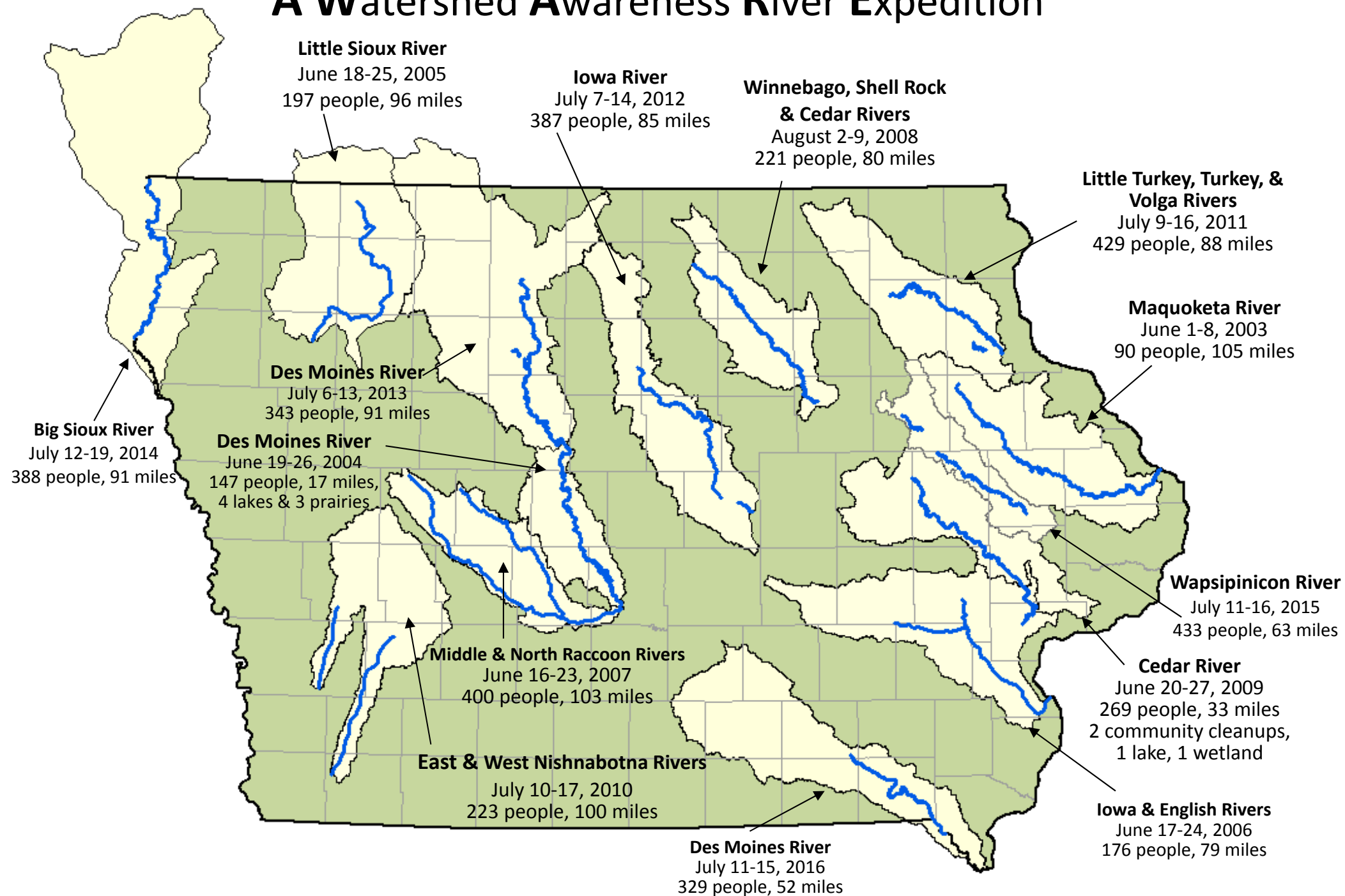
(to avoid a \$10 late fee and to guarantee meals)



For more information, contact **Lynette Seigley 319-351-9393**
email: Lynette.Seigley@dnr.iowa.gov or visit: www.iowadnr.gov/aware

Project AWARE

A Watershed Awareness River Expedition



**Environmental Protection Commission
Iowa Department of Natural Resources**

ITEM

10

DECISION

TOPIC

**Contract with Contract with State Hygienic Laboratory at The University of Iowa for
Ambient Stream Biological Monitoring and Laboratory Services**

Recommendations:

Commission approval is requested for a service contract with the State Hygienic Laboratory (SHL) at the University of Iowa. The contract will begin on July 1, 2017 and terminate on September 30, 2018. The total amount of this contract shall not exceed \$543,021.30.

Funding Source:

This contract will be funded using Environment First Funds.

Background:

The Clean Water Act requires states to monitor and report on the condition of the waters of the state. This contract is a continuation of DNR's long-standing partnership with SHL to collect and analyze samples from Iowa's streams and rivers. Since 1994, the DNR has conducted biological assessments of Iowa streams to determine the ecological status and health of these waterbodies. The protocol primarily consists of sampling water quality, fish, benthic macroinvertebrates and physical habitat during the summer low-flow index period (July through October).

Purpose:

The parties propose to enter into this Contract for the purpose of retaining the Contractor to provide: sampling and analytical services for the ambient biological monitoring and assessment program.

Contractor Selection Process:

The State Hygienic Laboratory at the University of Iowa was chosen for this project because of its ability to provide the necessary services. The authority to enter into this Contract is found in Iowa Code section 455B.103(3).

Contract History:

The FY14 Ambient Stream Biological Monitoring and Laboratory Services (AMBIO) contract was \$882,901.35.

The FY15 AMBIO contract was \$873,259.37.

The FY16 AMBIO contract was \$606,706.20.

The FY17 AMBIO contract was \$663,278.76.

Roger Bruner, Supervisor
Water Quality Bureau, Environmental Services Division
June 20, 2017

Attachment(s): Statement of Work from the Special Conditions for Contract

Section 5 STATEMENT OF WORK

5.1 Statement of Work. Contractor shall perform the following Tasks. Contractor shall complete its obligations under this Contract by the Task Milestone Dates set out in the following table.

Obligation	Task Milestone Date
<p>Task 1: Calibrated Wadeable Stream Reference Site Sample Collection and Biological Analysis Description: One full biocriteria (IBI) sampling event shall be completed by the Contractor at each of the 26 Calibrated Wadeable Stream Reference sites identified in Exhibit A, which is attached to and shall by this reference become a part of this Contract. All biological and physical habitat data shall be entered by the Contractor directly into the DNR's online BioNet database. All other recorded observations shall be reported to the DNR in a DNR-approved electronic format. Contractor shall provide the following Deliverables to DNR for each of the 26 sites listed in Exhibit A:</p> <ul style="list-style-type: none"> a) <u>Calibrated wadeable stream reference site sample collection</u>: benthic macroinvertebrates and fish (2015 revised DNR IBI protocols, 2015 revised DNR field forms); quantitative transect-based habitat survey (2015 revised DNR intensive habitat protocol; 2015 revised DNR intensive habitat field forms); benthic chlorophyll, water quality grab sample and field analytes (aquatic life parameter suite, as set out in Table 1, below). b) <u>Analysis of fish and benthic macroinvertebrate samples collected under Task 1a</u>: field form submittal, fish, benthic macroinvertebrate, physical habitat and field form data entry. c) <u>Contractor shall conduct QA/QC of all data</u> entered into the BioNet database under Task 1b. 	<p>Tasks shall occur by no later than the dates listed below:</p> <ul style="list-style-type: none"> a) October 15, 2017 b) April 1, 2018 c) May 1, 2018 <p>Any deviation from this schedule shall be approved in writing by the DNR prior to the change.</p>
<p>Task 2: New Random Survey Site Sample Collection and Biological Analysis Description: One full biocriteria (IBI) sampling event shall be completed by the Contractor at each of the 15 sites identified and described in Exhibit A. All biological and physical habitat data shall be entered by the Contractor directly into the DNR's online BioNet database. All other recorded observations shall be reported to the DNR in a DNR-approved electronic format. Contractor shall provide the following Deliverables to DNR:</p> <ul style="list-style-type: none"> a) <u>New random survey site sample collection</u>: benthic macroinvertebrates and fish (2015 revised DNR IBI protocols, 2015 revised DNR field forms); quantitative transect-based habitat survey (2015 revised DNR intensive habitat protocol; 2015 revised DNR intensive habitat field forms); benthic chlorophyll, water quality grab sample and field analytes (aquatic life parameter suite; as set out in Table 1, below). b) <u>Analysis of fish and benthic macroinvertebrate samples collected under Tasks 2a</u>; field form submittal; and fish, benthic macroinvertebrate, physical habitat and field form data entry. c) <u>Contractor shall conduct QA/QC of all data</u> entered into the BioNet database under Task 2b. 	<p>Tasks shall occur by no later than the dates listed below:</p> <ul style="list-style-type: none"> a) October 15, 2017 b) April 1, 2018 c) May 1, 2018 <p>Any deviation from this schedule shall be approved in writing by the DNR prior to the change.</p>
<p>Task 3: Repeat Random Survey Site Sample Collection and Biological Analysis Description: One full biocriteria (IBI) sampling event shall be completed by the Contractor at each of the 15 sites identified in Exhibit A. All biological and physical habitat data shall be entered by the Contractor directly into the DNR's online BioNet database. All other recorded observations shall be reported to the DNR in a DNR-approved electronic format. Contractor shall provide the following Deliverables to DNR:</p> <ul style="list-style-type: none"> a) <u>Repeat random survey site sample collection</u>: benthic macroinvertebrates and fish (2015 revised DNR IBI protocols, 2015 revised DNR field forms); quantitative transect-based habitat survey (2015 revised DNR intensive habitat protocol; 2015 revised DNR intensive habitat field forms); benthic chlorophyll, water quality grab sample and field analytes (aquatic life parameter suite, as set out in Table 1, below). b) <u>Data logger deployment: A data logger shall be deployed at each site</u> listed in Exhibit A for a two-week period directly preceding the biological sampling conducted at each site. The instruments shall be programmed to record dissolved oxygen and water temperature at six-minute intervals continuously throughout the deployment period. A flow measurement and two mini-flow measurements shall be taken at both deployment and retrieval visits. c) <u>Field form submittal, submission (electronic) of densiometer and current velocity measurements, data logger readings and flow measurements</u>. d) <u>Analysis of fish and benthic macroinvertebrate samples collected under Task 3a</u>; field form submittal; and fish, benthic macroinvertebrate, physical habitat and field form data entry. e) <u>Contractor shall conduct QA/QC of all data</u> entered into the BioNet database under Task 3c and 3d. 	<p>Tasks shall occur by no later than the dates listed below:</p> <ul style="list-style-type: none"> a) October 15, 2017 b) July 15-October 15, 2017 c) December 31, 2017 d) April 1, 2018 e) May 1, 2018 <p>Any deviation from this schedule shall be approved in writing by the DNR prior to the change.</p>
<p>Task 4: Coldwater Stream Reference Site Sample Collection and Biological Analysis Description: One full biocriteria (IBI) sampling event shall be completed by the Contractor at each of the three sites identified in Exhibit A. A water temperature logger shall be deployed at each stream site in this task for the duration of the biological index period. All biological and physical habitat data shall be entered by the Contractor directly into the DNR's online BioNet database. All other recorded observations shall be reported to the DNR in a DNR-approved electronic format.</p>	<p>Tasks shall occur by no later than the dates listed below:</p>

<p>Contractor shall provide the following Deliverables to DNR:</p> <ul style="list-style-type: none"> a) <u>Coldwater stream reference site sample collection</u>: benthic macroinvertebrates and fish (2015 revised DNR IBI protocols, 2015 revised DNR field forms); quantitative transect-based habitat survey (2015 revised DNR intensive habitat protocol; 2015 revised DNR intensive habitat field forms); benthic chlorophyll, water quality grab sample and field analytes (aquatic life parameter suite, as set out in Table 1, below). b) <u>Temperature logger deployment</u>: A temperature logger shall be deployed at each site listed in Exhibit A for the duration of the index period defined as July 3 through October 13, 2017. The instruments shall be programmed to record water temperature at six-minute intervals continuously throughout the deployment period. c) <u>Analysis of fish and benthic macroinvertebrate samples collected under Task 4a</u>; field form and thermal data submittal; and fish, benthic macroinvertebrate, physical habitat and field form data entry. d) <u>Contractor shall conduct QA/QC of all data</u> entered into the BioNet database under Task 4b. 	<ul style="list-style-type: none"> a) October 15, 2017 b) July 3 – October 13, 2017 c) April 1, 2018 d) May 1, 2018 <p>Any deviation from this schedule shall be approved in writing by the DNR prior to the change.</p>
<p>Task 5: Watershed Improvement Section (WIS) Survey Site Sample Collection and Biological Analysis Description: One full biocriteria (IBI) sampling event shall be completed by the Contractor at the site identified in Exhibit A. All biological and physical habitat data shall be entered by the Contractor directly into the DNR’s online BioNet database. All other recorded observations shall be reported to the DNR in a DNR-approved electronic format.</p> <p>Contractor shall provide the following Deliverables to DNR:</p> <ul style="list-style-type: none"> a) <u>Watershed Improvement Section (WIS) survey site sample collection</u>: benthic macroinvertebrates and fish (2015 revised DNR IBI protocols, 2015 revised DNR field forms); quantitative transect-based habitat survey (2015 revised DNR intensive habitat protocol; 2015 revised DNR intensive habitat field forms); benthic chlorophyll, water quality grab sample and field analytes (aquatic life parameter suite, as set out in Table 1, below). b) <u>Analysis of fish and benthic macroinvertebrate samples collected under Task 5a</u>; field form submittal; and fish, benthic macroinvertebrate, physical habitat and field form data entry. c) <u>Contractor shall conduct QA/QC of all data</u> entered into the BioNet database under Task 5b. 	<p>Tasks shall occur by no later than the dates listed below:</p> <ul style="list-style-type: none"> a) October 15, 2017 b) December 31, 2017 c) January 31, 2018 <p>Any deviation from this schedule shall be approved in writing by the DNR prior to the change.</p>
<p>Task 6: Stream Nutrient Criteria Sample Collection and Biological Analysis Description: The Contractor shall perform sample collection to support development of stream nutrient criteria.</p> <p>Contractor shall provide the following Deliverables to DNR:</p> <ul style="list-style-type: none"> a) <u>Water, chlorophyll and biological sample collection</u>: Surface water and benthic chlorophyll sampling shall occur biweekly between July 3 and September 22, 2017 at the three stream sites identified in Exhibit A. A total of six sets of samples shall be collected and analyzed for parameters listed in Table 1. The sixth set of samples shall be collected concurrently with collection of a full biocriteria sample (benthic macroinvertebrates, fish and intensive habitat). A densiometer reading and current velocity measurement shall be taken at each benthic chlorophyll sampling point. All biological and physical habitat data shall be entered by the Contractor directly into the DNR’s online BioNet database. All other recorded observations shall be reported to the DNR in a DNR-approved electronic format. b) <u>Data logger deployment</u>: A data logger shall be deployed at each site listed in Exhibit A for a ten-week period between July 3 and September 22, 2017. The instruments shall be programmed to record dissolved oxygen and water temperature at six-minute intervals continuously throughout the deployment period. A flow measurement and two mini-flow measurements shall be taken at deployment, retrieval and each two-week sampling / data logger maintenance visit. A submersible pressure transducer logger and an atmospheric pressure logger shall be deployed at each site. The loggers shall be programmed to record pressure measurements at 15-minute intervals throughout the deployment period. c) <u>Supplemental benthic macroinvertebrate sample collection</u>: A supplemental benthic macroinvertebrate IBI sample (2015 revised DNR IBI protocols, 2015 revised DNR field forms) shall be collected at each site in conjunction with a water and benthic chlorophyll sampling visit. Sampling shall occur no sooner than two weeks following data logger deployment and shall be separated by at least four weeks before or after full biocriteria sample. The field forms – benthic macroinvertebrate, RBP-qualitative habitat, Stressor ID, and flood disturbance shall be completed at each benthic macroinvertebrate IBI site. All biological and physical habitat data shall be entered by the Contractor directly into the DNR’s online BioNet database. All other recorded observations shall be reported to the DNR in a DNR-approved electronic format. d) <u>Field form submittal, submission (electronic) of densiometer and current velocity measurements, data logger readings and flow measurements</u>. e) <u>Analysis of fish and benthic macroinvertebrate samples collected under Tasks 6a and 6c</u>; field form submittal; and fish, benthic macroinvertebrate, physical habitat and field form data entry. f) <u>Contractor shall conduct QA/QC of all data</u> entered into the BioNet database under Tasks 6d and 6e. 	<p>Tasks shall occur by no later than the dates listed below:</p> <ul style="list-style-type: none"> a) July 3 – September 22, 2017 b) July 3 – September 22, 2017 c) July 17 – September 22, 2017 d) December 31, 2017 e) April 1, 2018 f) May 1, 2018 <p>Any deviation from this schedule shall be approved in writing by DNR prior to the change.</p>

