



CAFO TRANSFER INFORMATION

TO: Bidders for Blue Stream Dairy

July 27, 2016

Before submitting a bid for Blue Stream Dairy you should review these materials regarding Blue Stream's CAFO permit and the process by which ODA may approve transfer of the CAFO to a new owner. **When submitting your Bid Package, you should include the completed CAFO Transfer Process Form and Exhibit A describing your existing dairy operations (if applicable).**

Attached in this package:

1. CAFO Transfer Process Form and Exhibit A
2. Blue Stream's CAFO and related documentation
3. ODA Regulation on permit transfer - OAC Section 901:10-1-08
4. ODA Form: Transfer Instructions
5. ODA Form 3900-001 General Information
6. ODA Form 3900-001b Add Owner Operator
7. ODA Form 3900-002 Compliance Form
8. ODA Form Facility Information
9. ODA's Example Letter of Request

CAFO Transfer Process Form

Blue Stream Dairy LLC holds a permit from the Ohio Department of Agriculture to operate a concentrated animal feeding operation (CAFO). Potential bidders for the Blue Stream dairy facility are advised that a party seeking to acquire the dairy may apply to ODA for permission to acquire an existing CAFO permit. See Ohio Administrative Code:

<http://codes.ohio.gov/oac/901:10-1-08v1>

Bidder hereby submits the following in connection with its bid to purchase the Blue Stream Dairy dairy operation:

1. Bidder's name and physical address is as follows:

Bidder Entity's Individual Representative (if applicable): _____

Bidder phone number is: _____

Bidder e-mail address: _____

2. Check applicable box:

[] Bidder does not intend to seek ODA permission to acquire BSD's CAFO permit and, if bidder acquires assets of BSD, will nevertheless operate such assets in full compliance with all applicable laws of the State of Ohio.

[] Bidder intends to seek ODA permission to acquire BSD's CAFO permit. [Please review and respond, where appropriate, to matters in paragraphs 3-7 below]

3. Bidder acknowledges it has read and understands Ohio Admin. Code Section 901:10-1-08v1 and has received pertinent ODA Forms:

- Transfer Instructions
- Form 3900-001 General Information
- Form 3900-001b Add Owner Operator
- 3900-002 Compliance Form
- Facility Information Form
- Example letter of Request

4. Bidder acknowledges that its experience and history of regulatory compliance as a dairy operator will have bearing on ODA's consideration of its application for transfer of the BSD CAFO. Please complete and submit with your Private Bid Package the attached Exhibit A, which sets forth the following information with respect to **all** dairy operations currently operated by bidder or any of its affiliates in the United States:
 - Owner's legal name
 - Owner's business address
 - Business name of dairy operation (if different)
 - Address and State of dairy operation
 - Does the dairy hold a CAFO (or similar) permit from the applicable state regulator?
5. Bidder assumes full responsibility for timely obtaining ODA approval of transfer of the CAFO. Bidder understands that ODA Rule 901:10-1-08 requires Bidder to submit detailed information about Bidder and its controlling parties, including information regarding Bidder's compliance history with agricultural permitting and regulations in other jurisdiction and may delay such approval pending receipt of such information from the appropriate authorities in such other jurisdictions and ODA may withhold approval depending on its findings.
6. BSD has advised Bidder to be proactive in obtaining all needed information relating to a request for permit transfer, including planning for and facilitating the timely release to ODA of information about Bidder by regulators in other jurisdictions where bidder operates, at the earliest possible time.
7. Bidder understands that the APA provides that Buyer must close the purchase within 30 days of acceptance of the APA, but allows the Buyer the option to extend the closing by 30 days on two separate occasions, if ODA approval of transfer of the CAFO permit has not been obtained provided Buyer deposits (with each extension) an additional \$150,000 as earnest money in escrow. If Buyer does not close by the duly extended closing date, Buyer will be deemed in default, seller may terminate and buyer will forfeit all Earnest Money. In that event the sellers may proceed with a sale to another party.

Bidder Name or Bidder Entity Name:

Printed

[BY:]_____

Bidder's signature (and title if applicable)

Date

EXHIBIT A – to CAFO Transfer Process Form

IDENTIFICATION OF BIDDER DAIRY OPERATIONS – Provide for each dairy operation controlled by bidder or its affiliates:

- Owner's legal name
 - Business name of dairy (if different)
 - Address and State
 - Does the dairy hold a CAFO (or similar) permit from the applicable state regulator?
If so, please provide the identification assigned by issuer for such permit.
-

**Ohio Department of Agriculture
State of Ohio**

Order No: 2012-197

**81-110-PTI-002
81-110-PTO-002**

Blue Stream Dairy, Inc.
220 South Elizabeth Street
P.O. Box 126
Spencerville, OH 45887

Applicant(s):

Based on Sections 903.02 and 903.03 of the Ohio Revised Code, the Ohio Department of Agriculture hereby identifies Permit to Install No. 81-110-PTI-002 and Permit to Operate No. 81-110-PTO-002 for the following Facility:

Blue Stream Dairy
3242 Mentzer Church Road
Convoy, OH 45832

Based upon findings that the Facility is of correct design capacity; that the Facility's Manure Management Plan, Insect and Rodent Control Plan, and Mortality Management Plan all conform to best management practices; and that the Facility is to be operated in a manner that protects the waters of the state,

By the authority vested in my office by law, it is hereby

ORDERED:

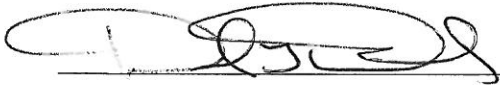
1. That, a Permit to Install and a Permit to Operate to be issued to Blue Stream Dairy, Inc.
2. That the Permit to Install is valid for twenty-four (24) months from the effective date shown below. The Permit to Install expires twenty-four (24) months from the date shown below, unless there is a continuing program for construction or the permittee has entered into a binding contractual obligation to undertake and complete construction within a reasonable time. The Director may extend the expiration of the Permit to Install upon written request of the permittee in accordance with Rule 901:10-1-02 of the Ohio Administrative Code (OAC). The permittee shall notify the Department prior to beginning actual construction of any manure storage or treatment facility.
3. The Permit to Operate is valid for a period of five years and is subject to the following terms and conditions:

Stocking animals above the level allowed under the PTI and PTO is prohibited until the following documents are received and construction approved in accordance with Rule 901:10-2-01 of the OAC.

1. The notarized statement,
 2. Completed and approved as-built plans, and
 3. An inspection of the facilities after construction by the Ohio Department of Agriculture.
4. That the Permit to Operate shall expire at midnight on a date five years from the effective date shown below. In order to receive authorization to continue to operate beyond the date of expiration, the permittee shall apply to renew the Permit to Operate from the Department not later than one hundred eighty days prior to the expiration of the Permit to Operate.
5. That a certified copy of this Order be sent to Blue Stream Dairy, Inc.

Effective Date of this Order: Upon journalization.

David T. Daniels, Director





Date 6/26/2012

Entered, Ohio Department of Agriculture Journal this 26 day of June

2012 by Chris Ellis

NOTICE

This Order may be appealed to the appropriate court of common pleas in accordance with the Revised Code section 119.12 by filing a notice of appeal with both the Ohio Department of Agriculture and with the appropriate court of common pleas within **fifteen (15) days** of the date of mailing of this Order. Revised Code section 119.12 states:

Any party adversely affected by any order of an agency issued pursuant to an adjudication denying an applicant admission to an examination, or denying the issuance or renewal of a license or registration of a licensee, or revoking or suspending a license, or allowing the payment of a forfeiture under section 4301.252 of the Revised Code may appeal from the order of the agency to the court of common pleas of the county in which the place of business of the licensee is located or the county in which the licensee is a resident, except that appeals from decisions of the liquor control commission, the state medical board, state chiropractic board, and board of nursing shall be to the court of common pleas of Franklin county. If any party appealing from the order is not a resident of and has no place of business in this state, the party may appeal to the court of common pleas of Franklin county.

Any party adversely affected by any order of an agency issued pursuant to any other adjudication may appeal to the court of common pleas of Franklin county, ...

Any party desiring to appeal shall file a notice of appeal with the agency setting forth the order appealed from and stating that the agency's order is not supported by reliable, probative, and substantial evidence and is not in accordance with law. The notice of appeal may, but need not, set forth the specific grounds of the party's appeal beyond the statement that the agency's order is not supported by reliable, probative, and substantial evidence and is not in accordance with law. The notice of appeal shall also be filed by the appellant with the court. In filing a notice of appeal with the agency or court, the notice that is filed may be either the original notice or a copy of the original notice. Unless otherwise provided by law relating to a particular agency, notices of appeal shall be filed within fifteen days after the mailing of the notice of the agency's order as provided in this section. For purposes of this paragraph, an order includes a determination appealed pursuant to division (C) of section 119.092 of the Revised Code. ...

CERTIFICATION

STATE OF OHIO

:

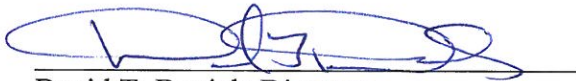
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COUNTY OF LICKING, SS

:

I, David T. Daniels., Ohio Department of Agriculture, do hereby certify that the annexed instrument is a true and correct copy of **ORDER No. 2012-197** which was entered upon the order journal of the Ohio Department of Agriculture on the 26 day of June, 2012.

In testimony whereof, I have hereunto set my hand and affixed the seal of the Ohio Department of Agriculture at Reynoldsburg, Ohio, this 26 day of June, 2012.



David T. Daniels Director
Ohio Department of Agriculture



**OHIO DEPARTMENT OF AGRICULTURE
LIVESTOCK ENVIRONMENTAL
PERMITTING PROGRAM**

CONFINED ANIMAL FEEDING OPERATION

PROPOSED DAIRY EXPANSION

for the

Blue Stream Dairy

Tully Township, Van Wert County

January 23, 2012

Prepared By:

North Point Engineering Corporation
6657 Frank Ave NW, Suite 200
North Canton, OH 44720
Phone (330)-494-8888 Fax (330)-494-8889

RECEIVED
JAN 31 2012
LIVESTOCK PERMITTING



GENERAL INFORMATION

The following sections are required for the all permits, regardless of type:

- PART 1: OWNER'S/OPERATOR'S INFORMATION
- PART 2: FACILITY INFORMATION
- PART 3: WATERSHED OF RECORD
- PART 4: PERMIT APPLICATION PREPARATION
- PART 5: REASON FOR APPLICATION
- PART 6: OTHER PERMITS, LICENSES, CERTIFICATIONS, ETC.
- PART 7: CONFIDENTIAL INFORMATION
- PART 8: CERTIFIED LIVESTOCK MANAGER
- PART 9: LOCAL NOTIFICATION
- PART 10: COMPLIANCE INFORMATION
- PART 11: TYPES OF ANIMAL CONFINEMENT BUILDINGS
- PART 12: ANIMAL CAPACITY

OWNER'S/OPERATOR'S INFORMATION

INSTRUCTIONS: All owners, operators, officers, directors, partners, or others that have a right to control or in fact control management of an applicant or the selection of officers, directors or managers of an applicant must be identified. If more space is needed, attach a separate piece of paper with the required information. At least one owner/operator must sign and certify the permit application (Rule 901:10-1-02). If any owner, operator, partner, or controlling person is a corporation, limited liability company (LLC or Ltd.), or limited liability partnership (LLP), identify the officers, directors, partners, or members of that company using supplemental General Information Form 3900-GEN-001b.

OWNER/OPERATOR 1:

Name: Blue Stream Dairy, Inc.
 Address: 220 South Elizabeth Street, P.O. Box 126
 City: Spencerville State: OH Zip Code: 45887
 Phone: (419)-647-4191 Fax: (419)-647-6720 Cell:
 Email Address: jstepleton@flexiblefoam.com

OWNER/OPERATOR 2:

Name:
 Address:
 City: State: Zip Code:
 Phone Fax: Cell:
 Email Address:

OWNER/OPERATOR 3:

Name:
 Address:
 City: State: Zip Code:
 Phone Fax: Cell:
 Email Address:

OWNER/OPERATOR 4:

Name:
 Address:
 City: State: Zip Code:
 Phone Fax: Cell:
 Email Address:

OWNER/OPERATOR 5:

Name:
 Address:
 City: State: Zip Code:
 Phone Fax: Cell:
 Email Address:

RECEIVED

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Livestock Environmental Permitting
 General Information (LEPP 3900-001)
 September 2011
 Rev 2-28-12
 Page 2 of 12

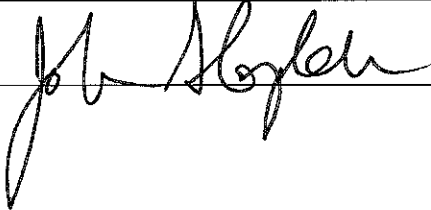
"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information is, to the best of my knowledge and belief, true and accurate and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine or imprisonment for knowing violations."
[Rule 901:10-1-02(A)(8)]

Check one or both: ☒ Name of Owner ☒ Name of Operator

John Stepleton, Assistant Secretary/Treasurer

Print Name

Signature



1/23/2012
Date Signed

FORM LEPP-3900-001, PART 2: GENERAL INFORMATION

FACILITY INFORMATION

Name of Facility: Blue Stream Dairy
Contact Person: Jon Morrison
Facility Address: 3242 Mentzer Church Road
City: Convoy State: OH Zip Code: 45832
County: Van Wert Township: Tully Section: 17
Phone: (419)-647-4191 Fax: (866)-862-8815
Email: jmorrison@flexiblefoam.com

FORM LEPP-3900-001, PART 3: GENERAL INFORMATION

WATERSHED OF RECORD

The name of the watershed can be located on the U.S. Environmental Protection Agency Watershed Information Network web site: <http://cfpub.epa.gov/surf/locate/index.cfm>. For assistance please contact the Ohio Department of Agriculture, Livestock Environmental Permitting Program at (614) 387-0470 or through the ODA web site at: <http://www.agri.ohio.gov/divs/LEPP/Lepp.aspx>.

Watershed Name: Auglaize Watershed
Address (8 digit code): 04100007

FORM LEPP-3900-001, PART 4: GENERAL INFORMATION

PERMIT APPLICATION PREPARATION

PERMIT APPLICATION PREPARED BY (Rule 901:10-1-02[A][8]):

Name: David A. Gerdeman, P.E.
Company: North Point Engineering Corporation
Address: 6657 Frank Ave. NW, Suite 200
City: North Canton State: OH Zip Code: 44720
Phone: 330-494-8888 Fax: 330-494-8889
Email: dgerdeman@npecorp.com

PERMIT TO INSTALL PREPARATION BY PROFESSIONAL ENGINEER (Rules 901:10-2-03, 901:10-2-05, 901:10-2-06):

Name: David A. Gerdeman, P.E.
Company: North Point Engineering Corporation
Address: 6657 Frank Ave. NW, Suite 200
City: North Canton State: OH Zip Code: 44750
Phone: 330-494-8888 Fax: 330-494-8889
Email: dgerdeman@npecorp.com

REASON FOR APPLICATION**A. PERMIT TO INSTALL** (Rules 901:10-2-01 to 901:10-2-06)

- ☐ Proposed construction of a new CAFF or MCAFF.
☐ Proposed construction of a new manure storage or treatment facility at an existing CAFF or MCAFF by more than 10%.
☐ Proposed modification of an existing PTI. ("modification" is defined in Rule 901:10-1-01).
☐ Proposed expansion of design capacity at an existing animal feeding facility (AFF) to the size of a CAFF or a MCAFF.
☒ Proposed expansion of design capacity at an existing CAFF or existing MCAFF by more than 10% increase.
☐ Proposed expansion of design capacity at an existing CAFF to a MCAFF.
☐ Other (List and describe in detail):

B. PERMIT TO OPERATE OR MAJOR OPERATIONAL CHANGE (Rules 901:10-2-07 to 901:10-2-20 and 901:10-1-09)

- ☐ Proposed operation of a CAFF.
☐ Proposed expansion of animal numbers at an existing AFF to the size of a CAFF.
☐ Renewal of an expiring PTO.
☐ Major Operational Change (MOC)
☒ Other (List and describe in detail):
 Updating the PTO

C. NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) (Rules 901:10-2-07 to 901:10-2-11, 901:10-2-13 to 901:10-2-16, 901:10-2-18, 901:10-2-20)

- ☒ Designated as a concentrated animal feeding facility (CAFF).
☐ Proposed new discharge.
☐ Other (List and describe in detail):

☐ **General National Pollution Discharge Elimination System (NPDES)** (901:10-4 OAC)

☒ **Individual National Pollution Discharge Elimination System (NPDES)** (Rules 901:10-2-07 to 901:10-2-11, 901:10-2-13 to 901:10-2-16, 901:10-2-18, 901:10-2-20, 901:10-3-01 to 901:10-3-11)

D. FEES:

- | | |
|---|------------|
| <input checked="" type="checkbox"/> Permit to Install | \$2,250.00 |
| <input checked="" type="checkbox"/> Permit to Operate | \$1,000.00 |
| <input type="checkbox"/> Permit Modification | \$1,000.00 |
| <input type="checkbox"/> Permit Transfer | \$ 500.00 |
| <input type="checkbox"/> Major Operational Change | \$ 500.00 |
| <input type="checkbox"/> Certified Livestock Manager | \$ 50.00 |

E. CONSTRUCTION STORM WATER NPDES PERMIT (Rules 901:10-2-04[E] and 901:10-3-11)

During the construction described in your permit application, will one acre or more be disturbed?