<p>Task 7: Ambient WQ Site Biological Sample Collection and Analysis Description: The Contractor shall perform sample collection and analysis to support development of a benthic macroinvertebrate index for large Wadeable and non-Wadeable streams and for biological status monitoring. Contractor shall provide the following Deliverables to DNR:</p> <ul style="list-style-type: none"> a) <u>Benthic macroinvertebrate and phytoplankton sample collection:</u> One benthic macroinvertebrate sample consisting of three semi-quantitative subsamples and one qualitative sample (2015 DNR IBI protocols; 2015 revised DNR field forms) and one phytoplankton composition sample shall be collected at 15 DNR/SHL monthly stream monitoring locations as described in Exhibit A. Semi-quantitative samples shall be collected using either a Hess sampler or multi-plate (Hester-Dendy type) artificial substrates to be determined by the Contractor. The artificial substrate deployment and benthic macroinvertebrate sampling visits shall coincide with scheduled ambient monthly monitoring visits. A rapid habitat assessment form shall be completed at each site on the benthic macroinvertebrate sampling occasion. b) <u>Benthic macroinvertebrate sample analysis of samples collected under Task 7a; field form and benthic macroinvertebrate data entry.</u> Identification of benthic macroinvertebrates shall be completed to the lowest practical taxonomic level. In all of the semi-quantitative subsamples, the target level for organisms belonging to the aquatic Dipteran family of Chironomidae shall be genus or species. All biological and physical habitat data shall be entered by the Contractor directly into the DNR's online BioNet database. All other recorded observations shall be reported to the DNR in a DNR-approved electronic format. c) <u>Phytoplankton sample analysis of samples collected under Task 7a and data entry.</u> Identification of phytoplankton taxa shall be completed to the genus taxonomic level whenever feasible. Results shall be reported to DNR in a standardized electronic spreadsheet format approved by DNR. d) <u>Contractor shall conduct QA/QC of all data</u> entered into the BioNet database under Tasks 7b and 7c. 	<p>Tasks shall occur by no later than the dates listed below:</p> <ul style="list-style-type: none"> a) October 15, 2017 b) September 30, 2018 c) September 30, 2018 d) September 30, 2018 <p>Any deviation from this schedule shall be approved in writing by DNR prior to the change.</p>
<p>Task 8: Biological Trend Monitoring and Biological Analysis Description: The Contractor shall perform field work and sample collection to support biological trend monitoring. One full biocriteria (IBI) sampling event shall be completed by the Contractor at each of the nine sites identified in Exhibit A. The contractor will install and maintain continuous temperature and water level recording equipment at each site throughout the contract period. All biological and physical habitat data shall be entered by the Contractor directly into the DNR's online BioNet database. All other recorded observations shall be reported to the DNR in a DNR-approved electronic format. Contractor shall provide the following Deliverables to DNR:</p> <ul style="list-style-type: none"> a) <u>Trend site full biocriteria sample collection:</u> benthic macroinvertebrates and fish (2015 revised DNR IBI protocols, 2015 revised DNR field forms); quantitative transect-based habitat survey (2015 revised DNR intensive habitat protocol; 2015 revised DNR intensive habitat field forms); benthic chlorophyll, water quality grab sample and field analytes (aquatic life parameter suite; as set out in Table 1, below). b) <u>A flow measurement and nine densimeter readings (3 @ T1, 3@ T5 and 3 @ T10) shall be taken on each of the three maintenance visits.</u> The three maintenance visits shall be once during the full biological sampling visit, once in the fall prior to freeze up and once in spring after ice out. c) <u>Analysis of fish and benthic macroinvertebrate samples collected under Task 8a;</u> field form submittal; and fish, benthic macroinvertebrate, physical habitat and field form data entry. d) <u>Field form submittal, submission (electronic) of densimeter and current velocity measurements, data logger readings and flow measurements collected under Task 8b.</u> e) <u>Contractor shall conduct QA/QC of all data</u> entered into the BioNet database under Task 8c and 8d 	<p>Tasks shall occur by no later than the dates listed below:</p> <ul style="list-style-type: none"> a) October 15, 2017 b) July 1, 2017 – March 31, 2018 c) April 1, 2018 d) May 1, 2018 e) May 1, 2018 <p>Any deviation from this schedule shall be approved in writing by DNR prior to the change.</p>
<p>Task 9: Water Quality Sample Analysis and Data Submission Description: The Contractor shall perform the analyses on the water quality and chlorophyll samples collected in Tasks 1-6 and Task 8. Contractor shall provide the following Deliverables to DNR:</p> <ul style="list-style-type: none"> a) Benthic chlorophyll and water sample analysis and submission (electronic) of samples collected under Task 1a. b) Benthic chlorophyll and water sample analysis and submission (electronic) of samples collected under Tasks 2a. c) Benthic chlorophyll and water sample analysis and submission (electronic) of samples collected under Task 3a. d) Benthic chlorophyll and water sample analysis and submission (electronic) of samples collected under Task 4a. e) Benthic chlorophyll and water sample analysis and submission (electronic) of samples collected under Task 5a. f) Benthic chlorophyll and water sample analysis and submission (electronic) of samples collected under Tasks 6a and 6b. g) Benthic chlorophyll and water sample analysis and submission (electronic) of samples collected under Task 8a. 	<p>Tasks shall occur by no later than the dates listed below:</p> <ul style="list-style-type: none"> a) December 1, 2017 b) December 1, 2017 c) December 1, 2017 d) December 1, 2017 e) December 1, 2017 f) December 1, 2017 g) December 1, 2017 <p>Any deviation from this schedule shall be approved in writing by the DNR prior to the change.</p>

<p>Task 10: Supplemental Monitoring Description: Contractor shall collect, analyze and report biological, water quality or fish tissue samples as part of follow-up monitoring or to investigate other water quality issues not covered elsewhere in this contract. Samples collected under this task shall be specified, and approved in writing, by the DNR Contract Manager. a) All sample analysis and submission (electronic) of samples collected under Task 10.</p>	<p>Tasks shall occur by no later than the dates listed below: a) September 30, 2018 Any deviation from this schedule shall be approved in writing by the DNR prior to the change.</p>
<p>Task 11: Site Reconnaissance and Landowner Contacts Description: SHL shall provide assistance to DNR for completing desktop review, field reconnaissance of sites and contacting landowners for the SFY2019 field season.</p>	<p>No later than: September 30, 2018 Any deviation from this schedule shall be approved in writing by the DNR prior to the change.</p>
<p>Task 12: Professional Services Description: SHL shall provide professional assistance to DNR in regard to the development of the large river and headwater stream IBIs. This assistance shall include researching the IBIs and data analysis. SHL shall provide a report to DNR, detailing all work completed under this Task, by the end of the contract period. DNR reserves the right to change the research and data analysis direction of this task at its discretion.</p>	<p>No later than: September 30, 2018 Any deviation from this schedule shall be approved in writing by the DNR prior to the change.</p>
<p>Task 13: Data Transfer Description: SHL shall make the data generated pursuant to this Contract available to DNR electronically through the State Hygienic Laboratory OpenELIS database web portal. Data shall be available for download by DNR staff in a mutually agreeable format. The available sample information shall include the STORET station identification number, which will be provided by DNR for all station locations. Data shall be retrievable via the web portal by DNR staff. Analytical reports may be retrieved electronically by DNR staff having the appropriate authorization. SHL shall assist DNR staff in obtaining appropriate authorization when requested. When accessing electronic data, the following information is required:</p> <ul style="list-style-type: none"> • SHL OpenELIS/Telcor Organization ID number 4454 • SHL Project Code AMBIO 	<p>Analytical chemistry data shall be made available to DNR staff no later than 15 calendar days following the end of the month of collection. If the contractor determines that extra time is needed to complete required analyses, then a written notification shall be made to the DNR submitter or contract manager. The notification shall include the reason for the delay and the specific analytical chemistry data requiring delayed reporting. The notification shall occur as soon as possible after the contractor has determined the need for a reporting delay.</p>

Table 1. Expanded aquatic life suite water quality sampling parameters, frequency and fee.

Parameter	Fee/ Test	# Sampling Sites	Total # of Samples	Total Fee
Carbonaceous Biochemical Oxygen Demand (CBOD5)	\$36.50	72	87	\$3,175.50
Chloride	\$14.50	72	87	\$1,261.50
Chlorophyll-A (periphyton)	\$43.50	72	87	\$3,784.50
Chlorophyll-A (sediment)				
Chlorophyll-A (water)				
Field Measurements: (Dissolved Oxygen, pH, Stream Flow, and Water Temperature)	\$38.50	72	87	\$3,349.50
Hardness (as CaCO3)	\$14.50	72	87	\$1,261.50
Neonicotinoid Pesticides*	\$310.00	3	9	\$2,790.00
Ammonia Nitrogen	\$65.50	72	87	\$5,698.50
Nitrite + Nitrate Nitrogen				
Total Kjeldahl Nitrogen				
Dissolved Orthophosphate	\$29.00	72	87	\$2523.00
Total Phosphorus				
Sulfate	\$14.50	72	87	\$1,261.50
Total Dissolved Solids	\$14.50	72	87	\$1,261.50
Total Suspended Solids	\$14.50	72	87	\$1,261.50
Total Volatile Suspended Solids	\$29.00	72	87	\$2523.00
Turbidity	\$13.50	72	87	\$1,174.50
Total:				\$38,895.00
*Only collected monthly (July, August and September) at the three Task 6 sites. The September sample shall be collected concurrently with collection of the full biocriteria sample.				

**Environmental Protection Commission
Iowa Department of Natural Resources**

ITEM

11

DECISION

TOPIC

**Contract with The University of Iowa on behalf of the State Hygienic Laboratory for
Ambient Stream Monitoring Services FY2018**

Recommendations:

Commission approval is requested for a 1 year-service contract with The University of Iowa on behalf of the State Hygienic Laboratory (SHL) of Iowa City, Iowa. The contract will begin on July 1, 2017 and terminate on June 30, 2018. The total amount of this contract shall not exceed \$611,413.92.

Funding Source:

This contract will be funded through State of Iowa Environment First Appropriations for Water Quality Monitoring.

Background:

The Clean Water Act requires States to monitor their waters to determine the status and trends in water quality. These data are used to determine general trends in larger river systems in the state, potential impairments, and provide information to decision makers regarding the effectiveness of water pollution prevention programs. The DNR has contracted with SHL to collect water samples at streams across the State of Iowa and to test water samples for general chemistry, nutrients, and sediment content. Data are placed into a publicly available database and are used by a wide variety of stakeholders including water quality programs; and for scientific research and general education.

Purpose:

The parties propose to enter into this Contract for the purpose of retaining the Contractor to provide: assistance to DNR in sampling, analysis, and reporting on the water quality of streams in the State of Iowa.

Contractor Selection Process:

The University of Iowa on behalf of the State Hygienic Laboratory was chosen for this project because of their history in the program and ability to provide the necessary services. The authority to enter into this Contract is found in Iowa Code section 455B.103(3).

Contract History:

This is the nineteenth year of contracting with SHL to provide sample collection and analysis services for the ambient stream sites in Iowa. Last year's contract was not to exceed \$535,442.80. This year's contract adds several compounds to begin addressing efforts that could eventually result in changes to 567 Iowa Administrative Code Chapter 61 water quality standards to use dissolved metals instead of the current total metals criteria. This contract reduces sampling events for the parameters to support the option for use of the Biologic Ligand Model method.

Presenter's name: Roger Bruner

Presenter's Title: Supervisor

Presenter's Bureau and Division: Water Quality Bureau, Environmental Services Division

Commission Date: June 20, 2017

Attachment(s): Scope of Work from the Special Conditions for Contract

Task*	Total Amount of compensation allotted to Task (Variable Payment)	Task Milestone Date	Invoice Due No Later Than:
Task 1 : Ambient Stream Sample Collection	Not to exceed \$169,200 at a cost of \$227 per sample for the sample locations listed in Table 1A. An additional collection cost not to exceed the additional incremental cost per site of \$16.00 has been included for the analytes in Tables 1D.	Each month, samples shall be taken by the 15 th of the month, or as early as possible in the month pending any sampling and/or scheduling constraints. Contractor shall notify the DNR of all sampling dates beyond the 15th of the month in writing no later than the 15th of the month.	Invoices due monthly; 30 days after the end of the previous month.
Task 2: Ambient Stream Sample Analysis	Not to exceed \$237,360.00 at the costs per test listed in Table 1B.	Samples shall be analyzed no later than established holding times listed in Exhibit A with the exception of bacteria, which shall have a holding time of 30 hrs for purposes of this task. For purposes of invoices, the effective Task Milestone Date shall be the last day of the month.	Invoices due monthly; 30 days after the end of the previous month.
Task 3: Additional Analyte Analyses	Not to exceed \$151,758.00 at the costs per test listed in Tables 1C, 1D and 1E.	Samples shall be collected every other month starting July 2017, (July 2017, September 2017, November 2017, January 2018, March 2018, and May 2018). Samples shall be analyzed no later than established holding times listed in Exhibit A. samples shall be taken by the 15th of the month, or as early as possible in the month pending any sampling or scheduling constraints. The Contractor shall notify the DNR of all sampling dates beyond the 15th of the month in writing no later than the 15 th of the month. For purposes of invoices, the effective Task Milestone Date shall be the last day of the month.	Invoices due monthly; 30 days after the end of the previous month.
Task 4: QA/QC Procedures	\$0	The Task shall be completed no later than 30 working days after a request is made by DNR.	N/A
Task 5: Additional Sampling in Support of Nutrient Reduction Strategy Goals including Subtask 1	Not to exceed \$3,706 including Task 5a at the costs per test listed in Table 1E.	Each month, in conjunction with Task 1. Samples shall be analyzed no later than established holding times listed in Exhibit A. For purposes of invoices, the effective Task Milestone Date shall be the last day of the month.	Invoices due monthly; 30 days after the end of the previous month.
Task 6: Data Transfer	N/A	Analytical chemistry data shall be made available to DNR staff no later than 15 calendar days following the end of the month of collection. If the contractor determines that extra time is needed to complete required analyses, then a written notification shall be made to the contract manager. The notification shall include the reason for the delay and the specific analytical chemistry data requiring delayed reporting. The notification shall occur as soon as possible after the contractor has determined the need for a reporting delay.	N/A
Task 7: Equipment Purchase	Not to exceed \$2,500	This Task shall be completed no later than June 30, 2017.	Invoices due monthly; 30 days after the end of the previous month.
Task 8: Equipment Repair	Not to exceed \$500	This Task shall be completed no later than June 30, 2017	Invoices due monthly; 30 days after the end of the previous month.
Task 9: Shipping Samples	Not to exceed \$500	This Task shall be completed no later than June 30, 2016	Invoices due monthly; 30 days after the end of the previous month.
Sub-totals	Not to exceed \$566,124.00		
Facilities and Administrative Costs @ 8%	Not to exceed \$45,289.92		
Total	Not to exceed: \$611,413.92		

Table 1B. Sample Analysis for 60 Ambient Sites

Parameter	Cost/Test	# Sampling Sites	Frequency of Sampling	Lab Method	Total Cost
Temperature	\$7.00	60	12	SM 2550	\$5,040.00
pH	\$7.00	60	12	SM 4500 H	\$5,040.00
DO	\$7.00	60	12	SM 4500 O	\$5,040.00
Flow - manual*	\$17.50	4	12	N/A	\$840.00
Ammonia Nitrogen	\$14.50	60	12	LAC 10-107-06-1J	\$10,440.00
Nitrite + Nitrate Nitrogen (as N)	\$14.50	60	12	LAC 10-107-04-1J	\$10,440.00
Total Kjeldahl Nitrogen (as N)	\$36.50	60	12	LAC 10-107-06-2E	\$26,280.00
Dissolved Othophosphate (as P)	\$14.50	60	12	LAC 10-115-01-1A	\$10,440.00
Total Phosphate (as P)	\$14.50	60	12	LAC 10-115-01-1D	\$10,440.00
Total Dissolved Solids	\$14.50	60	12	SM 2540 C 18th	\$10,440.00
Total Volatile Suspended Solids	\$29.00	60	12	EPA 160.4	\$20,880.00
Total Suspended Solids	\$14.50	60	12	USGS I-3765-85	\$10,440.00
Turbidity	\$13.50	60	12	SM 2130 B	\$9,720.00
Hardness (as CaCO3)	\$14.50	60	12	SM 2340 C 18th	\$10,440.00
Chloride	\$14.50	60	12	EPA 300.0	\$10,440.00
Sulfate	\$14.50	60	12	EPA 300.0	\$10,440.00
CBOD5	\$36.50	60	12	SM 5210 B 5 C 18th	\$26,280.00
Escherichia coli	\$18.00	60	12	Colilert MPN	\$12,960.00
Chlorophyll a	\$43.50	60	12	EPA 445.0	\$31,320.00
SUB-TOTAL	\$346.00		Sub-total		\$237,360.00

Table 1C. Sample Analysis for BLM Support at 60 Ambient Sites

Parameter	Cost/Test	# Sampling Sites	Frequency of Sampling	Lab Method	Total Cost
Total Alkalinity	\$14.50	60	6	SM 2320 B 18th	\$5,220.00
Calcium	\$14.50	60	6	200.8	\$5,220.00
Magnesium	\$14.50	60	6	200.8	\$5,220.00
Potassium	\$14.50	60	6	200.8	\$5,220.00
Sodium	\$14.50	60	6	200.8	\$5,220.00
Dissolved Organic Carbon	\$36.50	60	6	9060	\$13,140.00
SUB-TOTAL	\$109.00		Sub-total		\$39,240.00

Table 1D. Sample Analysis for Dissolved and Total Metal Support at 60 Ambient Sites

Parameter	Cost/Test	# Sampling Sites	Frequency of Sampling	Lab Method	Total Cost
Aluminum, total	\$25.00	60	6	200.8	\$9,000.00
Arsenic, dissolved	\$27.00	60	6	200.8	\$9,720.00
Cadmium, dissolved	\$27.00	60	6	200.8	\$9,720.00
Chromium, dissolved	\$27.00	60	6	200.8	\$9,720.00
Copper, dissolved	\$27.00	60	6	200.8	\$9,720.00
Lead, dissolved	\$27.00	60	6	200.8	\$9,720.00
Nickel, dissolved	\$27.00	60	6	200.8	\$9,720.00
Selenium, dissolved	\$27.00	60	6	200.8	\$9,720.00
Silver, dissolved	\$27.00	60	6	200.8	\$9,720.00
Zinc, dissolved	\$27.00	60	6	200.8	\$9,720.00
SUB-TOTAL	\$268.00		Sub-total		\$96,480.00

Table 1E. Filter Blank Analysis for Dissolved Metal Support

Parameter	Cost/Test	# Sampling Sites	Frequency of Sampling	Lab Method	Total Cost
Arsenic	\$27.00	11	6	200.8	\$1,782.00
Cadmium	\$27.00	11	6	200.8	\$1,782.00
Chromium	\$27.00	11	6	200.8	\$1,782.00
Copper	\$27.00	11	6	200.8	\$1,782.00
Lead	\$27.00	11	6	200.8	\$1,782.00
Nickel	\$27.00	11	6	200.8	\$1,782.00
Selenium	\$27.00	11	6	200.8	\$1,782.00
Silver	\$27.00	11	6	200.8	\$1,782.00
Zinc	\$27.00	11	6	200.8	\$1,782.00
SUB-TOTAL	\$243.00		Sub-total		\$16,038.00

Table 1F Analysis Summary for Task 5, Subtask 1 Sites

Parameter	Cost/Test	# Sampling Sites	# Samples Submitted	Lab Method	Total Cost
Ammonia Nitrogen	\$14.50	2	17	LAC 10-107-06-1J	\$493.00
Nitrate + Nitrite - Nitrogen	\$14.50	2	17	LAC 10-107-04-1J	\$493.00
Total Kjeldahl Nitrogen	\$36.50	2	17	LAC 10-107-06-2E	\$1,241.00
Dissolved Orthophosphate (as P)	\$14.50	2	17	LAC 10-115-01-1A	\$493.00
Total Phosphate (as P)	\$14.50	2	17	LAC 10-115-01-1D	\$493.00
Total Suspended Solids	\$14.50	2	17	USGS I-3765-85	\$493.00
SUB-TOTAL	\$109.00		SUB-TOTAL		\$3,706.00

**Environmental Protection Commission
Iowa Department of Natural Resources**

ITEM

12

DECISION

TOPIC

Contract with the Iowa Department of Agriculture and Land Stewardship for the Protect Rathbun Lake Project

Recommendations:

Commission approval is requested for a two-year year-service contract with the Iowa Department of Agriculture and Land Stewardship (IDALS) of Des Moines, IA to administer the Protect Rathbun Lake Project, which is carried out by the Wayne Soil and Water Conservation District (SWCD). The contract will begin on July 1, 2017 and terminate on June 30, 2019. The total amount of this contract shall not exceed \$256,508.

Funding Source:

This contract will be funded through EPA Clean Water Act Section 319 funding.

Background:

The contract will continue to support an ongoing water quality and watershed improvement project, the Protect Rathbun Lake Project, administered by IDALS and carried out by the Wayne SWCD (see separate project summary and scope of work for more detailed information).

Purpose:

The parties propose to enter into this Contract for the purpose of retaining the Contractor to provide administrative services to implement the Protect Rathbun Lake Project.

Contractor Selection Process:

IDALS was chosen for this project because of its ongoing contractual affiliation with the Wayne SWCD, which carries out the Protect Rathbun Lake Project.

Contract History:

This contract is one of a series of contracts, dating back to 2004, to provide DNR support to the Wayne SWCD through IDALS to implement the Protect Rathbun Lake Project activities. This contract award was based on progress made by the project to implement the Rathbun Lake interim watershed management plan, which focuses on reducing sediment and phosphorus delivery to Rathbun Lake.

Steve Hopkins
Nonpoint Source Coordinator
Water Quality Bureau, Environmental Services Division
June 16, 2017

Attachment(s): Scope of Work from the Special Conditions for Contract

Protect Rathbun Lake Project Project Summary and Scope of Work

Project Name: Protect Rathbun Lake Project

Amount: \$256,508

Time Frame: July 1, 2017 – June 30, 2019 (2 years)

Description: New Funding for an Existing Watershed Project

Project Goal: To reduce sediment and phosphorus delivery to Rathbun Lake.

Project Background:

The Rathbun Land and Water Alliance has planned and coordinated efforts to protect land and water resources in the Rathbun Lake watershed since 1993. Alliance members include local soil and water conservation districts and county governments in the Rathbun Lake watershed as well as the Rathbun Regional Water Association. Protect Rathbun Lake Project staff has assisted nearly 600 landowners since 2004. Of these targeted landowners, more than 350, a participation rate of nearly 60%, agreed to apply BMPs. To date, landowners have invested more than \$4.4 million of their own funds to install BMPs for the priority and associate priority land that they own and/or farm.

Project Summary:

The overall goal of the Protect Rathbun Lake Project is to reduce sediment and phosphorus delivery to Rathbun Lake and the lake's tributaries. The Rathbun Land and Water Alliance's original objective in pursuit of this goal is the application of BMPs to address 30,000 acres of priority land in the Rathbun Lake watershed. Accomplishment of this objective will reduce annual sediment and phosphorus delivery to Rathbun Lake by an estimated 90,000 tons and 360,000 pounds. Protect Rathbun Lake Project activities are currently underway in 49 targeted sub-watersheds. Project activities to date have resulted in BMPs being applied for 25,000 total acres, including more than 12,000 acres of priority land (40% of the project's original objective), which will reduce the annual delivery of sediment and phosphorus to Rathbun Lake by 46,000 tons and 199,000 pounds respectively (51% and 55% of the project's original objectives).

This phase of the Protect Rathbun Lake Project will: 1) Assist landowners in the existing 49 targeted subwatersheds to apply BMPs for priority land, and 2) Expand targeted BMP project activities to two additional subwatersheds—the Sugar Creek and Upper Wolf #2 subwatersheds.

This contract will provide funding for project coordinators' salaries and for BMPs implemented through the Protect Rathbun Lake Project.

Project Objectives

The activities proposed in this project phase will result in the installation of BMPs for 650 acres. At least 325 acres will be priority land with the remaining acres considered associate priority land. These BMPs will reduce the annual delivery of sediment and phosphorus to Rathbun Lake by an estimated 975 tons of sediment and 3,900 pounds of phosphorus. This reduction in sediment and phosphorus loading will benefit water quality in Rathbun Lake by contributing 13% of the approximately two percent decrease in the average total suspended solids concentration, average total phosphorus concentration, and median trophic state index values for secchi depth and total phosphorus in the lake that is projected to be achieved as a result of BMPs applied during implementation of the interim plan.

In addition to the 49 targeted sub-watersheds in which the Protect Rathbun Lake Project is currently active, the two additional targeted sub-watersheds into which project activities will be expanded during this phase of the interim watershed management plan are:

- Sugar Creek (Lucas and Wayne Counties): GIS analysis and field data collection have identified 1,677 acres of priority land in this targeted sub-watershed. This priority land delivers an estimated 3,726 tons of sediment and 14,640 pounds of phosphorus per year to Rathbun Lake. Sixteen landowners own and/or operate farms with priority land in the sub-watershed. Twelve of these landowners are likely to install BMPs for this priority land.

- Upper Wolf Creek #2 (Wayne County): GIS analysis and field data collection have identified 1,486 acres of priority land in this targeted sub-watershed. This priority land delivers an estimated 3,269 tons of sediment and 14,161 pounds of phosphorus per year to Rathbun Lake. Twenty-four landowners own and/or operate farms with priority land in the sub-watershed. Eighteen of these landowners are likely to install BMPs for this priority land.