- ☒ Yes. You **WILL** need to apply for a Construction Storm Water NPDES Permit.
☐ No. You **WILL NOT** need to apply for a Construction Storm Water NPDES Permit.

OTHER PERMITS, LICENSES, CERTIFICATIONS, ETC.

The issuance of this permit does not constitute express or implied approval or agreement that if constructed and operated in accordance with the application and the plans included in the application that this facility will operate in compliance with all applicable federal, state, and local laws and regulations. Before the start of operations authorized in a permit(s) issued by ODA, the owner/operator is advised to have all other necessary permits or any other regulatory documents current and on file. List the status of any permits, licenses, etc. and the origin or source or issuing department of the permits, that are required for the operation of this facility. The source means the issuing government agency for most of these permits, which include the Ohio Department of Health, local health department, Ohio EPA, or the Ohio Department of Natural Resources. The following steps shall be followed on answering these items:

- Check **YES** if the Permit is issued and provide the permit number.
- Check **NO** if the Permit is required but not yet issued at the date of submittal of this application and provide the status of the permit application (i.e., Submitted, Not Submitted, etc.)
- Check **N/A** if the Permit is not applicable to this facility.

A. FLOOD PLAIN PERMIT:

☐ Yes Permit I.D.: _____
 Status (Pending-issue date-etc.) _____
☐ No _____
☒ N/A Source: _____

B. SEPTIC SYSTEM PERMIT:

☒ Yes Permit I.D.: Unknown
 Status (Pending-issue date-etc.) _____
☐ No Issued, existing system
☐ N/A Source: OEPA

C. DAIRY MILK LICENSE:

☒ Yes License I.D.: 81-16-004-C
 Status (Pending-issue date-etc.) _____
☐ No _____
☐ N/A Source: Ohio Department of Agriculture-Dairy Division

D. DAM SAFETY PERMIT (Ohio DNR/Division of Soil and Water Resources):

☐ Yes Permit I.D.: _____
 Status (Pending-issue date-etc.) _____
☐ No _____
☒ N/A Source: _____

E. WATER WITHDRAWAL REGISTRATION (Ohio DNR/Division of Soil and Water Resources):

☐ Yes Registration I.D.: _____
 Status (Pending-issue date-etc.) _____
☐ No _____
☒ N/A Source: _____

F. PUBLIC DRINKING WATER (25 or more employees):

☐ Yes Permit I.D.: _____
Status (Pending-
☐ No issue date-etc.) _____
☒ N/A Source: _____

G. MORTALITY COMPOSTING CERTIFICATION:

Status (Pending-
☐ Yes issue date-etc.) _____
☐ No Issuing Agency: _____
☒ N/A

H. COMPOSTING License (If selling or giving compost away for application on land of others):

☐ Yes License I.D.: _____
Status (Pending-
☐ No issue date-etc.) _____
☒ N/A Source: _____

I. 401/404 CERTIFICATE (Ohio EPA/Army Corps of Engineers):

☐ Yes Certificate I.D.: _____
Status (Pending-
☐ No issue date-etc.) _____
☒ N/A Source: _____

J. OTHER PERMITS OR LICENSES (List and describe in detail):

☒ Yes Permit I.D.: NPDES
Status (Pending-
☐ No issue date-etc.) Issued 2IK00037
☐ N/A Source: OEPA

Contact the Ohio Department of Agriculture, Livestock Environmental Permitting Program at (614) 387-0470, or the ODA web site at <http://www.agri.ohio.gov/divs/LEPP/Lepp.aspx> for assistance or more information.

For NPDES purposes, please note: Agricultural activities which are subject to this permit are generally reported under one or more of the following North American Industry Classifications (NAIC) [formerly referred to as SIC codes] as found in the 2002 NAIC Manual:

NAIC 112112	Beef	NAIC 112210	Swine
NAIC 112410	Sheep/Goats	NAIC 112120	Dairy
NAIC 112320	Broilers	NAIC 112310	Eggs, Layers, Starter Pullets
NAIC 112330	Turkeys	NAIC 112340	Pullets, Hatchery
NAIC 112390	Horses	NAIC 112920	Horses

CONFIDENTIAL INFORMATION

Rule 901:10-1-05 of the Ohio Administrative Code allows an applicant to submit a claim of "trade secret" or "confidential business information" as Ohio law defines these terms. **It is the applicant's responsibility to provide detailed information and supporting reasons for making such a claim before the application is submitted.** It is the applicant's responsibility to mark the information or the pages or to otherwise describe in detail those parts of the application and supporting documents and enclosures for which the claim of confidentiality is sought. If the Director agrees with the reasons provided with the claim, then the information will be managed by ODA as "confidential," but with certain exceptions that are also set forth in Rule 901:10-1-05. The Director's decision with respect to a claim of confidentiality may be subject to legal challenge in Ohio under Ohio's public records laws.

CERTIFIED LIVESTOCK MANAGER

Are you applying for a Permit to Install or a Permit to Operate for a Major Concentrated Animal Feeding Facility (MCAFF)? [See Ohio Revised Code 903.01(N)].

☐ Yes ☒ No

If "Yes," you are required to employ a Certified Livestock Manager. Please complete Form 3900-CLM-002 CERTIFIED LIVESTOCK MANAGER or provide a copy of your CLM certificate.

LOCAL NOTIFICATION

1. If you are submitting a PTI application, you must provide documentation or correspondence that verifies you have notified local officials, including the Board of County Commissioners, the county engineer, and the Board of Township Trustees (where the facility is, or will be located) to address infrastructure needs and financing of that infrastructure). This notification must include the following information [see Rule 901:10-1-02(A)(7)]:
 - (a) The anticipated travel routes of motor vehicles to and from the facility;
 - (b) Notwithstanding any exemptions that may be applicable under section 5577.042 of the Revised Code, the anticipated number and weights of motor vehicles traveling to and from the facility with an estimated maximum overall gross weight of vehicles upon the road surface;
 - (c) Operational needs of the proposed facility for access to roads and location of such access; and
 - (d) Operational needs of the proposed facility for access to tiles, culverts, off-site drainage, rights-of-way for manure transport.
2. If you propose to establish a new MCAFF, expand an existing MCAFF's design capacity by ten percent or more, or expand an existing AFF or CAFF to an MCAFF, you are required to submit written statements from the Board of County Commissioners of the county and the Board of Township Trustees of the township in which the facility is or will be located, certifying that, in accordance with sections 307.204 and 505.266 Of the Ohio Revised Code, you have provided these boards with the required written notification and that final recommendations, if any, regarding improvements and costs of improvements have been made by the boards. [Rule 901:10-1-02(A)(6)]

Use the Local Notification Form in completing this process.

COMPLIANCE INFORMATION

Have you owned or operated a CAFF in Ohio for at least two of the five years immediately preceding the submission of this permit application?

☒ Yes ☐ No

If "Yes," you are required to provide the following information:

PERMIT INFORMATION	
Permit Type:	Permit to Operate, Permit to Install
Permit Issued By:	Ohio Department of Agriculture
Permit Number:	81-110-PTO-001 81-110-PTI-001
Permit Issue Date:	June 7, 2011
FACILITY INFORMATION	
Facility Name:	Blue Stream Dairy, Inc.
Facility Address:	3242 Mentzer Church Road, Convoy, OH 45832
County:	Van Wert
Owner/Operator Name:	Blue Stream Dairy, Inc.

If "No," please complete the Form – **Compliance Information** – and enclose with this permit application.

TYPES OF ANIMAL CONFINEMENT BUILDINGS

INSTRUCTIONS: Complete the following two charts for 1) Types of Animal Confinement Buildings and 2) Total Design Capacity. If these forms do not provide enough space for the required information, then please make copies/duplicates of the forms to complete your application. [Rule 901:10-2-01(C)(2)]

The information to be provided here for Total Design Capacity is for regulatory purposes only. This information is to be used to assess how the facility "fits" into the regulatory program described in Chapter 903 of the Ohio Revised Code for large livestock facilities. These forms are not to be used to calculate manure production.

Provide the total design capacity of each building:					
Building Identification (state Existing, Remodeled or Proposed):	1 North Freestall Barn	2 Center Special Needs Barn	3 South Freestall Barn	4 Proposed Freestall Barn	
Total Confinement (Enclosed):	496	181	573	750	
Partial Confinement (Open and Enclosed):					
Open Lot:					
Other					
Other					
Other					

For existing facility, provide building identification (i.e.: Barn 1, Finisher 1, Freestall 1, etc.) and state whether it is an existing, remodeled or proposed barn. If design capacity of an existing or remodeled barn will be revised with this application, state existing population = "X" and proposed population = "Y" in the appropriate boxes. If the application is for a "modification" of the facility, be sure to check the definition of a "modification" in Rule 901:10-1-01 and then submit **ALL** required information below. The site map provided with the application shall clearly identify each housing building listed above and shall have the same name/identification as in this table.

ANIMAL CAPACITY

NOTE: Proposed Design Capacity means the total number of stalls or total animal design capacity for the facility upon the completion of construction of a Permit authorizing installation of additional design capacity. If no additional design capacity is proposed, the column for Existing Design Capacity only needs to be completed.

Animal Type	Minimum Design Capacity CAFF/MCAFF	Existing Design Capacity (Leave blank if new)	Proposed Design Capacity
CATTLE			
• Slaughter/Feeder/Heifer	1,000/10,000		
• Mature Cow (Milked/Dry)	700/7,000	1,250	2,000
• Veal	1,000/10,000		
SWINE			
• Over 55 Pounds	2,500/25,000		
• Under 55 Pounds	10,000/100,000		
HORSE			
• Horse	500/5,000		
SHEEP			
• Sheep or Lamb	10,000/100,000		
TURKEYS			
• Turkey	55,000/550,000		
CHICKENS			
• Laying Hen	82,000/820,000		
• Pullet or Broiler	125,000/1,250,000		
DUCKS			
• Duck	35,000/350,000		
OTHER			

PAYMENT REQUIRED

Remittance of the appropriate fee(s) must be enclosed and made payable to: Ohio Department of Agriculture. Payment by check or money order only:

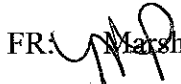
Permit to Install	\$2,250
Permit to Operate	\$1,000
Permit Modification	\$1,000
Permit Transfer	\$500
Major Operational Change	\$500
Certified Livestock Manager	\$50

Payment Method: ☐ Money Order ☒ Check Number: 001052

Amount Enclosed: \$ 3,250.00

MEMORANDUM TO PERMIT FILE

TO: Kevin Elder, Executive Director

FR:  Marsha Perge, Paralegal

RE: Report on Compliance History for Blue Stream Dairy, Inc.

DA: May 24, 2012

Applicant Information

Owner/Operator:

Blue Stream Dairy, Inc.
220 South Elizabeth Street
P.O. Box 126
Spencerville, OH 45887

Facility:

Blue Stream Dairy
3242 Mentzer Church Road
Convoy, OH 45832

Conclusion

Summary

The applicant was reviewed as required by Division (B) of Section 903.05 of the Revised Code. The applicant has operated this facility in Ohio during at least two of the previous five years and was recently issued a renewal permit to operate on June 7, 2011. The facility has been inspected twice since the issuance of permits on June 7, 2011. The Ohio Department of Agriculture (ODA) Division of Livestock Environmental Permitting (DLEP) conferred with the Ohio Environmental Protection Agency (Ohio EPA), the Van Wert County Soil and Water Conservation District (SWCD), and the ODA Division of Animal Industry regarding the compliance history of Blue Stream Dairy, Inc., who owns and operates the facility known as Blue Stream Dairy. Based on reports from Ohio EPA, the Van Wert County SWCD, and the ODA Division of Animal Industry, ODA concludes that there are no substantial issues of noncompliance regarding Blue Stream Dairy, Inc.

The Following Statute and Regulation Are At Issue

Section 903.05(A) of the Ohio Revised Code (R.C.) provides that each application for a permit to install (PTI) or permit to operate (PTO) that is submitted by an applicant who has not operated a concentrated animal feeding facility (CAFF) in the state of Ohio for at least two of the five years immediately preceding the submission of the application shall be accompanied by the following:

- 1) A list of all AFFs the owner or operator has operated or is operating in the state of Ohio during the five-year period immediately preceding the submission of the application;
- 2) A list of the AFFs the owner or operator has operated or is operating elsewhere in the United States and that are regulated under the Federal Water Pollution Control Act (FWPCA) together with a list of the AFFs that the owner or operator has operated or is operating outside of the United States during the five-year period immediately preceding the submission of the application; and
- 3) A list of all administrative enforcement orders issued to the owner or operator, all civil actions in which the owner or operator was determined by the trier of fact to be liable in damages or was the subject of injunctive relief or another type of civil relief, and all criminal actions in which the owner or operator pleaded guilty or was convicted, during the five years immediately preceding the submission of the application, in connection with any violation of the FWPCA, the Safe Drinking Water Act (SDWA), or any other applicable state laws pertaining to environmental protection that was alleged to have occurred or to be occurring at any AFF that the owner or operator has operated or is operating in the United States or with any violation of the environmental laws of another country that was alleged to have occurred or to be occurring at any AFF that the owner or operator has operated or is operating outside the United States.

Rule 901:10-1-03(B)(1) of the Ohio Administrative Code (OAC) provides that the director may deny, suspend, or revoke a PTI or PTO if the applicant and persons associated with the applicant in the operation of an AFF has a history of substantial noncompliance with the FWPCA, the SDWA, and any other applicable state laws pertaining to environmental protection or environmental laws of another country that indicates that the applicant lacks sufficient reliability, expertise, and competence to operate the proposed new or modified facility in substantial compliance with Chapter 903 of the Revised Code and the rules.

In evaluating a history of substantial noncompliance as required, the Director may consider:

- 1) Any information submitted on ownership and background pursuant to rule 901:10-1-02 of the OAC;
- 2) Any administrative enforcement action (including an administrative order or notice of violation), civil suit, or criminal proceeding that is:
 - a) Pending against the applicant or a business concern owned or controlled by the applicant;
 - b) Resolved or dismissed in a settlement agreement, in a consent order or decrees, is adjudicated or otherwise dismissed and that may or may not have resulted in the imposition of:
 - A sanction such as a fine, penalty, payment or work or service performed in lieu of a fine or penalty; or
 - Cessation or suspension of operations.