Methods Employed

The BMPs proposed in this project, and described in the table below, will achieve the reduction targets for annual sediment and phosphorus loading to Rathbun Lake of an estimated 975 tons and 3,900 pounds respectively for this phase of the Protect Rathbun Lake Interim Watershed Management Plan (WMP).

BMP Type	No. of Sites or Acres	Critical Area or WQ Issue Addressed	Load Reduction Estimate	WMP Page #
Terraces (NRCS S&S 600)	46,030 feet for 460 acres	Sediment and Phosphorus Delivery to Rathbun Lake from Priority Land	690 tons per year of sediment; 2,760 pounds per year of phosphorus	15
Grade Stabilization Structures (NRCS S&S 410)	2 structures for 50 acres	Sediment and Phosphorus Delivery to Rathbun Lake from Priority Land	75 tons per year of sediment; 300 pounds per year of phosphorus	15
Water and Sediment Control Basins (NRCS S&S 638)	30 basins for 120 acres	Sediment and Phosphorus Delivery to Rathbun Lake from Priority Land	180 tons per year of sediment; 720 pounds per year of phosphorus	15
Forage and Biomass Planting (NRCS S&S 512)	20 acres	Sediment and Phosphorus Delivery to Rathbun Lake from Priority Land	30 tons per year of sediment; 120 pounds per year of phosphorus	15
Improved Grazing Practices (NRCS S&S 528)	5 acres	Sediment and Phosphorus Delivery to Rathbun Lake from Priority Land	Supporting practice for Forage and Biomass Planting above	10

Lead Agency

Wayne Soil and Water Conservation District, as a member of the Rathbun Land and Water Alliance, is the lead agency for the activities described in this project.

Cooperating Agencies and Private Groups

Alliance members and partners, in addition to cooperating landowners, that will participate in this phase of the Protect Rathbun Lake Project include: Wayne and Lucas Soil and Water Conservation Districts (SWCD), Rathbun Regional Water Association (RRWA), Iowa Department of Natural Resources (DNR), IDALS Division of Soil Conservation and Water Quality (DSCWQ), USDA Natural Resources Conservation Service (NRCS), and US Army Corps of Engineers (ACOE). These cooperating entities will provide financial support and technical assistance to help ensure the successful completion of the activities proposed in this project.

In addition to the Alliance members and partners that will participate in the Protect Rathbun Lake Project activities described in this project summary, significant support for project related activities that have been completed or are underway in the Rathbun Lake watershed has been provided by: NRCS's National Water Quality Initiative, Agricultural Water Enhancement Program, Conservation Reserve Program, and Wetland Reserve Program; US Environmental Protection Agency's Targeted Watershed Program; ACOE's Section 1135 Aquatic Ecosystem Restoration Program; Iowa DNR's Lake Restoration Program; and the Iowa Watershed Improvement Review Board.

**Environmental Protection Commission
Iowa Department of Natural Resources**

ITEM

13

DECISION

TOPIC

Contract with Iowa State University Extension and Outreach for Manure Applicator Certification Training

Recommendations:

Commission approval is requested for a one year-service contract with Iowa State University Extension and Outreach of Ames, Iowa. The contract will begin on July 1, 2017 and terminate on July 1, 2018. The total amount of this contract shall not exceed \$214,001 for fiscal year 2018.

Funding Source:

This contract will be funded through education and certification fees collected from the Manure Applicator Certification Program.

Background:

HF 644 and HF 2494 require persons who apply, handle, transport and store manure to be properly certified as a Commercial Manure Service, Commercial Manure Service Representative or a Confinement Site Manure Applicator. In addition, HF 312 requires continuing instruction courses be available online. The MAC training materials will be available as part of the DNR's eLearning web site.

Purpose:

The parties propose to enter into this Contract for the purpose of retaining the Contractor to develop manure certification training and testing materials for commercial and confinement site manure applicators. Topics covered in the training materials will include: certification and manure management requirements of Iowa law and DNR rules; proper procedures for the storage, handling and land application of manure; the potential impacts of manure on surface and groundwater; the development of safety and emergency action plans and sources of additional technical and educational assistance.

Contractor Selection Process:

Iowa State University Extension and Outreach was chosen using the University selection process. Iowa State University Extension and Outreach was chosen for this project because Iowa law required partnership and they have the resources and knowledge to assist in training applicators.

William Ehm
Division Administrator
Environmental Services Division
May 30, 2017

Attachment(s): Special Conditions for Contract

**Environmental Protection Commission
Iowa Department of Natural Resources**

ITEM

14

DECISION

TOPIC

Contract Amendment with the University of Iowa for Mapping Review Services

Recommendations:

Commission approval is requested for an amendment to an existing service contract with University of Iowa of Iowa City, IA. The contract amendment will begin on July 20, 2017 and terminate on July 30, 2018. The amendment will include an additional \$40,000; the total amount of this contract shall not exceed \$80,000.00.

Funding Source:

This contract will be funded through Environment First funds (HB7A).

Background:

Last year, the GIS Section contracted with the University of Iowa to conduct quality reviews of Best Management Practices (BMP) GIS mapping. GIS Section staff has trained University of Iowa staff to perform quality assurance and control on BMP mapping data. The University of Iowa has provided high quality GIS staff services to the DNR in the past, and has been a good value for the DNR.

Purpose:

In order to continue the quality review process for the BMP mapping, the parties propose to extend this contract until December 2018 in order to review the HUCs.

BMP mapping review services:

This project will require reviewing the HUC12 geodatabases of BMPs mapped by ISU GIS facility for completeness and accuracy. Each geodatabase has six BMPs that are being mapped: 1) Terraces, 2) Water and Sediment Control Basins (WASCOBs), 3) Pond dams, 4) Grassed waterways, 5) Contour buffer strips and 6) Contour strip cropping. The review process will require comparing the mapped BMPs to LiDAR derived hillshade and slope grids as well as current and historical aerial imagery including CIR, NAIP and decadal images. The review will make sure all practices in that watershed are captured and that all practices captured are the correct practices. Any changes will be tracked by timestamp and initials of the reviewer in the appropriate attribute.

Kathryne Clark
GIS Section Supervisor
Land Quality Bureau, Environmental Services Division
May 25, 2017

**Environmental Protection Commission
Iowa Department of Natural Resources**

ITEM

15

DECISION

TOPIC

**Contract Amendment #2 with THE UNIVERSITY OF IOWA on behalf of THE STATE
HYGIENIC LABORATORY (SHL) for Laboratory Services provide to the Iowa DNR Land
Quality Bureau**

Recommendations:

Commission approval is requested for a contract amendment for the current [2] year-service contract with the State Hygienic Laboratory at the University of Iowa. The contract began on July 1, 2015 and terminates on June 30, 2017. The total amount of this contract amendment shall not exceed \$15,000.

Funding Source:

This contract amendment will be funded through State Hazardous Waste Fund Fees and EPA Federal grant funds.

Background:

Under various state and federal programs the Iowa DNR Land Quality Bureau collects environmental media samples collected by Department staff during site investigations (Waste Management Super Fund-WMSF). These samples include water, soils, soil-gas, solvents, solid wastes, and other environmental media. In order to positively identify and quantify the concentration of those chemicals it is necessary to have them analyzed by a qualified laboratory.

Purpose:

The parties entered into this Contract for the purpose of retaining the Contractor to provide assistance to Iowa DNR Land Quality Bureau, including analysis of samples from environmental media for a variety of chemistry parameters.

Contractor Selection Process:

The purpose of the original Contract is for the UI to provide laboratory services necessary to implement the provisions of this chapter, chapter 459, and chapter 459A. The DNR is allowed to contract with the University of Iowa pursuant to Iowa Code section 455B.103.

Contract History:

This amendment is for continuation of the same laboratory services as the in the proposed contact. The value of the original 2015-17 contract is (\$129,600). The length of the original contract was for two years (2015- 2017). All lab services provided in the original contract are the same in the proposed contract amendment. There no changes to the scope of work of the proposed contract.

Matt Culp, Senior Environmental Specialist
Land Quality Bureau in the Environmental Services Division
June 20, 2017

Attachment(s): Scope of Work from the Special Conditions for the Contract: (see below)

Obligation	Task Milestone Date
<p>Task 1: Land Quality Bureau Laboratory Support. SHL shall analyze and report environmental media samples collected by Department staff during site investigations (Waste Management Super Fund-WMSF).</p> <p>Description:</p> <ul style="list-style-type: none"> ○ SHL shall analyze samples of water, soils, soil-gas, solvents, solid wastes, and other environmental media collected by the Department during site investigations. The samples shall be tested for parameters as specified by the collector in consultation with laboratory. ○ Samples submitted for analysis shall be coded WMSF. All samples submitted to SHL by Department or SHL staff shall be coded to a specific monitoring activity and shall include a detailed list of the analyses to be performed unless other arrangements have been made before shipment of the sample to SHL. SHL log-in procedures shall accommodate this code. A monthly report of the logged-in samples shall be provided in a mutually agreeable format. Any deviation from normal sampling procedures, including but not limited to a change in sampling location or omission of samples for analysis, shall be identified to DNR in writing prior to transmittal of analytical results. Analytical test results determined at “less than” quantitation limit shall be reported as such, and or flagged as appropriate. Test results for samples analyzed after recommended “holding time” shall be qualified as appropriate. 	<p>Ongoing for the term of the contract</p> <p>A sample log-in report shall be attached to each monthly invoice. The format for this report shall be agreed upon by the parties. The sample log-in report shall be submitted to DNR by the last date of each month during the term of this contract.</p>
<p>Task 2: Submission of Information and Manuals. SHL shall submit information and manuals to DNR upon request.</p> <p>Description:</p> <ul style="list-style-type: none"> ○ SHL shall submit information on data quality requirements and assessments (such as detection limit, quantitation limit, estimated accuracy, accuracy protocol, estimated precision, and precision protocol) to DNR for any sample upon request. Information on the analytical reference method, sample preservation and holding time also shall be provided if requested. ○ SHL shall provide copies of revised Methods Manuals and Standard Operating Procedure Manuals to the Department upon request. Copies of manuals and procedures shall be available from the laboratory. 	<p>Ongoing for the term of the contract</p>
<p>Task 3: Data Transfer</p> <p>Description: SHL shall make the data generated pursuant to this Contract available to DNR electronically through the State Hygienic Laboratory OpenELIS database web portal. Data shall be available for download by DNR staff in a mutually agreeable format. The available sample information shall include the STORET station identification number, which will be provided by DNR for all station locations. Data shall be retrievable via the web portal by DNR staff. Analytical reports may be retrieved electronically by DNR staff having the appropriate authorization. SHL shall assist DNR staff in obtaining appropriate authorization when requested. When accessing electronic data, the following information is required:</p> <ul style="list-style-type: none"> ● SHL OpenELIS/Telcor Organization ID number: 547 ● SHL Project Code: WMSF 	<p>Analytical chemistry data shall be made available to DNR staff no later than 15 calendar days following the end of the month of collection. If the contractor determines that extra time is needed to complete required analyses, then a written notification shall be made to the DNR submitter or contract manager. The notification shall include the reason for the delay and the specific analytical chemistry data requiring delayed reporting. The notification shall occur as soon as possible after the contractor has determined the need for a reporting delay.</p>

**Environmental Protection Commission
Iowa Department of Natural Resources**

ITEM

16

DECISION

TOPIC

Contract with THE UNIVERSITY OF IOWA on behalf of THE STATE HYGIENIC LABORATORY (SHL) for Laboratory Services provide to the Land Quality Bureau of -IDNR

Recommendations:

Commission approval is requested for a [2] year-service contract with the State Hygienic Laboratory at the University of Iowa. The contract will begin on July 1, 2017 and terminate on June 30, 2019. The total amount of this contract shall not exceed \$129,600.

Funding Source:

This contract will be funded through State Hazardous Waste Fund Fees and EPA Federal grant funds.

Background:

Under various state and federal programs the **Land Quality Bureau** - IDNR collects environmental media samples collected by Department staff during contaminated sites investigations (Waste Management Super Fund-WMSF). These samples include water, soils, soil-gas, solvents, solid wastes, and other environmental media. In order to positively identify and quantify the concentration of those chemicals it is necessary to have them analyzed by a qualified laboratory.

Purpose:

The parties have entered into this Contract for the purpose of retaining the Contractor to provide assistance to DNR Land Quality Bureau, including analysis of samples from environmental media for a variety of chemistry parameters.

Contractor Selection Process:

The purpose of this Contract is for the UI to provide laboratory services necessary to implement the provisions of this chapter, chapter 459, and chapter 459A. The DNR is allowed to contract with the University of Iowa pursuant to Iowa Code section 455B.103.

Contract History:

This contract is being repeated. The previous contract was for the same laboratory services as the in the proposed contract. The value of the original 2015-17 contract (\$129,600) is the same as the proposed contract. The length of the original contract was for two years (2017- 2019). All lab services provided in the original contract are the same in the proposed contract. There no changes to the scope of work or budget of the proposed contract.

Presenter's name and Presenter's Title: **Matt Culp, Senior Environmental Specialist**
 Presenter's Bureau and Division: **Land Quality Bureau in the Environmental Services Division**
 Commission Date: **June 20, 2017**

STATEMENT OF WORK

Obligation	Task Milestone Date
<p>Task 1: Land Quality Bureau Laboratory Support. SHL shall analyze and report results for environmental media samples collected by Department staff during Land Quality Bureau sites investigations (Waste Management Super Fund-WMSF). Description:</p> <ul style="list-style-type: none"> ○ SHL shall analyze samples of water, soils, soil-gas, solvents, solid wastes, and other environmental media collected by the Department during site investigations. The samples shall be tested for parameters as specified by the collector in consultation with laboratory. ○ Samples submitted for analysis shall be coded WMSF. All samples submitted to SHL by Department or SHL staff shall be coded to a specific monitoring activity and shall include a detailed list of the analyses to be performed unless other arrangements have been made before shipment of the sample to SHL. SHL log-in procedures shall accommodate this code. A monthly report of the logged-in samples shall be provided in a mutually agreeable format. Any deviation from normal sampling procedures, including but not limited to a change in sampling location or omission of samples for analysis, shall be identified to DNR in writing prior to transmittal of analytical results. Analytical test results determined at "less than" quantitation limit shall be reported as such, and or flagged as appropriate. Test results for samples analyzed after recommended "holding time" shall be qualified as appropriate. 	<p>Ongoing for the term of the contract</p> <p>A sample log-in report shall be attached to each monthly invoice. The format for this report shall be agreed upon by the parties. The sample log-in report shall be submitted to DNR by the last date of each month during the term of this contract.</p>
<p>Task 2: Submission of Information and Manuals. SHL shall submit information and manuals to DNR upon request. Description:</p> <ul style="list-style-type: none"> ○ SHL shall submit information on data quality requirements and assessments (such as detection limit, quantitation limit, estimated accuracy, accuracy protocol, estimated precision, and precision protocol) to DNR for any sample upon request. Information on the analytical reference method, sample preservation and holding time also shall be provided if requested. ○ SHL shall provide copies of revised Methods Manuals and Standard Operating Procedure Manuals to the Department upon request. Copies of manuals and procedures shall be available from the laboratory. 	<p>Ongoing for the term of the contract</p>
<p>Task 3: Data Transfer Description: SHL shall make the data generated pursuant to this Contract available to DNR electronically through the State Hygienic Laboratory Open ELIS database web portal. Data shall be available for download by DNR staff in a mutually agreeable format. The available sample information shall include the STORET station identification number, which will be provided by DNR for all station locations. Data shall be retrievable via the web portal by DNR staff. Analytical reports may be retrieved electronically by DNR staff having the appropriate authorization. SHL shall assist DNR staff in obtaining appropriate authorization when requested. When accessing electronic data, the following information is required:</p> <ul style="list-style-type: none"> ● SHL Open ELIS/Telcor Organization ID number 547 ● SHL Project Code: WMSF 	<p>Analytical chemistry data shall be made available to DNR staff no later than 15 calendar days following the end of the month of collection. If the contractor determines that extra time is needed to complete required analyses, then a written notification shall be made to the DNR submitter or contract manager. The notification shall include the reason for the delay and the specific analytical chemistry data requiring delayed reporting. The notification shall occur as soon as possible after the contractor has determined the need for a reporting delay.</p>
<p>Add additional Tasks as needed.</p>	

**Iowa Department of Natural Resources
Environmental Protection Commission**

ITEM

17

Decision

TOPIC

Notice of Intended Action – Chapter 61 – Water Quality Standards (Updates to Wasteload Allocation Procedure and *E. Coli* criteria)

There are two primary purposes of this proposed rule. The first is to revise the rule referenced document “Supporting Document for Iowa Water Quality Management Plans.” This document was last updated in 2009. It establishes the technical methodologies the DNR uses to develop wastewater permit limits based on water quality criteria. The proposed revision will provide more flexibility for facilities seeking to use alternative permitting options. For example, the revision will allow the use of monthly stream low flows in addition to annual stream low flows, alternative methodologies for deriving site-specific permit limits, and fewer sampling requirements for site-specific data collection. These changes will result in cost savings for permitted facilities. The proposed revision will also clarify and update the procedures the DNR uses to calculate permit limits based on water quality criteria and will ensure those procedures make use of the most recent scientific data. The proposed revision also changes the title of the document to more clearly reflect its contents. The revised document will be titled “Iowa Wasteload Allocation (WLA) Procedure.” The current and revised versions of the document are available on the DNR’s website at www.iowadnr.gov/Environmental-Protection/Water-Quality/Wasteload-Allocations.

The second purpose of this proposed rule is to update the water quality criteria for *E. coli* by eliminating the existing single sample maximum value. The DNR has determined that the single sample maximum value is overly stringent and is not an appropriate tool for water quality assessment and permitting purposes. The geometric mean *E. Coli* value will be retained as it is the more appropriate measure and is protective of recreational activity in Iowa’s waters. This change will result in fewer water bodies being listed as impaired by the overly stringent single sample maximum *E. coli* value.

Jon Tack, Chief
Water Quality Bureau
Environmental Services Division

ENVIRONMENTAL PROTECTION COMMISSION[567]

Notice of Intended Action

Pursuant to the authority of Iowa Code sections 455B.105(11) “a” and 455B.173(2) and (3), the Environmental Protection Commission (Commission) hereby gives Notice of Intended Action to amend 567 Iowa Administrative Code chapter 61, “Water Quality Standards,” and chapter 62 “Effluent and Pretreatment Standards: Other Effluent Limitations or Prohibitions”.

The purpose of the proposed amendments is to:

1. Revise the bacteria water quality criteria table at 567 IAC 61.3(3) “a”(2). The revision will eliminate the single sample maximum values of 235 organisms per 100 milliliters of water for Recreational Use Classes A1 and A3 and 2,880 organisms per 100 milliliters of water for Recreational Use Class A2. The Commission has determined that the single sample maximum value is overly stringent and is not an appropriate tool for water quality assessment and permitting purposes. The geometric mean *E. coli* criterion is a more appropriate measure and will be retained.

2. Update the rule referenced document “Supporting Document for Iowa Water Quality Management Plans, Chapter IV, July 1976, as revised on November 11, 2009.” The revision of this document will include a title change to “Iowa Wasteload Allocation (WLA) Procedure” to more clearly reflect the contents of the document. A wasteload allocation (WLA) is the portion of a water body’s assimilative capacity that is allocated to an existing or future point source discharge. This document establishes the technical methodologies the Department of Natural Resources (Department) uses to develop WLAs and water quality-based effluent limits for point source dischargers. The revision will make the document more understandable and better

describe the procedures used in WLA calculations. The update will also provide greater flexibility to facilities seeking alternative permitting options.

The major elements of the Iowa WLA Procedure document revision are as follows:

a. Update the Stream Low Flow Values for United States Geological Survey (USGS) gaged sites and ungaged sites based on the USGS low flow study report “Methods for Estimating Selected Low-Flow Frequency Statistics and Harmonic Mean Flows for Streams in Iowa,” by David A. Eash and Kimberlee K. Barnes, published in 2012 and revised in 2013. This change will incorporate the most up-to-date stream critical low flows published by USGS to better reflect actual stream low flows;

b. Incorporate statewide default background chemical concentrations using the most up-to-date monitoring data available;

c. Incorporate statewide default effluent chemical concentrations for different types of wastewater treatment plants using the most up-to-date effluent monitoring data available;

d. Replace the total residual chlorine default decay value in the mixing zone with site-specific decay measurements;

e. Incorporate the current implementation procedures for the chloride and sulfate criteria that were adopted in 2009;

f. Revise the *E. coli* WLA procedures for both continuous and non-continuous discharges to reflect the *E. coli* criteria changes at 567 IAC 61.3(3) “a”(2), as described above;

g. Revise the *E. coli* decay rate coefficient to be consistent with other Department programs;

h. Revise the temperature criteria implementation procedure to incorporate all elements of the temperature criteria in 567 IAC chapter 61 for different designated uses. The proposed revision to the temperature implementation procedure provides flexibility for facilities seeking alternative permitting options;

i. Modify the WLA procedure for pH so that pH criteria must be met at the boundary of the mixing zone instead of the boundary of the zone of initial dilution. This will result in increased dilution for pH WLA calculations;

j. Clarify that the fathead minnow is to be used as the most sensitive representative species for establishing acute toxicity effluent limits for general use waterbodies;

k. Clarify the current mixing zone procedures and the requirements for mixing zone and diffuser studies;

l. Incorporate a Site-Specific Data Collection Procedure in order to standardize the site-specific data collection process. The proposed revision will have fewer sampling requirements and will result in cost savings for point source discharge facilities seeking site-specific permit limits;

m. Revise the Water Quality Modeling section to replace previous models with commonly used and modernized QUALIK and Modified Streeter-Phelps models. It will also update decay rates and reaeration rates to reflect the latest scientific data;

n. Add a reference to the antidegradation implementation procedure document;

o. Add a new section on Alternative Site-Specific Methodology for Water Quality Based Limits that provides point source discharge facilities with the flexibility to develop site specific NPDES permit limits.

Other minor revisions to the document include improvements in the estimation of ammonia nitrogen decay calculations in discharge pipes and general use segments, clarification of the procedure for determining discharge flows used in WLAs, and clarification of various sections to make the document more understandable. The proposed “Iowa Wasteload Allocation (WLA) Procedure” document is available at www.iowadnr.gov/Environmental-Protection/Water-Quality/Wasteload-Allocations.

The proposed amendments also update references to the Department’s website.

Any person may submit written suggestions or comments on the proposed amendments through September 8, 2017. Such written material should be submitted to Connie Dou, Water Quality Monitoring and Assessment Section, Iowa Department of Natural Resources, 502 East 9th Street, Des Moines, Iowa 50319-0034, fax (515)725-8202; or e-mailed to Connie.Dou@dnr.iowa.gov. Persons who have questions may contact Connie Dou by e-mail or by telephone at (515)725-8400.

Persons are invited to present oral or written comments at a series of public hearings, which will be held throughout the state as follows:

Date	Time	Location
September 5, 2017	4:00 pm	State Bank Room Washington Public Library 115 West Washington St. Washington, IA

September 6, 2017	4:00 pm	Meeting Room B Urbandale Public Library 3520 86 th St. Urbandale, IA
September 7, 2017	4:00 pm	Harlan Community Library 718 Court St. Harlan, IA

Persons attending a hearing will be asked to give their names and addresses for the record and to confine their remarks to the content of the proposed amendments.

Any person who intends to attend a public hearing and has special requirements, such as those related to mobility or hearing impairments, should contact the Department to advise of any specific needs.

After analysis and review of this rule making, these amendments are expected to have a positive impact on jobs. The amendments are projected to result in a total cost savings for cities, industries, and semi-public entities ranging between \$26 million and \$58 million. This total savings is expected to be achieved by approximately 94 facilities across the state. These cost savings will likely lead to further investment in production and job growth.

The proposed amendments are intended to implement Iowa Code sections 455B.105(11) “a” and 455B.173(2) and (3).

The following amendments are proposed.

ITEM 1. Amend paragraph **61.2(4) “a”** as follows:

a. Due to extreme variations in wastewater and receiving water characteristics, spatial dimensions of mixing zones shall be defined on a site-specific basis. These rules are not intended to define each individual mixing zone, but will set maximum limits which will satisfy most biological, chemical, physical and radiological considerations in defining a particular mixing zone. Additional details are noted in the ~~“Supporting Document for Iowa Water Quality Management Plans,” Chapter IV, July 1976, as revised on November 11, 2009,~~ “Iowa Wasteload Allocation (WLA) Procedure,” [effective date], for considering unusual site-specific features such as side channels and sand bars which may influence a mixing zone. Applications for operation permits under 567—subrule 64.3(1) may be required to provide specific information related to the mixing zone characteristics below their outfall so that mixing zone boundaries can be determined.

ITEM 2. Amend paragraph **61.2(4) “b”** introductory paragraph, as follows:

b. For parameters included in Table 1 only (which does not include ammonia nitrogen), the dimensions of the mixing zone and the zone of initial dilution will be calculated using a mathematical model presented in the ~~“Supporting Document for Iowa Water Quality Management Plans,” Chapter IV, July 1976, as revised on November 11, 2009,~~ “Iowa Wasteload Allocation (WLA) Procedure,” [effective date], or from instream studies of the mixing characteristics during low flow. In addition, the most restrictive of the following factors will be met:

ITEM 3. Amend subparagraph **61.2(4) “d”(4)**, as follows:

(4) A discharger to interior streams and rivers, the Big Sioux and Des Moines Rivers, and the Mississippi or Missouri Rivers may provide to the department, for consideration, instream data which technically supports the allowance of an increased percentage of the stream flow contained in the mixing zone due to rapid and complete mixing. Any allowed increase in mixing zone flow would still be governed by the mixing zone length restrictions. The submission of data should follow the guidance provided in the ~~“Supporting Document for Iowa Water Quality Management Plans,” Chapter IV, July 1976, as revised on November 11, 2009~~ “Iowa Wasteload Allocation (WLA) Procedure,” [effective date].

ITEM 4. Amend paragraph **61.2(4) “e”** introductory paragraph, as follows:

e. For ammonia criteria noted in Table 3, the dimensions of the mixing zone and the zone of initial dilution will be calculated using a mathematical model presented in the ~~“Supporting Document for Iowa Water Quality Management Plans,” Chapter IV, July 1976, as revised on November 11, 2009,~~ “Iowa Wasteload Allocation (WLA) Procedure,” [effective date], or from instream studies of the mixing characteristics during low flow. In addition, the most restrictive of the following factors will be met:

ITEM 5. Amend paragraph **61.2(4) “f”** as follows:

f. For ammonia criteria noted in Table 3, the stream flow used in determining wasteload allocations to ensure compliance with the chronic criteria of Table 3 will be that value contained

at the boundary of the allowed mixing zone. This stream flow may not exceed the percentages of the design low stream flow noted in 61.2(4) “e” (1) as measured at the point of discharge.

The pH and temperature values at the boundary of the mixing zone used to select the chronic ammonia criteria of Table 3 will be from one of the following sources. The source of the pH and temperature data will follow the sequence listed below, if applicable data exists from the source.

(1) Specific pH and temperature data provided by the applicant gathered at their mixing zone boundary. Procedures for obtaining this data are noted in the ~~“Supporting Document for Iowa Water Quality Management Plans,” Chapter IV, July 1976, as revised on November 11, 2009~~ “Iowa Wasteload Allocation (WLA) Procedure,” [effective date].

(2) Regional background pH and temperature data provided by the applicant gathered along the receiving stream and representative of the background conditions at the outfall. Procedures for obtaining this data are noted in the ~~“Supporting Document for Iowa Water Quality Management Plans,” Chapter IV, July 1976, as revised on November 11, 2009~~ “Iowa Wasteload Allocation (WLA) Procedure,” [effective date].

(3) The statewide ~~average median~~ background values as determined by the department ~~presented in Table IV-2 of the “Supporting Document for Iowa Water Quality Management Plans,” Chapter IV, July 1976, as revised on November 11, 2009.~~

The stream flow in the zone of initial dilution used in determining effluent limits to ensure compliance with the acute criteria of Table 3 may not exceed 5 percent of the calculated flow associated with the mixing zone for facilities with a dilution ratio of less than or equal to 2:1, and not exceed 10 percent of the calculated flow associated with the mixing zone for facilities with a dilution ratio of greater than 2:1. The pH and temperature values at the boundary of the zone of

initial dilution used to select the acute ammonia criteria of Table 3 will be from one of the following sources and follow the sequence listed below, if applicable data exists from the source.