- c) Any revocation, suspension, or denial of a license or permit or equivalent authorization; or
- d) Any explanation that the applicant may choose to submit about the background information submitted.

Background History

Blue Stream Dairy, Inc. owns and operates an existing dairy that has been permitted as a concentrated animal feeding facility (CAFF) as defined in ORC 903.01. The facility is located at 3242 Mentzer Church Road, Convoy, Ohio 45832. Blue Stream Dairy, Inc. has applied for a modified permit to install and modified permit to operate that will expand this existing facility by 750 head of mature dairy cows. No additional manure storage will be constructed. The company reports that it currently is covered under an NPDES permit issued by Ohio EPA.

The officers of Blue Stream Dairy, Inc. are Charles D. Moeller, Richard Whitling, and John Stepleton. Curt Baker continues as the primary contact person for operations at the facility.

During the past five years, and the year in which the facility has been issued a permit to install and a permit to operate, Blue Stream Dairy, Inc. has not been the subject of administrative enforcement actions for any violations connected with environmental laws, nor is any administrative enforcement action pending against the facility. During the past five years, Blue Stream Dairy, Inc. has had no criminal or civil actions for any violations connected with environmental laws, nor is any such action pending. During the past five years, Blue Stream Dairy, Inc. has not been held liable in any civil or criminal actions in connection with any violation of any laws pertaining to the Federal Water Pollution Control Act, the Safe Drinking Water Act, or any other applicable state or federal laws pertaining to environmental protection.

End of Report



ADDITIONAL OWNER/OPERATOR INFORMATION FOR CORPORATIONS, LIMITED LIABILITY COMPANIES, AND LIMITED LIABILITY PARTNERSHIPS

INSTRUCTIONS: Use a separate copy of this form for each corporation, limited liability company, or limited liability partnership that has been identified as an owner, operator, partner or controlling person of the facility on the **General Information Form**. For each of these business entities, all officers, directors, partners, members, or others that have a right to control or in fact control management of the business entity or the selection of officers, directors or managers of the business entity must be listed below. If more space is needed, attach a separate piece of paper with the required information.

NAME OF BUSINESS ENTITY: Blue Stream Dairy, Inc.

Check one or both:

☒ Name of Owner

☒ Name of Operator

Officer/Member 1:

Name: Charles D. Moeller
Title: President
Address: P.O. Box 126 220 S. Elizabeth Street
Spencerville State: OH Zip Code: 45887
City: Phone: (419)-647-4191 Fax: (419)-647-4202 Cell: None
Email: None

Officer/Member 2:

Name: Richard Whitling
Title: COO
Address: P.O. Box 124 200 E. North Street
Spencerville State: OH Zip Code: 45887
City: Phone: (419)-647-4172 Fax: (419)-647-4202 Cell: (419)-303-8753
Email: rwhitling@flexiblefoam.com

Officer/Member 3:

Name: John S. Stepleton
Title: Secretary-Treasurer
Address: P.O. Box 126 220 S. Elizabeth Street
Spencerville State: OH Zip Code: 45887
City: Phone: (419)-647-4191 Fax: (419)-647-4202 Cell: 419-303-0123
Email: jstepleton@flexiblefoam.com

RECEIVED

MAR 09 2012

Ohio Department of Agriculture
Livestock Environmental Permitting
Additional Owner/Operator Information
(LEPP 3900-001b)
May 2009
Page 1 of 2

Officer/Member 4:

Name: _____
Title: _____
Address: _____
City: _____ State: _____ Zip Code: _____
Phone: _____ Fax: _____ Cell: _____
Email: _____

Officer/Member 5:

Name: _____
Title: _____
Address: _____
City: _____ State: _____ Zip Code: _____
Phone: _____ Fax: _____ Cell: _____
Email: _____

RECEIVED
MAR 09 2012

Ohio Department of Agriculture
Livestock Environmental Permitting
Additional Owner/Operator Information
(LEPP 3900-001b)
May 2009
Page 2 of 2

COMPLIANCE INFORMATION

Submittal of a Compliance Information Form is necessary to fulfill the requirements of Section 903.05 of the Ohio Revised Code (ORC) and rules 901:10-1-02, 901:10-1-03, and 901:10-1-08 of the Ohio Administrative Code (OAC). A Compliance Information Form shall be used by any person applying for a permit to install or permit to operate or for a transfer of an existing permit, under these sections.

Rules 901:10-1-02 and 901:10-1-03 of the OAC and Section 903.05 of the ORC require that all applicants seeking to own or operate a concentrated animal feeding facility (CAFF) fill out a Compliance Information Form if they have not operated a CAFF in the state of Ohio for two of the last five years immediately preceding the permit application. If an applicant seeks to purchase or acquire a previously permitted CAFF pursuant to 903.05(C) and rule 901:10-1-08, the applicant must complete the Compliance Information Form before the CAFF permit can be transferred to the applicant. In addition to the Compliance Information Form, an applicant may submit additional information explaining the applicant's record of environmental compliance. The Department is interested in information that demonstrates competence, reliability, and expertise in the operation of animal feeding facilities.

Applicants should recognize that the Department may verify the information submitted on this form by conferring with other Divisions within the Department of Agriculture as appropriate, e.g., with the Dairy Division or Division of Animal Industry. In addition, the Director may contact the United States Environmental Protection Agency, the Ohio Environmental Protection Agency, the Ohio Department of Natural Resources, local Soil and Water Conservation Districts, other states' regulatory agencies, local health departments, and other appropriate government agencies in other countries to confirm the applicants' compliance history. To expedite the Director's review and verification, the owner, operator, or applicant must submit copies of any documents pertaining to enforcement actions—whether administrative, civil, or criminal—and related compliance information.

A permit to install or permit to operate or an application to transfer a permit can be denied because of the compliance history of the applicant or persons associated with the applicant in the operation of animal feeding facilities. Even if the applicant has operated a concentrated animal feeding facility in Ohio for two of the past five years immediately preceding the application, the Director can deny a new or renewal permit in accordance with Section 903.05(B) of the ORC. If information is submitted to the Director or if the Director obtains other information that the applicant and persons associated with the applicant have a history of substantial noncompliance that indicates that the person lacks sufficient reliability, expertise, and competence to operate the concentrated animal feeding facility in substantial compliance with ORC Chapter 903 or the rules adopted under it, the Director may deny the permit or transfer application. The Director shall deny the permit if the application contains false or misleading information.

For new facilities, a copy of the final report on Compliance Information will become part of the Permit.

The following sections are required for the Compliance Information Form:

- PART 1: APPLICANT'S NAME AND ADDRESS
- PART 2: OTHER ANIMAL FEEDING FACILITIES (IN OHIO ONLY)
- PART 3: OTHER ANIMAL FEEDING FACILITIES (OUTSIDE OHIO; IN U.S.)
- PART 4: OTHER ANIMAL FEEDING FACILITIES (OUTSIDE THE U.S.)
- PART 5: COMPLIANCE RECORD
- PART 6: SIGNATURE AND AUTHORIZATION

INSTRUCTIONS: Applicants for permits to install and permits to operate must complete a separate Compliance Information Form (LEPP-3900-002) for each person identified on General Information Forms. For permit transfers, a copy of this form must be completed for each transferee (permit transferees may find it helpful to also use General Information Forms to organize their submittal). If more space is needed to answer any question, attach a separate piece of paper with the required information.

FORM LEPP-3900-002, PART 1: COMPLIANCE INFORMATION

APPLICANT'S NAME AND ADDRESS

Name: Blue Stream Dairy, Inc.
 Address: 220 South Elizabeth Street, P.O. Box 126
 City: Spencerville State: OH Zip Code: 45887
 Telephone: (419)-647-4191 Fax Number: (866)-862-8815
 E-mail (if available): jstepleton@flexiblefoam.com

FORM LEPP-3900-002, PART 2: COMPLIANCE INFORMATION

ANIMAL FEEDING FACILITIES (IN OHIO ONLY)

List the AFFs or CAFFs that you have operated (during the five-year period immediately preceding the submission of the current permit application) or are operating **in Ohio**.

Name of AFF or CAFF	Location Address	County	Permit ID(s)	Date
Blue Stream Dairy	3242 Mentzer Church Rd. Convoy, OH 45832	Van Wert	81-110-PTO-001 81-110-PTI-001	June 7, 2011

OTHER ANIMAL FEEDING FACILITIES (OUTSIDE OHIO; IN U.S.)

List the AFFs or CAFFs that you have operated (during the five-year period immediately preceding the submission of the current permit application) or are operating elsewhere **in the United States and that are regulated under the Federal Water Pollution Control Act.**

N/A

Name of AFF or CAFF	Location Address	County	Permit ID(s)	Date

OTHER ANIMAL FEEDING FACILITIES (OUTSIDE THE U.S.)

List the AFFs or CAFFs that you have operated **outside the United States** during the five-year period immediately preceding the submission of the current permit application.

N/A

Name of AFF or CAFF:	Applicant's Date of Birth:	
Farm Address:		
Country:	State/Province:	
Agency of Regulation:		
Agency Address:		
Permit ID:	Date Affiliated:	
Name of AFF or CAFF:	Applicant's Date of Birth:	
Farm Address:		
Country:	State/Province:	
Agency of Regulation:		
Agency Address:		
Permit ID:	Date Affiliated:	
Name of AFF or CAFF:	Applicant's Date of Birth:	
Farm Address:		
Country:	State/Province:	
Agency of Regulation:		
Agency Address:		
Permit ID:	Date Affiliated:	
Name of AFF or CAFF:	Applicant's Date of Birth:	
Farm Address:		
Country:	State/Province:	
Agency of Regulation:		
Agency Address:		
Permit ID:	Date Affiliated:	

COMPLIANCE RECORD

List all administrative enforcement actions issued to you, all civil actions in which you have determined by the trier of fact to be liable in damages or were the subject of injunctive relief or another type of civil relief, and all criminal actions in which you pleaded guilty or were convicted during the five years immediately preceding the submission of this permit application in connection with any violation of the Clean Water Act, the Safe Drinking Water Act or any other applicable state laws pertaining to environmental protection that was alleged to have occurred or to be occurring at any AFF that you have operated or are operating in the United States or with any violation of the environmental laws of another country that was alleged to have occurred or to be occurring at any AFF that you have operated or are operating outside the United States.

"Administrative Enforcement Action" means any administrative orders, notices of violation letters, and letters that serve as notices of deficiencies that result in noncompliance.

ADMINISTRATIVE ENFORCEMENT ACTIONS

☒ None.

☐ Pending:

☐ Resolved:

☐ Dismissed:

CIVIL ACTIONS

☒ None.

☐ Pending:

☐ Resolved:

☐ Dismissed:

CRIMINAL ACTIONS

☒ None.

☐ Pending: _____

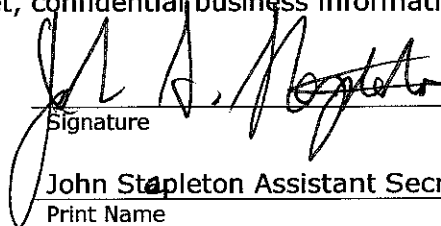
☐ Resolved: _____

☐ Dismissed: _____

FORM LEPP-3900-002, PART 6: COMPLIANCE INFORMATION

SIGNATURE AND AUTHORIZATION

"I authorize the Soil and Water Conservation District having authority over any operation or facility identified above to disclose to the Ohio Department of Agriculture any and all information that may be on file with the local Soil and Water District and the Division of Soil and Water within the Ohio Department of Natural Resources. I understand that I may claim confidentiality for any information in the local or division files if that information is a trade secret, confidential business information, or confidential financial information."


Signature
John Stapleton Assistant Secretary/Treasurer
Print Name

1/27/2012
Date Signed

NOTE: You may submit any explanation pertaining to the above actions for consideration by the Director. This may include discussion of notices of violation letters or related government correspondence, fines, penalties paid, or work or services performed in place of fines or penalties.

☐ Check if you are enclosing additional information.

Blue Stream Dairy, Inc.

3242 Mentzer Church Road
Convoy, OH 45832

January 23, 2012

Van Wert County Commissioners
114 E. Main Street, Suite 200
Van Wert, OH 45891

Dear Commissioners:

This notification is intended to meet the requirements of Rule 901:10-1-02 of the Ohio Administrative Code (OAC). The OAC rule requires that notification be given to local County Commissioners, Township Trustees and the County Engineer when a dairy farm is planning to install, build, or expand over 700 cows.

Blue Stream Dairy currently is permitted by the Ohio Department of Agriculture under its Livestock Environmental Permitting Program. The dairy facility is located at 3242 Mentzer Church Road, Convoy, OH 45832. The dairy will be applying to the Ohio Department of Agriculture for their approval to increase the number of cows from 1,250 to 2,000 mature dairy cows.

For the expanded dairy we estimate there will be 9 commodity feed trucks per week at an estimated average overall gross weight of 60,000 pounds and 11 tractors for milk per week at an estimated maximum gross weight of 80,000 pounds. In addition, there will be seasonal trucks carrying silage feed to the dairy. These trucks will primarily travel on Feasby-Wisener Road to the dairy entrance, see attached map.

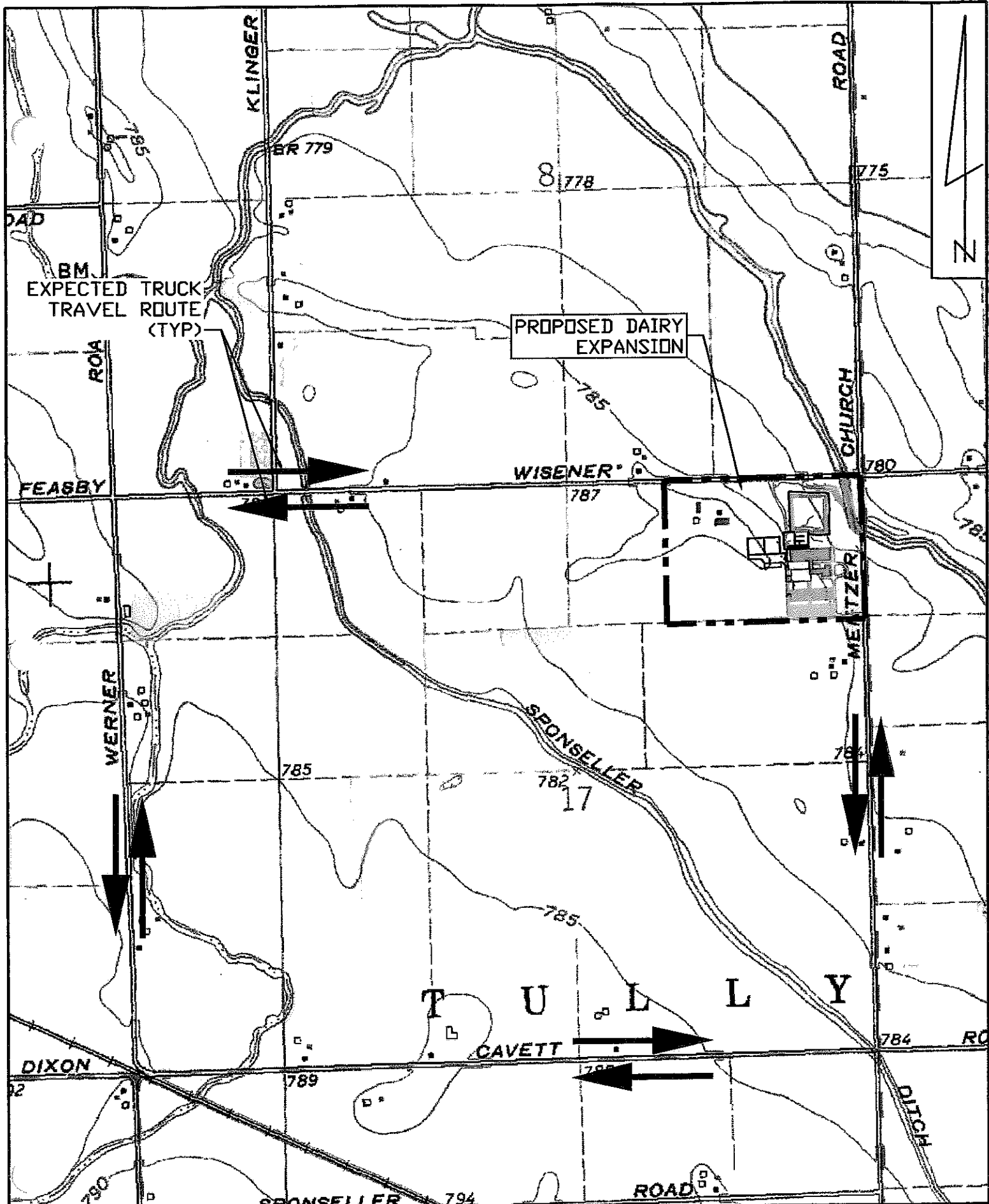
If you have any questions, I can be reached at:

Blue Stream Dairy
3242 Mentzer Church Road
Convoy, OH 45832
Telephone: (419)-647-4191

Sincerely,
Blue Stream Dairy

Jon Morrison

Attachment:
Travel Route Map



PROPOSED DAIRY
EXPANSION

BM
EXPECTED TRUCK
TRAVEL ROUTE
(TYP)

BLUE STREAM DAIRY

27 of 189

TRAVEL ROUTE MAP

81-110-PTI-002

6657 FRANK AVE. N.V.
Suite 200
N.Canton, Ohio 44720
330 - 494 - 8888
Fax 330 - 494 - 8889

SCALE: NOT TO SCALE

DATE: 1-23-12

DWG: BST001-ROUTE-110

PTO-002

FINAL PERMIT

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Van Wert County Commissioners
114 E Main Street Suite 200
Van Wert OH 45891

2. Article Number

(Transfer from service label)

7007 1490 0004 0249 9202

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

☐ Agent☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? ☐ YesIf YES, enter delivery address below: ☐ No

3. Service Type

☒ Certified Mail☐ Express Mail☐ Registered☐ Return Receipt for Merchandise☐ Insured Mail☐ C.O.D.

4. Restricted Delivery? (Extra Fee)

☐ Yes

U.S. Postal Service

CERTIFIED MAIL RECEIPT

(Domestic Mail Only. No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

OFFICIAL USE

Postage \$

Certified Fee

Return Receipt Fee
(Endorsement Required)Restricted Delivery Fee
(Endorsement Required)

Total Postage

Postmark
Here

Sent To

Van Wert County Commissioners

Street, Apt.
or PO Box

114 E Main Street Suite 200

City, State

Van Wert OH 45891

PS Form 3809, August 2003

See reverse for instructions

Blue Stream Dairy, Inc.
3242 Mentzer Church Road
Convoy, OH 45832

January 23, 2012

Tully Township Trustees
Van Wert County
6020 Lare Road
Convoy, OH 45832

Dear Trustees:

This notification is intended to meet the requirements of Rule 901:10-1-02 of the Ohio Administrative Code (OAC). The OAC rule requires that notification be given to local County Commissioners, Township Trustees and the County Engineer when a dairy farm is planning to install, build, or expand over 700 cows.

Blue Stream Dairy currently is permitted by the Ohio Department of Agriculture under its Livestock Environmental Permitting Program. The dairy facility is located at 3242 Mentzer Church Road, Convoy, OH 45832. The dairy will be applying to the Ohio Department of Agriculture for their approval to increase the number of cows from 1,250 to 2,000 mature dairy cows.

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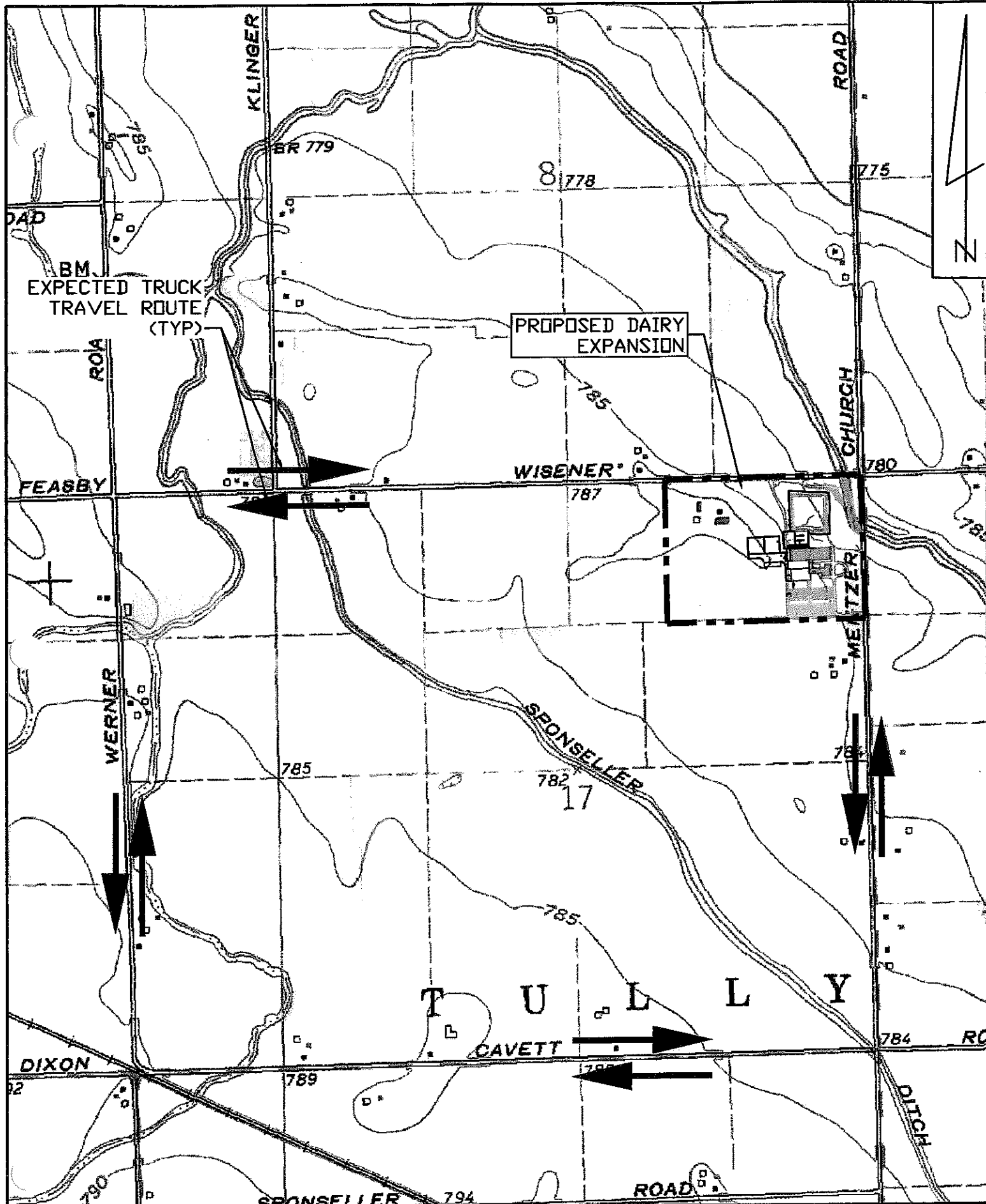
If you have any questions, I can be reached at:

Blue Stream Dairy
3242 Mentzer Church Road
Convoy, OH 45832
Telephone: (419)-647-4191

Sincerely,
Blue Stream Dairy

Jon Morrison

Attachment:
Travel Route Map



BLUE STREAM DAIRY

30 of 189 TRAVEL ROUTE MAP

81-110-PTI-002

SCALE: NOT TO SCALE

DATE: 1-23-12

DWG: BST001-ROUTE-110-PTO-002

FINAL PERMIT

6657 FRANK AVE. N.W.
Suite 200
NCanton, Ohio 44720
330 - 494 - 8888
Fax 330 - 494 - 8889

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<p> <input checked="" type="checkbox"/> Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. <input checked="" type="checkbox"/> Print your name and address on the reverse so that we can return the card to you. <input checked="" type="checkbox"/> Attach this card to the back of the mailpiece, or on the front if space permits. </p> <p>1. Article Addressed to:</p> <p style="text-align: center; margin-top: 20px;"> Tully Township Trustees Van Wert County 6020 Lare Road Convoy OH 45832 </p> <p>2. Article Number (Transfer from service label) 7005 1160 0004 9999 1348</p>	<p>A. Signature X <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) C. Date of Delivery</p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p> <p>3. Service Type <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D. </p> <p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>
PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540	

U.S. Postal Service CERTIFIED MAIL RECEIPT (Domestic Mail Only. No Insurance Coverage Provided)											
For delivery information visit our website at www.usps.com											
OFFICIAL USE											
<div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: 0.8em; margin-right: 5px;"> PLACE STICKER AT TOP OF ENVELOPE OR FRONT OF THE RETURN ADDRESS FOLD AT DOTTED LINE </div> <div style="text-align: center;"> </div> <div style="margin-left: 10px;"> 7005 1160 0004 9999 1348 7005 1160 0004 9999 1348 </div> </div>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Postage</td> <td style="width: 50%;">\$</td> </tr> <tr> <td>Certified Fee</td> <td style="text-align: center;">2.30</td> </tr> <tr> <td>Return Receipt Fee (Endorsement Required)</td> <td></td> </tr> <tr> <td>Restricted Delivery Fee (Endorsement Required)</td> <td></td> </tr> <tr> <td colspan="2">Total Postage & Fees</td> </tr> </table> <p style="text-align: center; margin-top: 10px;">Postmark Here</p>	Postage	\$	Certified Fee	2.30	Return Receipt Fee (Endorsement Required)		Restricted Delivery Fee (Endorsement Required)		Total Postage & Fees	
Postage	\$										
Certified Fee	2.30										
Return Receipt Fee (Endorsement Required)											
Restricted Delivery Fee (Endorsement Required)											
Total Postage & Fees											
<p>Sent To Tully Township Trustees</p> <p>Street, Apt. or PO Box Van Wert County</p> <p>City, State 6020 Lare Road</p> <p>Convoy OH 45832</p>											

Blue Stream Dairy, Inc.

3242 Mentzer Church Road
Convoy, OH 45832

January 23, 2012

Mr. Kyle J. Wendel P.S., P.E.
Van Wert County Engineer
220 S. Market Street
Van Wert, OH 45891

Dear Mr. Wendel:

This notification is intended to meet the requirements of Rule 901:10-1-02 of the Ohio Administrative Code (OAC). The OAC rule requires that notification be given to local County Commissioners, Township Trustees and the County Engineer when a dairy farm is planning to install, build, or expand over 700 cows.

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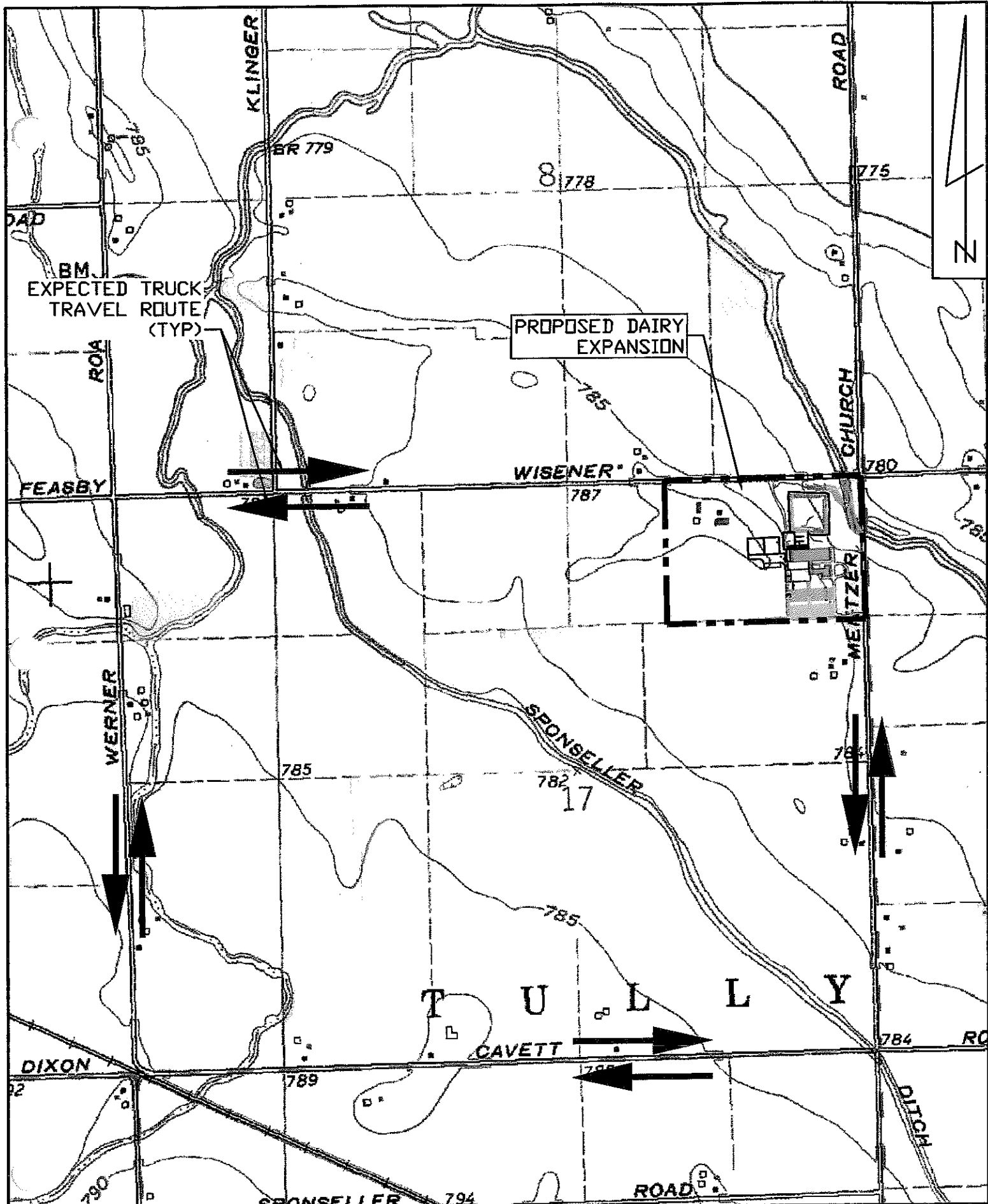
If you have any questions, I can be reached at:

Blue Stream Dairy
3242 Mentzer Church Road
Convoy, OH 45832
Telephone: (419)-647-4191

Sincerely,
Blue Stream Dairy

Jon Morrison

Attachment:
Travel Route Map



BLUE STREAM DAIRY

33 of 189

TRAVEL ROUTE MAP

81-110-PTI-002

SCALE: NOT TO SCALE

DATE: 1-23-12

DWG: BST001-ROUTE

110-PTO-002

FINAL PERMIT

6657 FRANK AVE. N.V.
Suite 200
NCanton, Ohio 44720
330 - 494 - 8888
Fax 330 - 494 - 8889

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 		A. Signature X <div style="float: right;"> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee </div>	
		B. Received by (Printed Name)	C. Date of Delivery
1. Article Addressed to: Mr. Kyle J Wendel P.S., P.E. Van Wert County Engineer 220 S Market Street Van Wert OH 45891		D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No	
		3. Service Type <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.	
		4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes	
2. Article Number (Transfer from service label)		7005 1160 0004 9999 1355	
PS Form 3811, February 2004		Domestic Return Receipt	
		102595-02-M-1540	

U.S. Postal Service™ CERTIFIED MAIL™ RECEIPT (Domestic Mail Only; No Insurance Coverage Provided)	
For delivery information visit our website at www.usps.com	
OFFICIAL USE	
Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$
Postmark Here	
Sent To Mr. Kyle J Wendel P.S., P.E. Van Wert County Engineer 220 S Market Street Van Wert OH 45891	
PS Form 3811, February 2004	

PERMIT TO INSTALL

The following sections are required for the Permit to Install:

- PART 1: MANURE STORAGE OR TREATMENT FACILITIES RECORD - [Rule 901:10-2-04]
- PART 2: WATER QUANTITY INFORMATION - [Rule 901:10-2-01(C)(3)]
- PART 3: GROUND WATER QUALITY RECORD - [Rules 901:10-2-01(C)(6), 901:10-2-03(A) and 901:10-2-03(B)]
- PART 4: CONSTRUCTION AND OPERATION DATES - [Rule 901:10-2-01(C)(7)]
- PART 5: SITING CRITERIA FOR MANURE STORAGE OR TREATMENT FACILITIES - [Rule 901:10-2-02]
- PART 6: SITE MAP REQUIREMENTS - [Rule 901:10-2-01(C)(5)]
- PART 7: GEOLOGICAL EXPLORATION REPORT - [Rule 901:10-2-03(C)]
- PART 8: DETAILED ENGINEERING DRAWINGS, DESIGNS, AND PLANS FOR CONSTRUCTION

The General Information Form (LEPP-3900-001) must also be included with any Permit to Install application.