1. Specific effluent pH and temperature data if the dilution ratio is less than or equal to 2:1.
2. If the dilution ratio is greater than 2:1, the logarithmic average pH of the effluent and the regional or statewide pH provided in 61.2(4) “f” will be used. In addition, the flow proportioned average temperature of the effluent and the regional or statewide temperature provided in 61.2(4) “f” will be used. The procedures for calculating these data are noted in the ~~“Supporting Document for Iowa Water Quality Management Plans,” Chapter IV, July 1976, as revised on November 11, 2009~~ “Iowa Wasteload Allocation (WLA) Procedure,” [effective date].

ITEM 6. Amend subparagraph **61.2(4) “g”(4)**, as follows:

(4) A discharger to interior streams and rivers, the Big Sioux and Des Moines Rivers, and the Mississippi and Missouri Rivers may provide to the department, for consideration, instream data which technically supports the allowance of an increased percentage of the stream flow contained in the mixing zone due to rapid and complete mixing. Any allowed increase in mixing zone flow would still be governed by the mixing zone length restrictions. The submission of data should follow the guidance provided in the ~~“Supporting Document for Iowa Water Quality Management Plans,” Chapter IV, July 1976, as revised on November 11, 2009~~ “Iowa Wasteload Allocation (WLA) Procedure,” [effective date].

ITEM 7. Amend paragraph **61.3(2) “g”** as follows:

g. Cations and anions guideline values to protect livestock watering may be found in the ~~“Supporting Document for Iowa Water Quality Management Plans,” Chapter IV, July 1976, as revised on November 11, 2009~~ “Iowa Wasteload Allocation (WLA) Procedure,” [effective date].

ITEM 8. Amend paragraph **61.3(2) “h”** as follows:

h. The Escherichia coli (E. coli) content of water which enters a sinkhole or losing stream segment, regardless of the water body's designated use, shall not exceed a Geometric Mean value of 126 organisms/100 ml ~~or a sample maximum value of 235 organisms/100 ml.~~ No new wastewater discharges will be allowed on watercourses which directly or indirectly enter sinkholes or losing stream segments.

ITEM 9. Amend subparagraph **61.3(3) “a”(1)** as follows:

61.3(3) *Specific water quality criteria.*

a. *Class “A” waters.* Waters which are designated as Class “A1,” “A2,” or “A3” in subrule 61.3(5) are to be protected for primary contact, secondary contact, and children’s recreational uses. The general criteria of subrule 61.3(2) and the following specific criteria apply to all Class “A” waters.

(1) The Escherichia coli (E. coli) content shall not exceed the levels noted in the Bacteria Criteria Table when the Class “A1,” “A2,” or “A3” uses can reasonably be expected to occur.

Bacteria Criteria Table (organisms/100 ml of water)

Use or Category	Geometric Mean	Sample Maximum
Class A1		
3/15 – 11/15	126	235
11/16 – 3/14	Does not apply	Does not apply
Class A2 (Only)		
3/15 – 11/15	630	2880
11/16 – 3/14	Does not apply	Does not apply
[Class A2 and B(CW)] or OIW or ONRW		
Year-Round	630	2880
Class A3		
3/15 – 11/15	126	235
11/16 – 3/14	Does not apply	Does not apply
Class A1 - Primary Contact Recreational Use		
Class A2 - Secondary Contact Recreational Use		
Class A3 – Children’s Recreational Use		

When a water body is designated for more than one of the recreational uses, the most stringent criteria for the appropriate season shall apply.

ITEM 10. Amend subrule **61.3(5)** as follows:

61.3(5) Surface water classification. The department hereby incorporates by reference “Surface Water Classification,” effective June 17, 2015. This document may be obtained on the department’s Web site at <http://www.iowadnr.gov/InsideDNR/RegulatoryWater/WaterQualityStandards/Rules.aspx> <http://www.iowadnr.gov>.

ITEM 11. Amend subrule **61.3(6)** as follows:

61.3(6) Cold water use designation assessment protocol. The department hereby incorporates by reference “Cold Water Use Designation Assessment Protocol,” effective December 15, 2004. This document may be obtained on the department’s Web site at <http://www.iowadnr.com/water/standards/index.html> <http://www.iowadnr.gov>.

ITEM 12. Amend subrule **61.3(7)** as follows:

61.3(7) *Warm water stream use assessment and attainability analysis protocol.* The department hereby incorporates by reference “Warm Water Stream Use Assessment and Attainability Analysis Protocol,” effective March 22, 2006. This document may be obtained on the department’s Web site at <http://www.iowadnr.com/water/standards/index.html> <http://www.iowadnr.gov>.

ITEM 13. Adopt the following **new** subrule **61.3(9)** as follows:

61.3(9) *Iowa Wasteload Allocation (WLA) Procedure.* The department hereby incorporates by reference “Iowa Wasteload Allocation (WLA) Procedure,” [effective date]. This document may be obtained on the department’s Web site at <http://www.iowadnr.gov>.

ITEM 14. Amend subrule **62.8(2)** as follows:

62.8(2) Effluent limitations necessary to meet water quality standards. No effluent, alone or in combination with the effluent of other sources, shall cause a violation of any applicable water quality standard. When it is found that a discharge that would comply with applicable effluent standards in 567—62.3(455B), 567—62.4(455B) or 567—62.5(455B) or effluent limitations in 567—62.6(455B) would cause a violation of water quality standards, the discharge will be required to meet the water quality-based effluent limits (WQBELs) necessary to achieve the applicable water quality standards as established in 567—Chapter 61. Any such effluent limit shall be derived from the calculated waste load allocation, as described in ~~“Supporting Document for Iowa Water Quality Management Plans,” Chapter IV, July 1976, as revised on November 11,~~

~~2009~~ “Iowa Wasteload Allocation (WLA) Procedure,” [effective date] or the waste load allocation as required by a total maximum daily load, whichever is more stringent. The translation of waste load allocations to WQBELs shall use Iowa permit derivation methods, as described in the ~~“Supporting Document for Iowa Water Quality Management Plans,” Chapter IV, July 1976, as revised on November 11, 2009,~~ “Iowa Wasteload Allocation (WLA) Procedure,” [effective date]. ~~except that the daily sample maximum criteria for *E. coli* set forth in Part E of the “Supporting Document for Iowa Water Quality Management Plans” shall not be used as an end of pipe permit limitation.~~

Date

Chuck Gipp, Director

**Environmental Protection Commission
Iowa Department of Natural Resources**

ITEM

18

DECISION

2016 Diesel Emissions Reduction Grant Program – Round 2 Recommendations

The Department requests that the Commission approve entering into two additional sub-grant awards for the 2016 Diesel Emissions Reduction grant program. A total of **\$69,000.00** in funds will be awarded to the following organizations to complete emissions reduction projects on qualified diesel vehicles during the timeframe of June 20, 2017, through March 20, 2018:

Northwood- Kensett Community School District: \$24,000

Northwood, IA

Recipient Match (estimated): \$72,000

Total Project Cost: \$96,000

Northwood-Kensett Community School District will replace a 2001 International Type C school bus with a new propane fueled school bus.

St. Ansgar Community School District: \$45,000

St. Ansgar, IA

Recipient Match (estimated): \$135,000

Total Project Cost: \$180,000

St. Ansgar Community School District will replace one 2000 International school bus and one 2002 International school bus with new school buses that meet EPA's current diesel emissions standards.

Funding Source

Funding in the amount of \$200,725 is provided by the U.S. Environmental Protection Agency (EPA)'s Diesel Emissions Reduction Act (DERA) - Award DS-97755301-0. A total of \$180,197 in funds will be awarded to selected sub-grantees to complete eligible diesel emissions reduction projects. A total of \$61,197 was awarded in February 2017 for two eligible projects. The Department is in the process of obtaining proposals that the remaining amount of grant funds (\$119,000) can be used to fund. Funds from the grant in the amount of \$20,528 will be used for Department personnel costs associated with the administrative management of the grant program and for a contract with Linn County Public Health – Air and Water Quality Branch (LCPH-AWQB) for administrative tasks associated with the award of grant funds to organizations in Linn County. (Note: A contract for the sub-grant award to LCPH-AWQB was executed in October 2016.)

The statutory authority for the Department to enter into this sub-grant award is 455B.103(5).

Background

This is the eighth DERA state allocation grant that the Department has received from EPA to reduce diesel emissions from mobile sources in Iowa. Partnering with organizations to voluntarily reduce mobile diesel engine emissions will be beneficial in reducing carbon monoxide (CO), fine particulate matter (PM2.5), nitrogen oxides (NO_x), hydrocarbons (HC), and other air pollution emissions.

The Department created a competitive DERA grant program to help fund voluntary diesel exhaust reduction projects. A program overview & requirements document was developed to specify who was eligible to apply, the types of projects that were eligible for funding, and the process for applying for funding. The DERA grants website (www.iowadnr.gov/dera) was updated to include a one-stop location for access to application forms, guidance, and updates as needed.

Eligible vehicles included:

- School Buses (Type A, B, C and D that meet the NHTSA definition of a school bus);
- Medium-duty or Heavy-duty Transit Buses; and
- Medium-duty or Heavy-duty Trucks (defined as Class 5 through Class 8).

Eligible projects and levels of funding included: Exhaust control devices – 100% funded; Verified idle reduction technologies – 100% funded (if combined with a new eligible verified exhaust control); Clean alternative fuel conversions – 40% funded; Engine upgrades/repowers – 40% funded; and Vehicle/Equipment replacement – 25% funded.

Contractor Selection

Round 2 invitations to submit projects for DERA grant funding were sent April 13, 2017 to municipalities, school districts, and public transit agencies. Proposals were due May 12, 2017. The Department received two (2) proposals meeting all qualification requirements, requesting funds totaling \$69,000. A third proposal was received after the deadline and was incomplete. This proposal was disqualified.

When completed, these projects have the potential to cumulatively reduce NO_x, PM_{2.5}, HC, and CO emissions from diesel exhaust by over 90%.

To track progress on the 2016 DERA grant projects visit www.iowadnr.gov/dera.

Jim McGraw
Environmental Program Supervisor
Air Quality Bureau – Environmental Services Division
May 30, 2017

**Environmental Protection Commission
Iowa Department of Natural Resources**

ITEM

19

DECISION

Contract with Windsor Solutions, Inc. for State & Local Emissions Inventory System (SLEIS) license agreement

Recommendation:

Commission approval is requested for a one year Information Technology license agreement with Windsor Solutions, Inc. The contract is anticipated to begin on June 20, 2017 and terminate on June 19, 2018. The total amount of this contract shall not exceed \$40,000.00.

Funding Source:

Funding for this contract is from federal funds through the Performance Partnership Grant (PPG), cost center 7220.

Background:

SLEIS was developed under an EPA Challenge Grant by Windsor Solutions and a consortium of six state and municipal air quality programs. The DNR applied for and received a federal fiscal year 2013 Exchange Network Grant to implement the State and Local Emission Inventory System (SLEIS). DNR contracted with Windsor Solutions beginning in 2014 to install, configure, support, and license SLEIS. A list of SLEIS enhancements was created based on DNR and industry testing and prioritized based on their ability to meet DNR and stakeholder needs with respect to reporting emissions data. These enhancements were placed into production in SLEIS in October 2016. The enhancement work benefited industry and their consultants, other SLEIS-using agencies, DNR staff, and EPA by allowing for: 1) improved quality of required data elements; 2) a reduction in data entry time for stakeholders and DNR staff; 3) facilitation of easier searching of air pollutants and emissions data; and 4) enhancement of readability of emissions reports.

The license agreement will allow DNR to be eligible to receive updated versions of the SLEIS database as well as obtain assistance in troubleshooting and resolving technical questions. An emissions inventory is a listing, by source, of the amounts of pollutants actually emitted over a period of time. The emissions inventory data collected by DNR is used to identify emission levels and trends, track Iowa's progress towards meeting national air quality standards, and develop control and maintenance strategies required by the federal Clean Air Act. The support obtained by entering this license agreement will facilitate a successful transmission of emissions data to EPA's Emissions Inventory System as required by EPA's Air Emissions Reporting Requirement (AERR). The license agreement includes sixty hours of labor support. DNR plans on using the support hours to increase the efficiency of external (stakeholders) and internal (DNR) users' abilities to data enter and retrieve emissions information and enhance graphics.

Purpose:

The purpose of this contract is to obtain a license agreement and one year support of the SLEIS database.

Contractor Selection:

Windsor Solutions developed SLEIS, and therefore owns the SLEIS code with the consortium states. The DNR must enter into a license agreement with Windsor in order to receive updates to the SLEIS software and maintain and troubleshoot the system. Windsor was previously contracted to install, configure, support, and license SLEIS for a one year period.

Scope of Work Requirements:

1. Windsor will grant the DNR a license to use SLEIS for a one year term.
2. Windsor will provide sixty (60) hours of labor support during the one year term of the contract to assist DNR with the use of the system and resolve technical questions.
3. Windsor will provide periodic updates to DNR's licensed software implementation as updates become available. DNR may accept updates at their discretion. Windsor may require the software to be updated in order to continue to provide support.

Nick Page
Environmental Specialist Senior
Air Quality Bureau – Environmental Services Division
May 30, 2017

**Environmental Protection Commission
Iowa Department of Natural Resources**

ITEM

20

DECISION

TOPIC

2018 Contract with Linn County Air Quality Division: Air Pollution Control in Linn County

Recommendations:

Commission approval is requested for a one year-service contract with the county government of Linn County; Cedar Rapids, Iowa. The contract will begin on July 1, 2017, and terminate on June 30, 2018. The total amount of this contract shall not exceed \$805,751. This contract is an Iowa Code Chapter 28E contract.

Funding Source:

The statutory authority for the DNR to enter into this contract is Iowa Code § 455B.145. This contract will be funded by cost reimbursable payments from Title V application fees (not to exceed \$118,295), Title V emissions fees (not to exceed \$505,524), PSD application fees (not to exceed \$38,614); Clean Air Act Amendments (CAAA) §105 federal grant dollars (not to exceed \$125,818), and CAAA §103 federal grant dollars (not to exceed \$17,500). Linn County has a funding commitment of \$246,500.

Background:

Under Iowa Code § 455B.134 (11) and Iowa Code § 455B.144 local political subdivisions are able to address air quality problems in their jurisdictions and can establish their own rules. Linn County had a local program, including ordinances and enforcement, in place prior to the DNR's delegation from EPA for an air program.