MANURE STORAGE OR TREATMENT FACILITIES RECORD

Complete the chart below for all the manure storage or treatment facilities, both existing and proposed, that are, or are planned, to be located at the facility.

INSTRUCTIONS

Please see Rule 901:10-1-01 for the definitions of "manure storage or treatment facility," "fabricated structure," "manure storage pond," and "manure treatment lagoon." Fabricated structures, manure storage ponds, and manure treatment lagoons are specific types of manure storage or treatment facilities.

- A. **Structure ID:** Provide the manure storage structure identification that is, or will be utilized by the facility for each manure storage or treatment facility. (i.e.: Deep Pit #1, North Pond, etc.)
- B. **Existing or Proposed:** State whether the manure storage or treatment facility is existing or is proposed as part of the application.
- C. **Type of Structure:** Provide a brief description of the structure and identify whether it is a fabricated or earthen structure.
- D. **Total Manure Storage Volume:** Provide the Total Manure Storage Volume in gallons for liquid systems or cubic feet for solid systems. This volume shall be to the maximum operating level, which is the total depth minus the freeboard (which should include the rainfall and runoff from design storm event – See H. Below).
- E. **Minimum Treatment Volume:** Only for manure treatment lagoons – Provide in gallons.
- F. **Dimensions of Storage Structure:** Provide overall dimensions of the structure. For ponds/lagoons, provide dimensions at the maximum operating level.
- G. **Days of Storage:** Days of storage provided to the facility by the structure.
- H. **Freeboard**

Liquid Manure

Manure storage ponds and manure treatment lagoons: 12" plus direct precipitation and runoff from a 100-year, 24-hour storm from any contributing drainage areas.

Fabricated structures: 6" plus direct precipitation and runoff from a 100-year, 24-hour storm from any contributing drainage areas.

Solid Manure

Fabricated structures receiving rainfall: 6" plus direct precipitation and runoff from a 100-year, 24-hour storm from any contributing drainage areas.

Fabricated structures not receiving rainfall: N/A

Provide a detailed calculation sheet that shows annual manure produced, total manure storage volume, days of storage provided and calculation for freeboard required (if necessary) for each manure storage or treatment facility listed in the following chart.

MANURE STORAGE OR TREATMENT FACILITIES RECORD

A.	B.	C.	D.	E.	F.	G.	H.
Structure ID	Existing or Proposed	Type of Structure (Fabricated or Earthen)	Total Manure Storage Volume	Minimum Treatment Volume	Dimensions of Storage Structure	Days of Storage	Freeboard
Manure Storage Pond #1	Existing	Earthen Structure	11,169,056 gal	N/A	340' x 352'	198	1.9'
Manure Storage Pond #2	Existing	Earthen Structure	2,541,794 gal ✓	N/A	111.8' x 413.8'	45	1.5'
Manure Storage Pond #3	Existing	Earthen Structure	3,478,566 gal ✓	N/A	192.9' x 232.7'	62	1.5'
Manure Storage Pond #4	Existing	Earthen Structure	3,435,144 gal ✓	N/A	232.8' x 189.9'	61	1.5'
Settling Basin	Existing	Fabricated Structure	300,000 gal	N/A	120' x 120'	5	1.9'
Sand Storage Pad	Existing	Fabricated Structure	49,000 ft ³	N/A	100' x 70'	N/A	N/A
Manure Solid/Sand Storage Pad	Existing	Fabricated Structure	500 Tons	N/A	20'x120'	270	N/A

WATER QUANTITY INFORMATION

1. How much water will the facility utilize on an average daily basis: 51,000 gallons
2. Please include with this application a detailed description and calculations on determining the water usage above. Include any references used in determining the estimate.
See Attachment A at the end of this section.

3. Please describe the source(s) of the water: On-Site Wells

FORM 3900-PTI-005, PART 3: PERMIT TO INSTALL

GROUND WATER QUALITY RECORD

Ground water sampling for Total Coliform Bacteria and Nitrate (within 1 year):

1. Date Conducted: 10/05/2010 and 1/6/2011
Provide a copy of the lab results
2. Coliform Results (positive/negative): See Attached Letter
See Attached Letter
Nitrate Results (mg/l): _____
3. Please illustrate the location of all well(s) on the Site Map. Rule 901:10-2-01(C)(5). Also, if multiple wells exist, mark the well that was used for the sampling provided above. On the map, include all wells within 1,000 feet of the manure storage or treatment facility and label the wells according to the well number assigned by ODNR-Division of Soil and Water Resources.
See Engineering Plans

FORM 3900-PTI-005, PART 4: PERMIT TO INSTALL

CONSTRUCTION AND OPERATION DATES

1. List the anticipated beginning date of construction: April 2012
July 2012
2. List the anticipated ending date of construction: _____



Sherry Laboratories - Fort Wayne
2121 E. Washington Blvd.
Fort Wayne, IN 46803
TEL: 260-424-1622 FAX: 260-424-9124
Website: www.Sherrylabs.com

Analytical Report

(wastewater)

WO#: 11123668

Date Reported: 1/11/2012

CLIENT: Blue Stream Dairy Inc.

Collection Date: 12/30/2011 7:30:00 AM

Project: Drinking Water - Nitrate

Lab ID: 11123668-001

Matrix: WATER

Client Sample ID 1

Sample Location:

Analyses	Result	RL	Qual	Units	DF	PL	Date Analyzed
NITRATE/NITRITE					E353.2		Analyst: AJE
Nitrogen, Nitrate-Nitrite	< 0.10	0.10		mg/L	1	10	1/5/2012 1:09:04 PM

RECEIVED

MAR 09 2012

Qualifiers:

E	Value above quantitation range
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
RL	Reporting Detection Limit

H	Holding times for preparation or analysis exceeded
M	Manual Integration used to determine area response
PL	Permit Limit
S	Spike Recovery outside accepted recovery limits

Original



Sherry Laboratories - Fort Wayne
2121 E. Washington Blvd.
Fort Wayne, IN 46803
TEL: 260-424-1622 FAX: 260-424-9124
Website: www.Sherrylabs.com

Analytical Report

(wastewater)

WO#: 11123668

Date Reported: 1/11/2012

CLIENT: Blue Stream Dairy Inc.
Project: Drinking Water - Nitrate
Lab ID: 11123668-002
Client Sample ID 2
Sample Location:

Collection Date: 12/30/2011 7:30:00 AM

Matrix: WATER

Analyses	Result	RL	Qual	Units	DF	PL	Date Analyzed
NITRATE/NITRITE					E353.2		Analyst: AJE
Nitrogen, Nitrate-Nitrite	< 0.10	0.10		mg/L	1	10	1/5/2012 1:09:04 PM

RECEIVED

MAR 09 2012

Qualifiers:	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Original



Sherry Laboratories - Fort Wayne
2121 E. Washington Blvd.
Fort Wayne, IN 46803
TEL: 260-424-1622 FAX: 260-424-9124
Website: www.Sherrylabs.com

Analytical Report

(wastewater)

WO#: 12010200

Date Reported: 1/9/2012

CLIENT: Blue Stream Dairy Inc. **Collection Date:** 1/3/2012 9:30:00 AM
Project: Drinking Water - Coliform
Lab ID: 12010200-001 **Matrix:** DRINKING WATER
Client Sample ID 1 East
Sample Location:

Analyses	Result	RL	Qual	Units	DF	PL	Date Analyzed
TOTAL COLIFORM BY P/A					M9223B		Analyst: TSB
Total Coliform Bacteria	ABSENT	1.0	P/A	1	1/3/2012 5:10:00 PM		

Qualifiers:
E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded
M Manual Integration used to determine area response
PL Permit Limit
S Spike Recovery outside accepted recovery limits

RECEIVED
MAR 09 2012

Original



Sherry Laboratories - Fort Wayne
2121 E. Washington Blvd.
Fort Wayne, IN 46803
TEL: 260-424-1622 FAX: 260-424-9124
Website: www.Sherrylabs.com

Analytical Report

(wastewater)

WO#: 12010200

Date Reported: 1/9/2012

CLIENT: Blue Stream Dairy Inc.

Collection Date: 1/3/2012 9:30:00 AM

Project: Drinking Water - Coliform

Lab ID: 12010200-002

Matrix: DRINKING WATER

Client Sample ID 2 West

Sample Location:

Analyses	Result	RL	Qual	Units	DF	PL	Date Analyzed
TOTAL COLIFORM BY P/A					M9223B		Analyst: TSB
Total Coliform Bacteria	ABSENT	1.0	P/A	1	1/3/2012 5:10:00 PM		

Qualifiers:
E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded
M Manual Integration used to determine area response
PL Permit Limit
S Spike Recovery outside accepted recovery limits

Original

SITING CRITERIA FOR MANURE STORAGE OR TREATMENT FACILITIES No new storage structures are proposed

1. Is the production area located wholly or partially in a 100-year flood plain? [Rule 901:10-2-02(G)] ☐ Yes ☐ No

Note: Answering "Yes" to this question will require additional design criteria to be satisfied in Rule 901:10-2-02 to obtain a Permit to Install.

2. Is a fabricated structure, manure storage pond or manure treatment lagoon located wholly or partially in any of the following areas?

Note: Answering "Yes" to 2.a. and 2.b. below will require additional design criteria to be satisfied in Rule 901:10-2-02 to obtain a Permit to Install.

(CHECK ANSWER)

- a. An area of potential subsidence due to an underground mine(s): ☐ Yes ☐ No
-
- b. A karst area with characteristic features, (i.e. sinkholes, sinking streams or caves): ☐ Yes ☐ No
3. A fabricated structure, manure storage pond or manure treatment lagoon is prohibited in the following areas: [Rule 901:10-2-02]
- a. The one-year time-of-travel contour from a well for which the Ohio EPA has delineated or endorsed a ground water source protection area and that serves a community water system not owned or operated by the owner or operator of the facility, or 1000 feet from a public water well, whichever is greater.
- b. The one-year time-of-travel contour from a well for which the Ohio EPA has delineated or endorsed a ground water source protection area and that serves a non-community water system not owned or operated by the owner or operator of the facility. If no delineation or endorsement, then no closer than 300 feet from the well.
- c. A regulatory floodway as designated by FEMA.

For each of these 3 criteria above (3a.-3c.), provide documentation that no manure storage or treatment facility will be located in such an area. (i.e.: if a public water supply is near, within 5 miles of the site, provide the delineated or endorsed ground water protection area for that water supply or if within 1 mile of a major water course, provide the FEMA map showing designated floodway)

4. Will a fabricated structure be located within any of the following?
Note: Answering "Yes" to any of the following may violate the siting criteria listed in Rule 901:10-2-02 or may require additional monitoring or design criteria.

(CHECK ONE)

- a. 300 ft. of a well serving a public water system that is owned or operated by the Owner or Operator of the facility: ☐ Yes ☐ No
- b. 3 ft. (including liner) of bedrock without an aquifer: ☐ Yes ☐ No
- c. 100 ft. of a property line or public road: ☐ Yes ☐ No
- d. 50 ft. of a water well or Class V well: ☐ Yes ☐ No
- f. 120 ft. from a stream – if a CAFF: ☐ Yes ☐ No ☐ N/A
- g. 300 ft. from a stream – if a MCAFF: ☐ Yes ☐ No ☐ N/A
- h. Between the one-year and five-year time-of-travel contours for a well for which the Ohio EPA has delineated or endorsed a ground water source protection area and is identified as highly susceptible (answering Yes will require additional design criteria): ☐ Yes ☐ No
- i. 300 feet from Cold Water Habitat or Seasonal Salmonid Stream: ☐ Yes ☐ No
- j. A 100-year flood plain: ☐ Yes ☐ No
- k. 1500 ft. of a surface water intake: ☐ Yes ☐ No

5. A fabricated structure shall have fifteen vertical feet of low permeability material between the waste placement location and the uppermost aquifer, unless additional design criteria are added, installed, and implemented as approved by the Director.

- a. Depth to uppermost aquifer from the waste placement surface: _____
- b. Feet of low permeability material between the waste placement location and uppermost aquifer: _____
- c. Source of information for determining the depth to aquifer including documents referred to, computations, and a description of field work: _____
- d. Are provisions for ground water monitoring or additional design criteria included as part of the Permit to Install? ☐ Yes ☐ No

6. Is manure storage pond or manure treatment lagoon located within:

Note: Answering "Yes" to any of the following may violate the siting criteria listed in Rule 901:10-2-02 or may require additional monitoring or design criteria.

(CHECK ONE)

- a. 300 ft. of a well serving a public water system that is owned or operated by the owner or operator of the facility: ☐ Yes ☐ No
- b. 3 ft. (including liner) of bedrock without an aquifer: ☐ Yes ☐ No
- c. 100 ft. of a property line or public road: ☐ Yes ☐ No
- d. 300 ft. of a water well, Class V well, or a sinkhole: ☐ Yes ☐ No
- e. 1,500 ft. of a surface water intake: ☐ Yes ☐ No
- f. 300 ft. from a stream – if a CAFF: ☐ Yes ☐ No ☐ N/A
- g. 600 ft. from a stream – if a MCAFF: ☐ Yes ☐ No ☐ N/A

Livestock Environmental Permitting
Permit to Install (LEPP-3900-005)
September 2011
Page 6 of 9

h. Between the one-year and five-year time-of-travel contours for a well for which the Ohio EPA has delineated or endorsed a ground water source protection area and is identified as highly susceptible (answering Yes will require additional design criteria): ☐ Yes ☐ No

i. 600 feet from Cold Water Habitat or Seasonal Salmonid Stream: ☐ Yes ☐ No

j. Within the boundaries of a sole source aquifer as designated by US EPA: ☐ Yes ☐ No

k. A 100-year flood plain: ☐ Yes ☐ No

l. 1,500 feet of a surface water intake: ☐ Yes ☐ No

m. Is there a minimum of 5 feet of low permeability material between the waste placement surface and the uppermost aquifer? ☐ Yes ☐ No

7. A manure storage pond or manure treatment lagoon shall have fifteen vertical feet of low permeable material between the waste placement location and the uppermost aquifer, unless additional design criteria or ground water monitoring are added, installed and implemented as approved by the Director, but in no case shall there be less than five feet of low permeability material between the waste placement surface and the uppermost aquifer.

a. Depth to uppermost aquifer from the waste placement location (in feet): _____

b. Feet of low permeability material between the waste placement location and uppermost aquifer: _____

c. Source of information for determining the depth to aquifer including documents referred to, computations, and a description of field work: _____

d. Are provisions for ground water monitoring or additional design criteria included as part of the Permit to Install? ☐ Yes ☐ No

8. Will a fabricated structure, manure storage pond or manure treatment lagoon that will contain **solid** manure be located closer than:

Note: Answering "Yes" to any of the following may violate the siting criteria listed in Rule 901:10-2-02 or may require additional monitoring or design criteria.