As specified in Iowa Code § 455B.145 and 567 Iowa Administrative Code (IAC) Chapter 27, the Linn County Air Quality Division meets the conditions necessary to retain a local program. As established under the requirements of this contract, the Linn County Air Quality Division is responsible for the ongoing implementation of an air program within their county.

Purpose:

The parties propose to enter into this contract to specify the extent and manner of cooperation between the two agencies in conducting programs for the abatement, control, and prevention of air pollution within Linn County. Particular emphasis is placed on the collection and assessment of information regarding air quality, the permitting of sources of air emissions, the enforcement of emission limits, and the attainment and maintenance of ambient air quality standards.

Contractor Selection Process:

The DNR is allowed to contract with Linn County without using a competitive selection process pursuant to state law, including 11 IAC 118.4.

Contract History:

Records indicate that DNR has been contracting with Linn County for implementation of an air program within Linn County since at least 1992. The contract is renegotiated annually with Linn County to provide services that allow for the ongoing implementation of an air program. In comparison to last year (SFY 2017), the contract currently being requested for approval has the same scope of work.

In 2016, 567 Iowa Administrative Code Chapter 30 established fee rules and required the establishment of a fee structure by the DNR. The new fee structure requirements coupled with a projected decrease in Title V emissions fee revenue due to decreases in emissions resulted in reduced DNR funding for this contract by \$80,296 (Title V emissions fees). As in 2017, applicants of Title V permits will be billed by the DNR at the rate established in the DNR fee schedule and Linn County will then be reimbursed by the DNR for their work on the project. Linn County has implemented their own fee structure for major and minor source construction permit applications; these fees are used by Linn County to assist with their required funding commitment.

Christine Paulson
Environmental Specialist Senior
Air Quality Bureau – Environmental Services Division
June 20, 2017

**Environmental Protection Commission
Iowa Department of Natural Resources**

ITEM

21

DECISION

TOPIC

2018 Contract with Polk County Air Quality Division: Air Pollution Control in Polk County

Recommendations:

Commission approval is requested for a one year-service contract with the county government of Polk County; Des Moines, Iowa. The contract will begin on July 1, 2017 and terminate on June 30, 2018. The total amount of this contract shall not exceed \$898,395. This contract is an Iowa Code Chapter 28E contract.

Funding Source:

The statutory authority for the DNR to enter into this contract is Iowa Code §455B.145. This contract will be funded by cost reimbursable payments from Title V emissions fees (not to exceed \$593,069), Clean Air Act Amendments (CAAA) §105 federal grant dollars (not to exceed \$169,909), and CAAA §103 federal grant dollars (not to exceed \$20,000). Polk County has a funding commitment of \$361,486.

Background:

Under Iowa Code §455B.134 (11) and §455B.144 local political subdivisions are able to address air quality problems in their jurisdictions and can establish their own rules. Polk County had a local program, including ordinances and enforcement, in place prior to the DNR's delegation from EPA for an air program.

As specified in Iowa Code §455B.145 and 567 Iowa Administrative Code (IAC) Chapter 27, the Polk County Air Quality Division meets the conditions necessary to retain a local program. As established under the requirements of this contract, the Polk County Air Quality Division is responsible for the ongoing implementation of an air program.

Purpose:

The parties propose to enter into this contract to specify the extent and manner of cooperation between the two agencies in conducting programs for the abatement, control, and prevention of air pollution within Polk County. Particular emphasis is placed on the collection and assessment of information regarding air quality, the permitting of sources of air emissions, the enforcement of emission limits, and the attainment and maintenance of ambient air quality standards.

Contractor Selection Process:

The DNR is allowed to contract with Polk County without using a competitive selection process pursuant to state law, including 11 IAC 118.4.

Contract History:

Records indicate that DNR has been contracting with Polk County for implementation of an air program within Polk County since at least 1992. The contract is renegotiated annually with Polk County to provide services that allow for the ongoing implementation of an air program. In comparison to last year (SFY 2017), the contract currently being requested for approval has the same scope of work.

In 2016, 567 Iowa Administrative Code Chapter 30 established fee rules and required the establishment of a fee structure by the DNR. The new fee structure requirements coupled with a projected decrease in Title V emissions fee revenue due to decreases in emissions resulted in reduced DNR funding for this contract by \$102,909 (Title V emissions fees). As in 2017, applicants of Title V permits will be billed by the DNR at the rate established in the DNR fee schedule and Polk County will then be reimbursed by the DNR for their work on the project. Polk County has implemented their own fee structure for major and minor source construction permit applications; these fees are used by Polk County to assist with their required funding commitment.

Christine Paulson
Environmental Specialist Senior
Air Quality Bureau – Environmental Services Division
June 20, 2017

**Environmental Protection Commission
Iowa Department of Natural Resources**

ITEM

22

DECISION

TOPIC

2018 Contract University of Northern Iowa – Iowa Air Emissions Assistance Program (IAEAP): Small Business Assistance Program

Recommendations:

Commission approval is requested for a one year-service contract with the University of Northern Iowa (UNI); Cedar Falls, Iowa. Services are to be provided by the Iowa Air Emission Assistance Program (IAEAP) of UNI's Iowa Waste Reduction Center (IWRC). The contract will begin on July 1, 2017, and terminate on June 30, 2018. The total amount of this contract shall not exceed \$150,790. This contract is an Iowa Code Chapter 28E contract.

Funding Source:

The statutory authority for the DNR to enter into this contract is under Section 507 of the Clean Air Act and Iowa Code § 455B.133(8)(a). This contract will be funded by cost reimbursable payments funded solely by Title V program fees.

Background:

The Small Business Assistance Program, which is mandated by Section 507 of the Clean Air Act Amendments of 1990, provides technical and non-technical assistance to small businesses. This contract establishes the requirements of Iowa's technical assistance program.

Purpose:

The parties propose to enter into this contract to outline UNI's activities and projects related to providing technical assistance to Iowa's small businesses. Particular emphasis is placed on providing general education and outreach to assist small businesses in determining and understanding their regulatory obligations, and training small businesses on how to complete and submit emissions inventories.

Contractor Selection Process:

The DNR is allowed to contract with the University of Northern Iowa without using a competitive selection process pursuant to state law, including II IAC 118.4.

Contract History:

The Iowa Air Emission Assistance Program (IAEAP) was formally designated as the technical and compliance small business assistance provider in a State Implementation Plan revision that was submitted to and approved by the EPA in the early 1990s. The University of Northern Iowa's IAEAP has demonstrated itself to be an effective assistance provider to Iowa's small businesses.

In comparison to last year (SFY 2017), the contract currently being requested for approval has changed due to decreased funding and the elimination of special projects for 2018. To reflect the reduced funding and change in work priorities, several sections of the contract from 2017 have been combined and streamlined for 2018. Because of a significant decrease in revenues from the Title V emissions fee due to decreased emissions, the DNR's budget contribution decreased by \$157,334 from 2017 levels.

Christine Paulson
Environmental Specialist Senior
Air Quality Bureau – Environmental Services Division
June 20, 2017

**Environmental Protection Commission
Iowa Department of Natural Resources**

ITEM

23

DECISION

TOPIC **Laboratory Certification Contract Amendment**

Recommendations:

Commission approval is requested for a 2-year amendment to a service contract with the University of Iowa on behalf of the State Hygienic Laboratory (SHL). The contract will begin on June 30, 2017, and terminate on June 30, 2019. The total amount of this contract shall not exceed \$300,000.00.

Funding Source:

This contract will be funded through Laboratory Certification Fees 567- 83.3 (455B) Iowa Administrative Code. The fees paid by laboratories support 100% of the cost of the contract. The contract agreement amount is an estimate. The actual cost will be based on the number of laboratories applying for certification in each year of the contract. The DNR pays 86.0% of the collected fees to SHL through this contract.

Background:

DNR certifies environmental laboratories throughout the United States for wastewater (CWA), drinking water (SDWA), solid waste or contaminated sites (SW/CS) and underground storage tank (UST) environmental programs. The SHL provides technical support as the laboratory appraisal authority. Any laboratory that provides environmental compliance data for Iowa programs must be certified in Iowa. Currently, there are 183 labs certified by the DNR.

Purpose: The purpose of the contract amendment is to extend the contract for 24 months for the Contractor to perform the same task at the same rate of compensation.

Contractor Selection Process:

The DNR is entering into this Contract with SHL to perform the duties specified in 567 IAC Chapter 83. SHL serves as the state environmental and public health laboratory and possesses the required expertise to conduct this program.

Contract History:

The DNR has administered this program since 1986 and has utilized the SHL as the appraisal authority during this time. Fees collected by DNR have been disbursed to SHL through contracts. The DNR is authorized to contract with the SHL for these services under Iowa Code section 455B.103(3). The current 2-year contract, (\$300,000.00) is being amended to extend it for two additional years.

Kathleen Lee
Senior Environmental Specialist
Water Quality Bureau
June 21, 2016



SCS ENGINEERS

Rural Iowa Hub & Spoke Recycling Project



IOWA DEPARTMENT OF
NATURAL RESOURCES

Project Purpose

- Assess feasibility of creating rural partnerships with Hub & Spoke type system
- Increase rural recycling participation
- Maintain and improve recycling efficiencies and economics

Project Approach

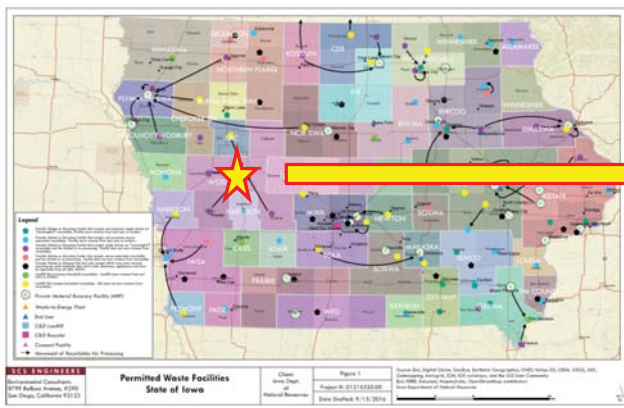
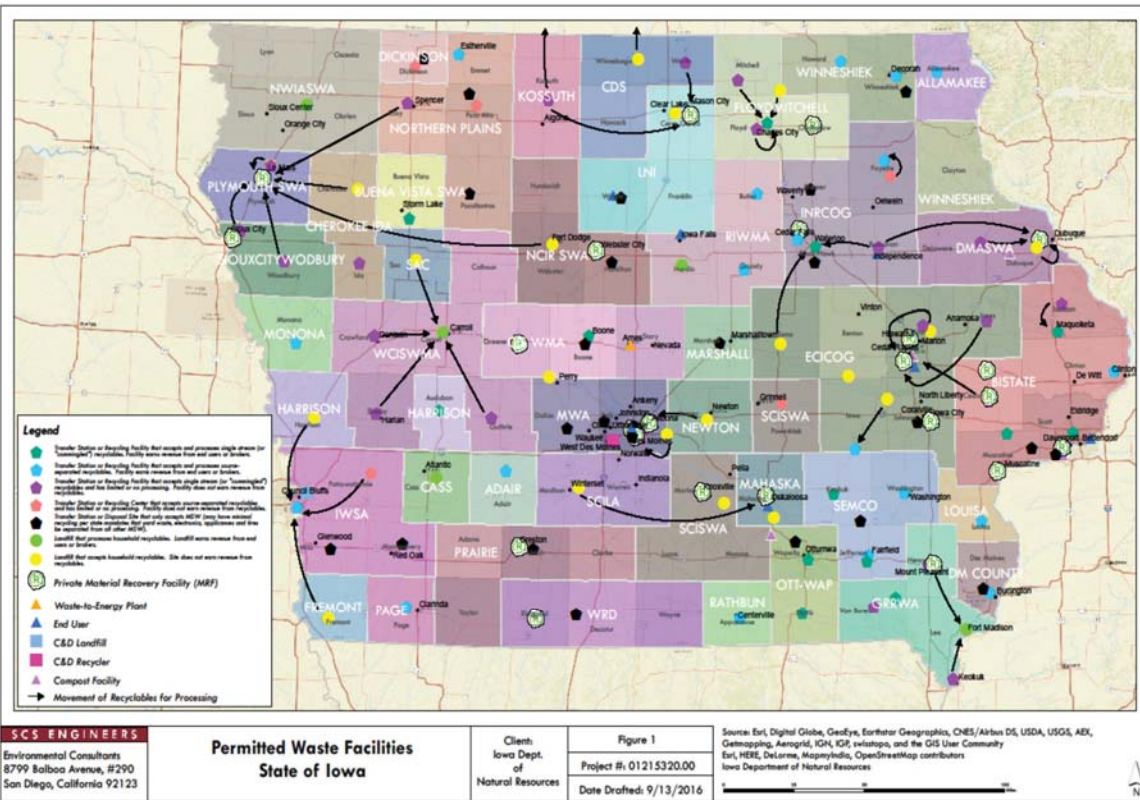
- Research and consolidate existing waste generation data
- Inventory existing recycling operations
 - Infrastructure
 - Service providers
 - Interest in Hub & Spoke
- Research and summarize other states' rural recycling programs
- Develop conceptual Hub & Spoke system for representative area of rural Iowa
- Develop cost-benefit analysis

SCS ENGINEERS

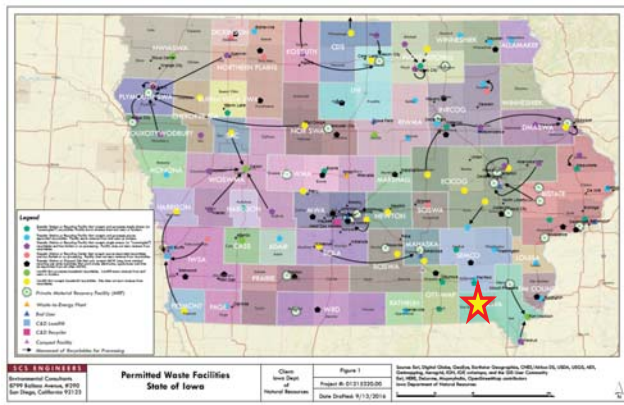
Permitted Facilities

- Transfer Station or Recycling Facility
- Landfills
- MRFs
- Waste-to-Energy
- End User

SCS ENGINEERS



Property	Value
OBJECTID	17
Type	F
Facility	Carroll County Sanitary Landfill/Recycling Center
Fac_typ	Municipal Landfill
mat_origin	Recycling comes from - Shelby County get all their d...
mat_final	
ann_msv_to	57,086
ann_hshld_	0
City	CARROLL
Address1	19111 Kittyhawk Ave
Lat	42.0713
Long	-94.906
County	Carroll
planning_a	West Central Iowa Solid Waste Management Associa...
Contact	Mary Wittry
Email	mwittry@carrollcountylandfill.com
Phone	(712) 792-5001
Type1	Landfills that processes household recyclables. Land...
notes_long	Dual stream mrf - since its inception in 1991 material...