(CHECK ONE)

a. 500 ft. of a neighboring residence – if a CAFF: ☐ Yes ☐ No ☐ N/A

b. 1000 ft. of a neighboring residence – if a MCAFF: ☐ Yes ☐ No ☐ N/A

9. Will a fabricated structure, manure storage pond or manure treatment lagoon that will contain **liquid** manure be located closer than (Rule 901:10-2-02):

(CHECK ONE)

a. 1,000 ft. of a neighboring residence – if a CAFF: ☐ Yes ☐ No ☐ N/A

b. 2,000 ft. of a neighboring residence – if a MCAFF: ☐ Yes ☐ No ☐ N/A

SITE MAP REQUIREMENTS

1. For a concentrated animal feeding facility (CAFF), provide a site map of the location of all manure storage and treatment facilities that demonstrates a 1,000 foot radius surrounding the boundaries of the structure(s).
2. For a major concentrated animal feeding facility (MCAFF), provide a site map of the location of all manure storage and treatment facilities that demonstrates a 2,000 foot radius of surrounding the borders of the structure(s).
3. For both 1 and 2 above, include boundaries of the CAFF or MCAFF, any landmarks such as residences, barns or machine storage that serve as points of reference for boundaries and for locations of manure storage and treatment facilities.
4. For 1 and 2 above, provide overall dimensions of the manure storage or treatment facilities.
5. For 1 and 2 above, show approximate location of known subsurface drainage tiles within 100 feet of the proposed manure storage or treatment facilities.
6. For 1 and 2 above, show the location of well(s) to be used for groundwater sampling.
7. Show any other features identified as siting criteria requirements above on the site map.
8. Show all recorded well logs on file with the Ohio Department of Natural Resources, Division of Soil and Water Resources, that are within a 1,000 foot radius of any manure storage or treatment facility.

GEOLOGICAL EXPLORATION REPORT

No new storage structures are proposed

Please enclose a Subsurface Geological Exploration Report of the soils, subsurface geology and topography of the land area used for the manure storage or treatment facility and describe how the site meets Rule 901:10-2-03. See Rule 901:10-2-03 for additional detail required.

Provide the following information, identifying the Professional Engineer or Engineering Geologist who prepared the Geological Exploration Report (required by Rule 901:10-2-03).

Name: _____
Company: _____
Address: _____
City: _____ State: _____ Zip Code: _____
Phone: _____ Fax: _____ Cell: _____
Email: _____

As part of the Geological Report, include copies of all recorded well logs on file with the Ohio Department of Natural Resources, Division of Soil and Water Resources that are within a 1,000 foot radius of any proposed manure storage or treatment facility.

DETAILED ENGINEERING DRAWINGS, DESIGNS, AND PLANS FOR CONSTRUCTION

Please include design plans and detailed engineering drawings for the construction of the manure storage or treatment facilities. Rules 901:10-2-01(C)(7), 901:10-2-03, and 901:10-2-04 to 901:10-2-06.

PLANS PREPARED BY

Name: David A. Gerdeman, P.E.
Company: North Point Engineering
Address: 6657 Frank Ave. NW, Suite 200
City: North Canton State: OH Zip Code: 44720
Phone: 330-494-8888 Fax: 330-494-8889 Cell: _____
Email: dgerdeman@npecorp.com

Permit to Install

Attachment A

- Water Quantity Utilization Calculations
- Ground Water Sampling Analysis
- Engineering Plans

WATER QUANTITY UTILIZATION CALCULATIONS

Blue Stream Dairy

January 24, 2012

DRINKING WATER AVERAGES

Information from Feeds & Nutrition, ME Ensminger, JE Oldfield WW Heinemann, 1990, The Ensminger Publishing
co, Clovis, Daily Water Consumption by Livestock

	AVERAGE MINIMUM WATER CONSUMPTION (GALLONS)	AVERAGE MAXIMUM WATER CONSUMPTION (GALLONS)	OVERALL AVERAGE CONSUMPTION - PER COW	AMOUNT OF COWS *	AVERAGE CONSUMPTION GALLONS PER DAY	AVERAGE CONSUMPTION GALLONS PER YEAR
LACTATING COW AVERAGE	10	25	17.5	2,000	35,000	12,775,000

*85% of total

OTHER WATER USAGE

	GALLONS PER DAY - PER COW	AMOUNT OF COWS	TOTAL OTHER GALLONS PER DAY	TOTAL OTHER GALLONS PER YEAR
MILKING EQUIPMENT	0	2,000	0	0
PARLOR AREA CLEANUP	0.0	2,000	0	0
WATERERS & SOFTENER	0.0	2,000	0	0
TOTAL OF OTHER WATER USAGE	8.0	2,000	16,000	5,840,000

	GALLONS PER DAY - PER COW	AMOUNT OF COWS	GALLONS USED PER DAY	GALLONS USED PER YEAR	
DRINKING WATER	17.5	2,000	35,000.00	12,775,000	
OTHER WATER	8.0	2,000	16,000.00	5,840,000	
		TOTAL WATER USED PER DAY	51,000	18,615,000	TOTAL WATER USED ANNUALLY

Milk Producer Water Report

Friday, November 19, 2010

Blue Stream Dairy
Charles D. Moeller
PO Box 126
Spencerville, OH 45887

Route Numbers: 290
Patron Numbers: 025

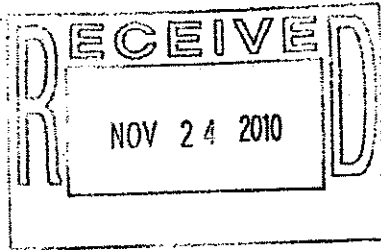
SAMPLE RESULTS

Laboratory Number: 021

Collection Date: 10/05/2010

Supply: 1

Result: ACCEPTABLE



This Report was prepared by the:

Ohio Department of Agriculture
Dairy Division
8995 East Main Street
Reynoldsburg, Ohio 43068

Sanitarian: Gail Rodabaugh

CRYSTAL

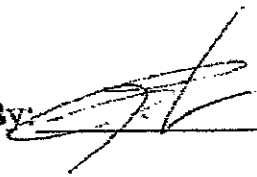
LABORATORIES

1201 Camden Ave, SW * Canton, Ohio 44706
Phone No: 330-454-4222

Laboratory No. 110106021 **Customer:** North Point Engineering
6657 Frank Ave
North Canton, OH 44720

Date Received: 01/06/11
Date Sampled: 01/05/11
Time Sampled: 10:15 am
Identification: Dairy Water Well
Sample Matrix: Water

<u>Analysis</u>	<u>Method</u>	<u>Results</u>	<u>Detection Limits</u>	<u>Date of Analysis</u>
Nitrate/Nitrite	EPA 353.2	2.53 mg/l	0.01 mg/l	01/07/11

Approved By: 

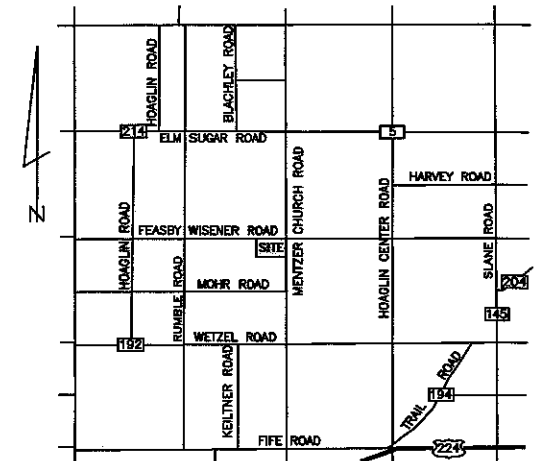
SITE DEVELOPMENT PLANS FOR PROPOSED BLUE STREAM DAIRY EXPANSION

TULLY TOWNSHIP, VAN WERT COUNTY, OHIO

OWNER/APPLICANT:
BLUE STREAM DAIRY, INC.
P.O. BOX 126
220 SOUTH ELIZABETH STREET
SPENCERMILLE, OHIO 45887
PHONE: 419-647-4801
FAX: 866-882-8815

FACILITY:
BLUE STREAM DAIRY
3242 MENTZER CHURCH ROAD
CONVOY, OHIO 45832
CONTACT: JON MORRISON

PLANS PREPARED BY:
NORTH POINT ENGINEERING CORPORATION
6657 FRANK AVENUE NW SUITE 200
NORTH CANTON, OH 44720
PHONE: 330-494-8888
FAX: 330-494-8889
CONTACT: DAVID GERDEMAN, P.E.
dgerdeman@npecorp.com



LOCATION MAP
NOT TO SCALE

SHEET INDEX

DWG NO.	SHEET NO.	DRAWING TITLE
BST005-01	1 OF 2	TITLE SHEET AND SITE PLAN
BST005-02	2 OF 2	MANURE STORAGE CALCULATIONS

SUBMITTED
JANUARY 23, 2012
REVISED
FEBRUARY 28, 2012

LEGEND

---	PROPERTY LINE
---100---	EXISTING CONTOURS FROM SURVEY PERFORMED BY R.D. ZANDER & ASSOCIATES, MARCH 2007

SITE BENCHMARK COORDINATES (WITH F.F. ELEVATIONS)

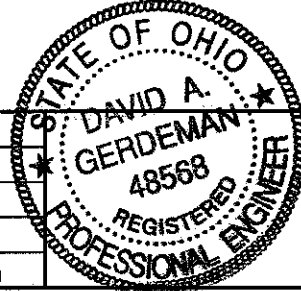
Point No.	Northing (Y)	Eastings (X)	Elev (Z)	Description
30001	479464.055	1342993.048	93.046	0119
40002	479401.380	1342954.299	92.039	0123
40003	478622.896	1342846.735	97.840	0123

2 WORKING DAYS
BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

RECEIVED
MAR 09 2012

ANY AND ALL INFORMATION OR DATA ON THIS DRAWING IS NOT INTENDED OR DESIGNED TO BE SUITABLE FOR REUSE IN ANY MANNER OR BY ANY INDIVIDUAL, FIRM OR CORPORATION ON ANY OTHER PROJECT OR ON ANY OTHER EXTENSIONS OF THIS PROJECT. ANY REUSE OF INFORMATION OR DATA ON THIS SHEET IN ANY MANNER WHATSOEVER WILL BE AT THE USER'S SOLE AND EXCLUSIVE RISK.

SITE MAP
SCALE: 1"=100'



NORTH POINT
ENGINEERING

6657 Frank Ave. N.W.
Suite 200
North Canton, Ohio 44720
330 - 494 - 8888
Fax 330 - 494 - 8889

REG. PROF. ENG. DAVID GERDEMAN, P.E. NO. E-48568
DATE 2-28-12

FINAL PERMIT

REVISIONS

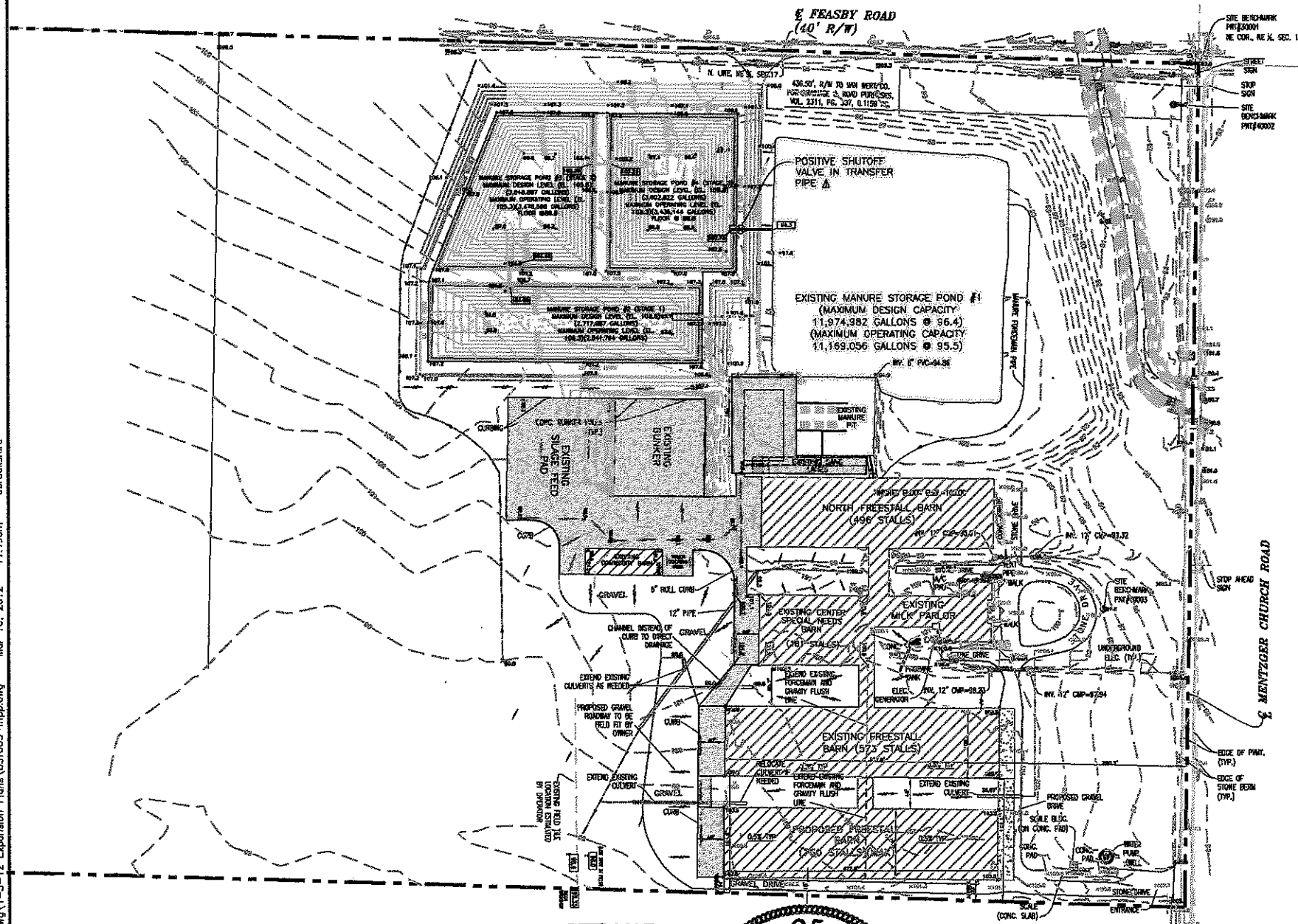
NUMBER	DATE	MADE BY	CHECKED BY	DESCRIPTION
52	189			

DATE: 1-23-12
PREPARED BY: DAG
DRAWN BY: DRB
CHECKED BY: DAG
BST005-01

BLUE STREAM DAIRY, INC.

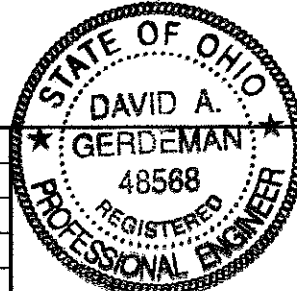
BLUE STREAM DAIRY EXPANSION
TITLE SHEET AND SITE PLAN
TULLY TOWNSHIP, VAN WERT COUNTY, OHIO

1/2



NOT TO SCALE

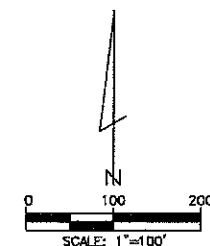
SITE MAP
SCALE: 1"=100'







NORTH POINT

6657 Frank Ave. N.W.
Suite 200
North Canton, Ohio 44720
330 - 494 - 8880
Fax 330 - 494 - 8889

81-110-PTI-002 27872
81-110-PTO-002
REG. PROF. ENG. DAVID A GERDMAN, P.E. LICENSE NO. E-48568 DATE



LEGEND

-  IMPERMEABLE RUNOFF AREA (2.55 ACRES)
 AREA OF PONDS (7.15 ACRES)
 PROPERTY LINE
 EXISTING CONTOURS FROM SURVEY PERFORMED BY R.D. ZANDE & ASSOCIATES, MARCH 2007

Bluestream Dairy Expansion
Mature Volumes
January 23, 2012

1. Dairy Operations

					To Storage Pond	
a. Manure						
Cow Type	Gal/day/cow	x No. of Cows	x Storage Period (days)	=	Gals	
Dry	19.8	300	365	=	1,468,200	(lbs)
Lactating	17.7	1700	365	=	16,882,550	(gals)
						1,468,200
						16,882,550
b. Bedding						
	Density Sand = 102 lbs/cu ft					
Type	Bedding (lb)	x No. of Cows	x Storage Period (days)	=	Total Bedding	
Sand	40	2000	365	=	29,200,000	(lbs)
					298,375	(cu ft)
					2,141,233	(gals)
						107,067
						107,067
Adjusted Bedding to Storage Pond (Assume 95% Recycled Material)						
c. Wash water						
Cow Type	Gal/day/cow	x No. of Cows	x Storage Period (days)	=	Gals	
Dry	8	2000	365	=	5,840,000	(gals)
Lactating	10	1700	365	=	6,240,000	(gals)
						12,080,000
						12,080,000
Total Manure Volume (includes manure, bedding and wash water)					SUBTOTAL	19,415,117

2. Normal Precipitates

a. Average precipitation less evaporation on the storage pond and settling basin

See table below and pond grass section			
Month	Prediction (in)	Evaporation (in)	20 yr avg net (in)
January	2.40	0.70	1.70
February	2.10	0.60	1.50
March	2.00	1.00	1.00
April	2.40	2.00	0.70
May	3.00	4.50	-6.00
June	2.50	5.10	-5.20
July	2.00	5.10	-5.50
August	1.60	4.00	-1.70
September	1.00	2.22	-4.62
October	1.00	2.22	-4.62
November	1.70	1.10	0.50
December	2.50	0.60	1.92
Totals	30.00	32.20	3.20

Collection area	=	7.15	acres (existing ponds and settling basin)(shown in plan)
Total Area	=	7.15	
Net collected	SUBTOTAL	84,871	R ² SUBTOTAL (gals) 634,837

b. Normal runoff from facility into ponds

Total annual average precipitation	=	36.50	inches
Runoff areas are all impermeable surfaces	=	2.89	acres (shown in GREEN on this sheet)
Runoff factor at 62% of precipitation	=	16.43	inches (RAMFPH Figure 100-2)
Total runoff	SUBTOTAL	170.696	ft ³ SUBTOTAL (gals)
			1,343,205

3.100 Year Precipitation

(a) 100-year 2d water stratification on pond #1 surface and settling basin

100-year 24-hour storm	=	5.4	inches	
Pond #1 and Settling Basin area	=	3.42	acres	
Collected precipitation	=	67,539	gallons	
SUBTOTAL	=	67,539	SUBTOTAL	601,451

b. Runoff 100-year 24-hour storm from facility into pond #1

100-year 24-hour storm rainfall	=	6.4	inches
Runoff areas	=	2.88	acres
Runoff Curve Number	=	50	
Runoff	=	5.16	inches from TR-55 Fig 2.1
Total runoff	=	50,598	cu ft
SUBTOTAL	=	50,598	SUBTOTAL (gals) 375,485

4. Silage Lushate Seepage

12. Leachate collection

Seepage	=	1.0	cubic feet per ton of stored silage
Silage storage per acre	=	21500	tons per silage acre
Silage storage area	=	1.00	acres (actual storage area)
Silage Leachate Seepage Value	=	21,500	\$ TOTAL (gas)
			180,620

5. Residual Solids

g. Residual solids			
Depth allowed for residual solids storage	=	12	inches
Floor area of pond	=	2.21	acres (1 existing pond + ponds 2,3 and 4)
Total volume	SUBTOTAL	86,298	ft³ SUBTOTAL (gals) 720,082

PROVIDED STORAGE FOR LINE FOR 365 DAYS (including 500 year items, optional)	units	29.45
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REGISTERED STORAGE VOLUME FOR

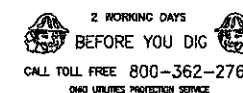
6. 100 Year/24 Hour Storm Rainfall and Runoff			
100 year rain event will be spread over mature pond #1			
Rainfall and Runoff from 100 Year/24 Hour Storm	=	117,387	63 Sections 3a and 3b)
Pond area of Pond #1 (Operating Level)		2.70	acres (existing pond)
Depth needed to store 100 year rainfall and runoff		1.0	ft (difference between design and operating levels for pond #1)

2. Daily Generation Volume

Actual Manure Generation	manure, sand, wash water, normal rainfall and runoff and leachate	20,568,078	gal
Manure generation per day		56,224	gal/day
Days of storage		249	days (conservatively assumed at ponds 1 and 4 only)

8. Total Days Liquid Manure Storage Provided

Existing East Sand Settling Basin Storage days	300,000	gal/at max. operating level 5 days
Existing Manure Pond #1 at MCL Storage days	11,166,055	gal/at max. operating level 189 days
Existing Manure Pond #2 at MCL Storage days	2,641,704	gal/at max. operating level (105.5) 45 days
Existing Manure Pond #3 at MCL Storage days at lower flow thru level (est 104.0)	3,478,866	gal/at max. operating level 82 days
Storage days at lower flow thru level (est 104.0)	3,058,139	gal/at lower flow thru level (est 104.0) 64 days
Existing Manure Pond #4 at MCL Storage days at lower flow thru level (est 103.4)	3,435,144	gal/at max. operating level 81 days
Storage days at lower flow thru level (est 103.4)	2,942,783	gal/at lower flow thru level (est 103.4) 59 days



ANY AND ALL INFORMATION OR DATA ON THIS DRAWING IS NOT INTENDED OR DESIGNED TO BE SUITABLE FOR REUSE IN ANY MANNER OR BY ANY INDIVIDUAL, FIRM OR CORPORATION ON ANY OTHER PROJECT OR ON ANY OTHER EXTENSIONS OF THIS PROJECT. ANY REUSE OF INFORMATION OR DATA ON THIS SHEET IN ANY MANNER WHATSOEVER WILL BE AT THE USER'S SOLE AND EXCLUSIVE RISK.

BLUE STREAM DAIRY, INC.	MAR 19 2012
BLUE STREAM DAIRY EXPANSION	
MANURE STORAGE CALCULATIONS	LIVESTOCK PERMITTING
TULLY TOWNSHIP, VAN WERT COUNTY, OHIO	2/2

PERMIT TO OPERATE

This application is to be used for a Permit to Operate. Please enclose with this application the following forms.

1. Manure Management Plan (Form LEPP-3900-007) - *Rules 901:10-2-08 to 901:10-2-16, 901:10-2-18, 901:10-2-20, 901:10-3-01 and 901:10-3-02, 901:10-3-03 to 901:10-3-06, as appropriate, and 901:10-3-10 and 901:10-3-11*
2. Insect and Rodent Control Plan (Form LEPP-3900-008)– *Rule 901:10-2-19*
3. Mortality Management Plan (Form LEPP-3900-009)– *Rule 901:10-2-15*
4. Emergency Response Plan (Form LEPP-3900-010)– *Rule 901:10-2-17*
5. Operating Record – *Rule 901:10-2-16*
6. Facility Map – Map shall include and identify all manure storage and treatment facilities, animal housing buildings, wells, any waters of the state, property lines, prominent land features, nearest major roads and nearby residences.

The General Information Form (LEPP-3900-GEN-001) must also be included with any Permit to Operate application.

GENERAL CONDITIONS FOR PERMIT

1. **DUTY TO MITIGATE** – The permittee shall take all reasonable steps to minimize or prevent any discharge or disposal in violation of the permit, which has a reasonable likelihood of adversely affecting human health or the environment. This permit may be modified, suspended or revoked for cause.
2. **PERMIT ACTIONS** – The filing by the permittee of a request for permit modification, suspension, revocation, or a notification of planned changes or anticipated noncompliance does not stay any permit.
3. **DUTY TO COMPLY** – The permittee shall comply with all conditions of the permit. Any permit noncompliance constitutes a violation of the act and chapter 903 of the Ohio Revised Code and is grounds for an enforcement action; for permit revocation; suspension; modification; or denial of a permit renewal application.
4. **GENERAL EFFLUENT LIMITATIONS** – The effluent shall, at all times, comply with Ohio water quality standards.
5. **AUTHORIZED DISCHARGES** – All discharges authorized herein shall be consistent with the terms and conditions of this permit. The discharge of any pollutant identified in this permit more frequently than, or at a level in excess of, that authorized by this permit shall constitute a violation of the terms and conditions of this permit. Such violations may result in the imposition of civil and/or criminal penalties as provided in Section 309 of the Act and Ohio Revised Code Sections 903.16, 903.17, 903.18 and 903.99.
6. **DUTY TO REAPPLY** – If any person who wishes to commence a discharge or to continue any activity regulated by the permit after the expiration date of this permit, an application for a permit or renewal of a permit shall be submitted to the Director at least one hundred eighty days prior to discharge or the expiration date of the permit.
7. **PROPERTY RIGHTS** – The permit does not convey any property rights of any sort or any exclusive privilege.
8. **INSPECTION AND ENTRY** – The permittee shall allow the Director or an authorized representative upon the presentation of proper identification and in compliance with Department Biosecurity procedures:
 - a. To enter the facility where any records are kept under the terms and conditions of the permit;
 - b. To have access for review and copying any records that must be kept under the terms and conditions of the permit;
 - c. To inspect, at reasonable times:
 - i. Equipment, (including any monitoring and control equipment) or method;
 - ii. Any manure storage or treatment facility;
 - iii. Practices or operations required or regulated under the permit; and

- iv. To sample or monitor, at reasonable times, for the purpose of assuring permit compliance or as otherwise authorized by the Act, any substances or parameters at any location.

9. **DUTY TO PROVIDE INFORMATION** – The permittee shall furnish to the Department within a reasonable time any information that the Department may request to determine whether cause exists for modifying, revoking and reissuing or terminating the permit or to determine compliance with the permit. The permittee shall also furnish to the Department, upon request, copies of records required by this permit to be kept.

10. **RECORDS RETENTION** –

- a. Records of samples and measurements taken including, but not limited to, samples and measurements of manure, soils, process wastewater and process generated water for the purpose of monitoring shall be representative of the monitored activity.
- b. The permittee shall retain records of all monitoring information, including all calibration and maintenance records and, if applicable, original strip chart recordings or continuous monitoring instrumentation. Copies of reports required by this permit and records of data used to complete the application for this permit shall be retained for a period of at least five years from the date of this permit, the sample, measurement, report or application. This period may be extended by request of the Department at any time.

11. **RECORDING OF RESULTS** –

- a. The date, exact place and time of sampling or measurements;
- b. The individual(s) who performed the sampling or measurements;
- c. The date(s) analyses were performed;
- d. The analytical techniques or methods used; and
- e. The results of such analyses.

12. **SAMPLING AND ANALYTICAL METHODS** – Monitoring must be conducted according to Rules 901:10-2-04 and 901:10-2-13 of the Ohio Administrative Code and according to test procedures approved under 40 C.F.R. Part 136, unless other test procedures have been specified in this permit and approved by U.S. EPA. Monitoring must be conducted in accordance with any water quality analytical procedures approved by the Department. The permittee shall maintain equipment or lease the equipment or otherwise obtain access to equipment to ensure accurate measurements.

13. **SIGNATURES** – All permit applications and reports required by the permit and other information submitted to the Director shall be signed and certified as follows:

- a. Corporation – Signed and certified by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means:

Livestock Environmental Permitting
Permit to Operate (LEPP-3900-006)
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- i. A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation; or
 - ii. The manager of one or more production, or operating facilities, provided, the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures; or
- b. Partnership or Sole Proprietorship – Signed and certified by a general partner for a partnership or the proprietor, respectively.
- c. The written authorization is submitted to the Director.
- d. All reports required by permits and other information requested by the Director shall be signed by the person described above or a duly authorized representative of that person. A person is a duly authorized representative of the person described above only if:
 - i. The authorization is made in writing by the person described above;
 - ii. The authorization specifies either an individual or a position having responsibility for the overall operation of the facility such as the position of manager, or a position of equivalent responsibility. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.) and,
 - iii. The written authorization is submitted to the Director.
- e. Changes to authorization – If an authorization is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying this rule must be submitted prior to or together with any reports, information, or applications to be signed by an authorized representative.
- f. Certification – Any person signing a document under this rule shall make the following certification: "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information."

14. HALT ACTIVITY - Need to halt or reduce activity is not a defense. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

15. PROPER OPERATION AND MAINTENANCE - The permittee shall at all times properly operate and maintain all facilities (and related appurtenances) which are installed or used by the permittee. This provision requires the operation of backup or auxiliary facilities or similar to achieve compliance with the conditions of the permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems only when necessary to comply with the conditions of this permit.

16. EMERGENCY NOTIFICATION - Emergency notification. In an emergency, the permittee shall follow the facility's emergency response plan, which shall include, at a minimum, following:

- a. The names and telephone numbers of persons who are identified by the owner or operator as responsible for implementing the plan;
- b. Areas of the facility where potential spills can occur and their accompanying surface and subsurface drainage points; and
- c. Procedures to be followed in the event of a spill, including actual or imminent discharge to waters of the state. These procedures shall include:
 - i. The permittee shall report a spill or discharge by telephone to the Department as soon as possible, but in no case more than twenty-four hours following first knowledge of the occurrence and shall provide the following information:
 1. The time at which the discharge or spillage occurred, if known, was discovered;
 2. The approximate amount and the characteristics of the discharge or spillage;
 3. The waters of the state affected by the discharge or spillage;
 4. The circumstances, which created the discharge or spillage;
 5. The names and telephone numbers of persons who have knowledge of these circumstances;
 6. Those steps being taken to clean up the discharge or spillage;
 7. The names and telephone numbers of the persons responsible for the cleanup.
 - ii. For any emergency that requires immediate reporting after normal business hours, the permittee shall use the Ohio Department of Agriculture's emergency telephone number.

- iii. If applicable, the permittee shall notify appropriate local authorities.
- iv. The permittee shall also file a written report of the occurrence in letter form within five days following first knowledge of the occurrence, unless waived, in writing, by the Department. This report shall outline the actions taken, proposed to be taken to correct the problem and to ensure that the problem does not recur.

17. NONCOMPLIANCE NOTIFICATION – The permittee shall report any noncompliance, which may endanger health or the environment. Any information shall be provided orally within twenty-four hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within five days of the time the permittee becomes aware of the circumstances. A written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate and prevent reoccurrence of the noncompliance.