Property	Value
OBJECTID	120
Type	A
Facility	Sedore Sanitation and Recycling
Fac_typ	Transfer Station
mat_origin	Van Buren County
mat_final	
ann_msv_to	
ann_hshld_	0
City	Stockport
Address1	28942 Highway 16. Recycling center - North of Keos...
Lat	40.8131
Long	-91.793
County	Van Buren
planning_a	Great River Regional Waste Authority
Contact	Troy
Email	
Phone	319-796-4499 or 319-288-0908
Type1	Transfer Station or Recycling Facility that accepts an...
notes_long	Spoke for Recycling Center Hub in Keosauqua

Results

- Existing recycling infrastructure is varied and strong
- Numerous private and public enterprises and partnerships
- Existing system contributes to high level of access to recycling in rural communities

Recommendations

- Increase efficiency of existing programs
- Don't necessarily need Statewide Hub & Spoke System
- Public and private entities share resources and duties
- Implement reporting system to gather recycling data
- Strategically allocate of funds
- Use cost-benefit tool to target regions for creation of new processor or hub

**Iowa Department of Natural Resources
Environmental Protection Commission**

ITEM

25

DECISION

TOPIC

DEMAND FOR HEARING – HUMBOLDT COUNTY; BROOKGLADE
FARMS, LLC – WACOUSTA FINISHER FARM SITE

On April 25, 2017, the Department issued a draft construction permit to Brookglade Farms, LLC for the Wacousta Finisher Farm Site, indicating a preliminary decision to approve Brookglade Farms, LLC's application to construct one new swine confinement finishing building in Wacousta Township, Humboldt County. Notice of the preliminary decision was delivered to the Humboldt County Board of Supervisors (Humboldt County) on April 25, 2017. On May 1, 2017 Humboldt County notified the Department of its intent to file a demand for hearing, contesting the Department's preliminary approval of this application. Humboldt County's Demand for Hearing was received by the Department on May 26, 2017. Humboldt County has requested the opportunity to make oral statements. Pertinent documents relating to the Demand for Hearing, and the Department's and Brookglade Farms, LLC's responses to it, will be provided to the Commission.

The Commission is requested to review this matter and render a final decision on June 20, 2017, or no later than June 30, 2017, which is 35 days from the date the Department received Humboldt County's Demand For Hearing.

Supporting materials (Construction Application, Master Matrix, DNR Onsite Review, etc.) associated with the Demand for Hear can be found at <http://www.iowadnr.gov/About-DNR/Boards-Commissions/Environmental-Protection-EPC>.

William Ehm
Administrator
Environmental Services Division

June 6, 2017

Peggy J. Rice
Auditor

Christine R. Freund
Deputy Auditor



Trish L. Egli
Drainage Clerk

Kris L. Mickelson
Clerk

Humboldt County Auditor's Office
203 Main Street, Box 100
Dakota City, Iowa 50529
Telephone 515-332-1571 Fax 515-332-1738

May 1, 2017

Director, Department of Natural Resources
Henry A. Wallace Building
502 E. Ninth St.
Des Moines, IA 50319
ATTN: Jerah Sheets

RE: Name of Operation: Wacousta Finisher Farm Site
Location: SE ¼ of the SW ¼ of Section 33-93-30
Facility ID#: 63826

Dear Mr. Sheets:

The Humboldt County Board of Supervisors is in receipt of the draft permit for the Wacousta Finisher Farm Site confinement construction permit. The Board understands that it has the right to appeal the issuance of a final construction permit within 14 days after its receipt of the draft permit under Iowa Code Section 459.304 and Iowa Administrative Rule 567-65.10.

After consideration of this matter, the Board voted to contest the draft permit issued by the Iowa Department of Revenue and demand a hearing.

Sincerely,

A handwritten signature in cursive script that reads "Rick Pedersen".

Rick Pedersen, Chairman
Humboldt County Board of Supervisors

96133 MAY03'17 PM 4:14

HUMBOLDT COUNTY ATTORNEY'S OFFICE

Jonathan Beaty
Humboldt County Attorney

203 Main St., P.O. Box 23
Dakota City, IA 50529
Phone: 515-332-7139
Fax: 515-332-7106

RE: Appeal of the Humboldt County Board of Supervisors for the Permit Issued by the Iowa Department of Natural Resources for the Wacousta Finisher Farm Site, Facility ID 63826

The Humboldt County Board of Supervisors recommended that the Iowa Department of Natural Resources deny the request of Brookglade Farms, LLC to be issued a construction permit for one new deep pit swine confinement building. This building was to be located in the SE 1/4 of the SW 1/4 of Section 33, T93N, R30W, Wacousta Township, Humboldt County, Iowa. The Iowa Department of Natural Resources reviewed this application. After their review, the Iowa Department of Natural Resources approved Brookglade Farms' request. This approval was based on the Iowa Department of Natural Resources allowing this manure management plan to share fields with another manure management plan.

After the Iowa Department of Natural Resources issued their approval of Brookglade Farms' request, the Humboldt County Board of Supervisors filed a notice of appeal and request for hearing. This is based on the concern of two swine confinements using the same fields in their manure management plans. It is not just the sharing of a few fields. Brookglade Farms has the same manure management plan for two different swine confinements. The Iowa Administrative Code provides that each confinement operation shall be covered by a separate manure management plan. 567 IAC 65.16(3)(a). Further, Iowa Code section 459.312(2) provides that "[n]ot more than one confinement feeding operation shall be covered by a single manure management plan. Brookglade Farms has one manure management plan for two confinement operations.

Humboldt County implemented a requirement that any application for a confinement construction permit be filed with additional copies. This was done to help streamline the process and to save time and money. Making several copies of an extremely lengthy application is time consuming and costly. Brookglade Farms refused to follow this requirement. It is concerning that a simple requirement was ignored because Brookglade Farms did not like it.

Humboldt County also required a site survey. A mutually agreed upon date was chosen. Brookglade Farms failed to submit the site survey by the date they agreed to have it submitted. This is also concerning as Brookglade Farms could not deliver by a date to which they agreed.

It is important that any confinement operation follow rules and regulations. Brookglade Farms ignoring or refusing to follow local rules on the application process concerns Humboldt County. Brookglade must follow many rules and regulations to run a confinement operation. Choosing to ignore Humboldt County's simple requests does not instill confidence that Brookglade Farms will follow rules with its confinement operation. These are major concerns for Humboldt County, but Humboldt County cannot deny the application or do more than make a recommendation that will be ignored.

Based on the above reasons, the Humboldt County Board of Supervisors respectfully requests the application of Brookglade Farms' for a permit for one new deep pit swine confinement building be denied.

BEFORE THE IOWA ENVIRONMENTAL PROTECTION COMMISSION

<p>IN THE MATTER OF:</p> <p>HUMBOLDT COUNTY HEARING DEMAND: Re: Brookglade Farms, LLC – Wacousta Finisher Farm Site Facility #63826</p>	<p style="text-align: center;">DEPARTMENT RESPONSE TO HUMBOLDT COUNTY DEMAND FOR HEARING</p>
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The Iowa Department of Natural Resources (Department) responds to the Demand for Hearing submitted by Humboldt County as follows:

On May 26, 2017, the Department received a Demand for Hearing from the Humboldt County Board of Supervisors (Humboldt County) after a Notice of Intent (draft permit) was issued to Brookglade Farms, LLC (Brookglade Farms) for the Wacousta Finisher Farm Site on April 25, 2017. The draft permit authorizes Brookglade Farms to construct one new swine confinement finishing building (384' x 51'2" x 8' with an 8' below floor concrete pit) as an expansion of an existing confinement feeding operation. The new confinement building will house 2,500 head and the total number of animals for the entire operation after construction of the new confinement building will be 5,000 head or 2,000 animal units. The site is located in the SE ¼ of the SW ¼ of Section 33, T93N, R30W, Wacousta Township, Humboldt County, Iowa.

Department's Review History

After receipt of the construction permit application on March 6, 2017, Department staff from Field Office 2 (FO2) conducted a site survey on March 17, 2017, and determined that the location of the proposed confinement building satisfies all separation distances required by Iowa law, including distances to commercial enterprises, residences, water sources and road rights-of-way. FO2 staff also reviewed the manure management plan submitted by Brookglade Farms and approved it on March 15, 2017. By an email received April 4, 2017, Humboldt County reported that Brookglade Farms' application received a failing Master Matrix score of 410 points (at least 440 required to pass); Humboldt County recommended that the Department deny the application because Brookglade Farms failed to submit a site survey as requested by Humboldt County and Brookglade Farms stated that the manure would be applied to ground already being used by another animal feeding operation.

When a county fails a Master Matrix application, the rules require that the Department conduct an independent evaluation. Pursuant to 567 Iowa Administrative Code (IAC) 65.10(5)"c", Cindy Garza, Department Environmental Engineer, conducted the independent evaluation of the Master Matrix, along with the supporting documents submitted with the application. The application was scored by the Department at 445, which is a satisfactory scoring. For this reason, Ms. Garza issued the draft permit on April 25, 2017.

Humboldt County Contentions

In its Demand for Hearing, Humboldt County sets out the following contentions:

- 1) Use of the same application fields for two confinement feeding operations in the Manure Management Plans (MMP). Humboldt County contends that Brookglade Farms uses the same fields in the MMPs for two confinement feeding operations. Humboldt County states that Brookglade Farms has the same MMPs for two different confinement feeding operations
- 2) An applicant for a confinement construction permit must file additional copies. Humboldt County requires that an applicant for a confinement construction permit must submit additional copies of the construction permit application to streamline the permit and save time and money. Brookglade Farms did not comply with this requirement.
- 3) An applicant is required to submit a site survey. Humboldt County requires that construction permit applicants submit a site survey. Humboldt County requires an applicant to submit a site survey and several maps. Humboldt County contends that Brookglade Farms failed to submit the survey by the date that was agreed upon between Humboldt County and Brookglade Farms.

Department Response

1) Use of the same application fields for two confinement feeding operations in the MMP. The administrative rules do not require that confinement feeding operations have separate fields in their MMPs. The same application field can be in one or several MMPs. The MMP is merely a plan of where the facility intends to apply manure, and just because a field is in a plan does not mean manure will be applied to that field during the MMP time period. It is also acceptable for a facility to use the same fields in more than one MMP. The Department does not have the authority to deduct points from the Master Matrix or to deny a MMP because the application fields are in more than one MMP. Humboldt County contends that two confinement operations are covered under one MMP. The DNR has no evidence of this and the MMP submitted for the Wacousta Finisher Farm Site includes only one facility.

2) An applicant for a confinement construction permit must file additional copies. The Master Matrix and administrative rules do not require additional copies of the construction permit application. The requirement for additional copies is a Humboldt County requirement and does not impact the scoring of the Master Matrix. The proposed building passed the Master Matrix; the Department does not have the authority to consider separate county requirements or require additional copies of the application.

3) An applicant is required to submit a site survey. The requirement for the survey and maps is a Humboldt County requirement and does not impact the scoring of the Master Matrix. The proposed building passed the Master Matrix; the Department does not have the authority to consider separate County requirements or require the type of survey and maps required by Humboldt County.

IOWA DEPARTMENT OF NATURAL RESOURCES

By: Kelli Brabec Book
Kelli Brabec Book, Attorney
Iowa Department of Natural Resources
7900 Hickman Road, Suite 1
Windsor Heights, Iowa 50324
Phone: 515/725-9572

Copy to: Jonathan Beaty; Humboldt County Attorney
Amy Johnson; Brown, Winick, Graves, Gross, Baskerville, & Schoenebaum P.L.C.

**Environmental Protection Commission
Iowa Department of Natural Resources**

ITEM

26

DECISION

TOPIC

**Contract with University of Iowa on behalf of the STATE HYGIENIC LABORATORY
for 2018 SHL Services in Support of the DNR Air Quality Bureau**

Recommendations:

Commission approval is requested for a one year-service contract with the University of Iowa on behalf of the State Hygienic Laboratory. The contract will begin on 7/1/2017 and terminate on 6/30/2018. The total amount of this contract shall not exceed \$1,726,394.

Funding Source:

Funding for this contract consists of federal 103 grant funds (\$390,593), air contaminant funds (\$1,022,857), and State "Environment First" HC2A funds (\$312,944).

Background:

Under Iowa Code 455B.103, the department has responsibility for conducting ambient air monitoring in the State of Iowa. SHL currently operates most of the ambient air monitoring sites in Iowa. It also provides analytical and technical support for ambient air monitoring activities throughout the State. It weighs particulate samples and performs analysis of air samples for many toxic compounds found in urban air. SHL also provides analysis of asbestos samples gathered by DNR inspectors. SHL conducts annual audits of SHL ambient air monitoring activities as well as those of the Local Programs. This contract provides for a continuation of these essential services.

Purpose:

The parties propose to enter into this contract for the purpose of retaining SHL to perform ambient monitoring and related services in support of the department's Air Quality Bureau.

Contractor Selection Process:

The University of Iowa State Hygienic Laboratory was chosen for this project in accordance with Iowa Code 455B.103, which directs the department, if possible, to contract with other State agencies for services. Iowa Code 263.7 establishes environmental investigations as an essential duty of SHL, and SHL has considerable experience and expertise in this area.

Contract History:

The DNR has contracted with the University of Iowa for ambient air monitoring services for over thirty years. This contract represents ongoing services provided by SHL to the Air Quality Bureau and is renegotiated annually.

The last contract total was \$2,149,861. The 20% decrease in contract costs reflects a reduction in monitors and monitoring sites in the network.

Sean Fitzsimmons
Environmental Specialist Senior Air Quality Bureau, Environmental Services Division