The following shall be included as information, which must be reported within twenty-four hours:

- a. Any unanticipated bypass that exceeds any effluent limitation in the permit;
- b. Any upset which exceeds any effluent limitation in the permit; and
- c. Violations of discharge limitations for any of the pollutants listed by the Director in the permit to be reported within twenty-four hours;
- d. The Director may waive the written report on a case-by-case basis for reports if the oral report has been received within twenty-four hours.

18. COMPLIANCE SCHEDULES – Reports of compliance or noncompliance with, or any progress reports on, any compliance schedule of this permit shall be submitted fourteen days after each schedule date.

19. ANTICIPATED NONCOMPLIANCE – The permittee shall give advance notice to the Director of any planned changes at the facility that may result in noncompliance.

20. BYPASS – Bypass means the intentional diversion of manure from any portion of the production area.

- a. Bypass not exceeding limitations. The permittee may allow any bypass to occur that does not cause effluent limitations to be exceeded but only if it also is for essential maintenance to assure efficient operation.
- b. If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible, as least ten days before the date of the bypass.

21. UNANTICIPATED BYPASS – The permittee shall submit notice of an unanticipated bypass to the Director.

22. BYPASSES PROHIBITED – Bypasses are prohibited and the Director may take

enforcement action unless:

- a. The bypass was unavoidable to prevent loss of life, personal injury, or severe property damage. Severe property damage means substantial physical damage to property, damage to the treatment facilities that causes them to be inoperable, or substantial and permanent loss of natural resources that can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.
- b. There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of manure, or maintenance during normal periods of equipment downtime. This condition will not be satisfied if adequate backup equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass.

23. **UPSET** – Upset means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.

- a. Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with technology-based effluent limitations. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is a final administrative action subject to judicial review.
- b. Conditions necessary for a demonstration of upset. A permittee who wishes to establish the affirmative defense of upset shall demonstrate through properly signed, contemporaneous operating records, or other relevant evidence that:
 - i. An upset occurred and the permittee can identify the cause of the upset;
 - ii. The permitted operation was at the time being properly operated;
 - iii. The permittee submitted notice of the upset as required.
- c. In any proceeding to enforce the NPDES permit the permittee seeking to establish the occurrence of an upset has the burden of proof.

24. **PLANNED CHANGES** – The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required when:

- a. The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in 40 C.F.R. section 122.29(b); or
- b. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants, which are not subject to effluent limitations in the permit.

- c. The alteration or addition may constitute a Modification or Major Operational Change as identified in Rules 901:10-1-01 or 901:10-1-09.

25. OTHER INFORMATION – Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Director, it shall promptly submit such facts or information.

26. REPORTING OBLIGATIONS –

- a. Annual reports and information required to be submitted by the permit or by the rules may be submitted in hard copy format in the Ohio Department of Agriculture report form preprinted by the Ohio Department of Agriculture or an approved facsimile. The original report form must be signed and mailed to:

OHIO DEPARTMENT OF AGRICULTURE
LIVESTOCK ENVIRONMENTAL PERMITTING PROGRAM
A.B. Graham Building
8995 EAST MAIN STREET
REYNOLDSBURG, OH 43068-3399

- b. Alternatively, annual reports and information may be submitted electronically using the Ohio Department of Agriculture developed software, based on a memorandum in agreement signed by a responsible corporate officer, general partner, proprietor or a duly authorized representative of the permittee and submitted to the Ohio Department of Agriculture to receive an authorized personal identification number (pin) prior to sending data electronically. A hard copy of the Ohio Department of Agriculture form must be generated, signed and maintained on site for records retention purposes.

27. PENALTIES - Ohio Revised Code Section 903.99 provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under the NPDES permit shall, upon conviction, be punished by a fine of not more than \$25,000 per violation.

CONVICTION - Ohio Revised Code Section 903.99 states that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained by the NPDES permit including monitoring reports or reports of compliance or noncompliance shall, upon conviction, be punished by a fine of not more than \$25,000. Each day of violation constitutes a separate offense.

MANURE MANAGEMENT PLAN

The following sections are required for the Manure Management Plan:

- PART 1: GENERAL INFORMATION
- PART 2: EQUIPMENT MAINTENANCE, REPAIR AND CALIBRATION
- PART 3: MANURE STORAGE OR TREATMENT FACILITIES
- PART 4: INSPECTION AND MAINTENANCE OF STORMWATER AND EROSION CONTROL
- PART 5: OTHER REQUIREMENTS FOR THE PRODUCTION AREA OF THE FACILITY
- PART 6: GROUNDWATER SAMPLING AND ANALYSIS
- PART 7: ANNUAL MANURE VOLUME CALCULATIONS
- PART 8: MANURE CHARACTERISTICS AND NUTRIENT DATA
- PART 9: APPENDIX C, TABLE 6 – CALCULATING AVAILABLE NITROGEN OF MANURE
- PART 10: TOTAL NUTRIENT BUDGET
- PART 11: ANNUAL CROP REMOVAL
- PART 12: PREDICTED SOIL TEST P
- PART 13: SOIL CHARACTERIZATION
- PART 14: ODOR CONTROL AND WEATHER DATA
- PART 15: LAND APPLICATION
- PART 16: CLOSURE PLAN

PROHIBITIONS ON DISCHARGES

1. For all CAFFs except new source swine, veal or poultry operations, there shall be no discharge of manure from the production area to waters of the State, except that manure in an overflow may be discharged when a 25-year, 24-hour storm event (or greater) or a chronic rainfall event causes an overflow from the production area, which is properly designed, constructed, operated, and maintained to contain manure, direct precipitation, and the runoff from a 25-year, 24-hour rainfall event, and the production area is operated in compliance with the measures and records required in this permit and under Rules 901:10-2-08 and 901:10-2-16 of the Ohio Administrative Code. Any overflow that occurs in accordance with the above shall be noted in the operating records for the facility. In order for the permittee to use this discharge exception, the permittee must provide documentation that establishes the conditions necessary to meet the exception.

For new source swine, veal or poultry CAFFs, there shall be no discharge of manure from the production area to waters of the State, except that manure in an overflow may be discharged when a 100-year, 24-hour storm event (or greater) or a chronic rainfall event causes an overflow from production area, which is properly designed, constructed, operated, and maintained to contain manure, direct precipitation, and the runoff from a 100-year, 24-hour rainfall event and the production area is operated in compliance with the measures and records required in this permit and under Rules 901:10-2-08 and 901:10-2-16 of the Ohio Administrative Code. Any overflow that occurs in accordance with the above shall be noted in the operating records for the facility. In order for the permittee to use this discharge exception, the permittee must provide documentation that establishes the conditions necessary to meet the exception.

2. Dry weather discharges of manure are prohibited from the production and land application areas.
3. Any spill, discharge, or overflow of pollutants from the production area to waters of the State shall not cause an exceedance of Ohio Water Quality Standards in the receiving water of the State.
4. In the event of any overflow or other discharge of manure from a manure storage or treatment facility, whether authorized by this permit, the following actions shall be taken:
 - a. Record an estimate of the volume of the release and the date and time.
 - b. The discharge must be analyzed by methods in 40 CFR Part 136.
 - c. If conditions are not safe for sampling, the owner or operator must provide documentation of why samples could not be collected and analyzed (i.e.: due to dangerous weather conditions). Once these conditions have passed, samples shall be collected.
 - d. Refer to **Form 1: ANNUAL DISCHARGE INFORMATION** from the Operating Record which may be used as part of your required Annual Report to be submitted to the Director. This form shows the information that is required for an annual report of any discharges.
 - e. Any spills or discharge **must be reported within 24 hours of discovery as required** by the Emergency Response Plan, which is a part of the Permit to Operate. Refer to **ODA form titled Emergency Spill Report in the ODA Operating Record**

or use your own approved form. This Form shows the information that is required and this information shall be submitted for each emergency report.

LAND APPLICATION OF MANURE

There shall be no discharge of manure into waters of the state from the land application areas under the control of the facility except for discharges that are composed of storm water runoff and/or snow melt runoff originating from a land application area where manure from the facility has been applied in compliance with the manure management plan in this permit and in compliance with the best management practices set forth in Chapter 901:10-2 of the Administrative Code.

FORM 3900-PTO-005, PART 1: MANURE MANAGEMENT PLAN

GENERAL INFORMATION

Name of Facility: Blue Stream Dairy

Contact Person: Jon Morrison

Manure Management Plan Prepared By:

Name: North Point Engineering Corp.

Address: 6657 Frank Ave, NW Suite 200

North Canton, OH 44720

Telephone: 330-494-8888

Email: dgerdeman@npecorp.com

Fax: 330-494-8889

EQUIPMENT MAINTENANCE, REPAIR AND CALIBRATION

As required by Rule 901:10-2-08(A)(2) of the OAC, the owner or operator shall maintain a list of equipment used, including land application equipment and a written chronological record of the dates of inspections, maintenance, calibration monitoring and repairs that shall be maintained in the operating record required by rule 901:10-2-16 of the Administrative Code and be made readily available during an inspection of the facility. All repairs shall be completed promptly. The owner or operator must periodically inspect equipment used for land application of manure, litter, or process wastewater for leaks. OAC Rule 901:10-2-08(A)(3).

Please refer to FORM 2: LAND APPLICATION EQUIPMENT RECORDS in the Operating Record for the type of information required in your records or you may use your own approved form. List all equipment owned or operated by the facility to be used as part of managing manure at the manure storage or treatment facility.

Most manure is applied by manure application contractor

	A.	B.	C.	D.
Equipment Type	Capacity/Size	Number Available	Major Maintenance Frequency	Calibration Frequency
Solid Spreaders				
Liquid Spreaders or Tankers (Inject/Incorp.)				
Liquid Spreaders or Tankers (Surface)				
Drag Hose System (Inject/Incorp.)				
Drag Hose System (Surface)				
Traveling Gun				
Center Pivots	1,000 Feet Valley 6"	1	Before Summer Application	Before Summer Application
Pumps	8" Discharge 2,250 gpm Flush Pump	1	As needed	Part of ongoing operations
Other (Describe)				

MANURE STORAGE OR TREATMENT FACILITIES

Please refer to FORM 3A or 3B: INSPECTION OF MANURE STORAGE AND TREATMENT FACILITIES in the Operating Record for the type of information required in your records or you may use your own forms if approved by ODA. Complete the following information on the form provided for each manure storage or treatment facility:

1. List all manure storage or treatment facilities located at the facility. In Column A, provide the Structural ID that is, or will be, utilized in identifying this structure. (*Examples would be Deep Pit-Barn 1, North Manure Storage Pond, Concrete Settling Basin, Manure Treatment Lagoon-Cell 1, etc.*)
2. In Column B, provide the estimated volume of manure that will be removed from that manure storage or treatment facility on an annual basis.
3. Specify a frequency for inspecting the operating level of each manure storage or treatment facility in Column C. All liquid manure storage structures must be inspected a minimum of once a week. Refer to Form 3A in the ODA Operating Record. Depth markers must be installed in all ponds or lagoons and must clearly indicate the minimum capacity necessary to contain the runoff and direct precipitation of (one of the following):
 - a. The 25-year, 24-hour rainfall event
 - b. The 100-year, 24-hour rainfall event
4. Please specify in Column D the required freeboard for each manure storage pond, manure treatment lagoon or fabricated structure. The freeboard for manure storage ponds or treatment lagoons shall be **1 foot plus the direct precipitation and runoff** collected by that representative structure for the appropriate design storm as described under "Prohibitions on Discharges" (See page 2 above, paragraph 1) and as required by Rule 901:10-2-06(A)(8). The freeboard for fabricated structures shall be **6 inches plus the direct precipitation and runoff** collected by that representative structure for the appropriate design storm as described under "Prohibitions on Discharges" (See page 2) and as required by Rule 901:10-2-05(A)(4).
5. State the Maximum Operating Level of the manure storage or treatment facility in Column E. This should be calculated based on the total depth of structure minus the required freeboard as described in Step 4 above.
6. Provide the Total Manure Storage Volume of the manure storage or treatment facility in gallons for liquid systems and cubic feet for solid systems in Column F. This volume should not include the volume that should be designated as required freeboard as provided in Step 4 above.
7. State the Storage Period provided for the manure storage or treatment facility in days in Column G. To calculate, take the *Total Manure Storage Volume* and divide by the *Total Amount of Manure Produced In One Year* and then multiply by 365 Days.
8. In Column H specify a Frequency for Inspecting the Overall Structural Integrity of the manure storage or treatment facility. Refer to Forms 3A and 3B in the ODA Operating Record. Manure storage or treatment facilities shall be inspected for evidence of erosion,

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8. In Column H specify a Frequency for Inspecting the Overall Structural Integrity of the manure storage or treatment facility. Refer to Forms 3A and 3B in the ODA Operating Record. Manure storage or treatment facilities shall be inspected for evidence of erosion, leakage, animal damage, cracking, excessive vegetation or a discharge as required by Rule 901:10-2-08 (A)(4)(e).

MANURE STORAGE OR TREATMENT FACILITIES

A.	B.	C.	D.	E.	F.	G.	H.
Structure ID	Annual Volume of Manure Removed from this Structure	Inspection Frequency of Operating Level	Freeboard (Feet)	Maximum Operating Level (Feet)	Total Manure Storage Volume (Gallons or Cubic Feet)	Storage Period Provided (Days)	Inspection Frequency of Overall Structural Integrity
Manure Pond #1	20,558,079 gallons	Weekly	1.9	16.5	11,169,056 gallons	198	Bi-Annually
Manure Pond #2	N/A	Weekly	1.5	11.6	2,541,794 gallons	45	Bi-Annually
Manure Pond #3	N/A	Weekly	1.5	18.7	3,478,566 gallons	62	Bi-Annually
Manure Pond #4	N/A	Weekly	1.5	18.5	3,435,144 gallons	61	Bi-Annually
Manure Solid/Sand Storage Pad	675 Tons	Weekly	N/A	N/A	500 tons	270	Bi-Annually
Settling Basin	N/A	Weekly	1.9	8.1	300,000 gallons	5	Bi-Annually
Recycled Sand Storage Pad	N/A	Weekly	N/A	N/A	49,000 ft ³	N/A	Bi-Annually

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INSPECTION AND MAINTENANCE OF STORMWATER AND EROSION CONTROL

List the frequency at which you will inspect the following items in the chart in order to satisfy Rule 901:10-2-08(A)(4)(d), (h), (i), (j) and (k).

Please refer to the forms included as the Operating Record Forms 3A or 3B for the type of information required for your records for each item listed below. You may use your own forms if these are approved by ODA.

You are required to perform weekly visual inspections of all storm water diversion devices, runoff diversion structures, and devices channeling contaminated storm water to the manure storage pond(s) and/or manure treatment lagoon(s). For any other devices, please insert the inspection frequency.

On the following chart, check all of the types of control structures that apply at your facility, and, where appropriate, the inspection frequency.

	A.	B.	C.
Control Structure Type	Inspection Frequency	Maintenance Frequency ¹	Check if applicable
Storm Water Diversion(s)	Weekly	As Required	<input checked="" type="checkbox"/>
Runoff Diversion	Weekly	As Required	<input checked="" type="checkbox"/>
Erosion Control/Surface Outlet Structures	Weekly	As Required	<input checked="" type="checkbox"/>
Contaminated Storm Water Channels or Conveyances	Weekly	As Required	<input checked="" type="checkbox"/>
Berms/Embankments of all Earthen Stormwater Structures	Weekly	As Required	<input checked="" type="checkbox"/>
Manure Transfer Systems or Conveyances	Weekly	As Required	<input checked="" type="checkbox"/>
Grassed Waterways and Filter Strips around production area	Weekly during growing season	As Required	<input checked="" type="checkbox"/>
Vegetative Cover around production area.	Weekly during growing season	As Required	<input checked="" type="checkbox"/>
Gutters/Downspouts			<input type="checkbox"/>
Contaminated Storm Water Pond	Weekly	As Required	<input type="checkbox"/>
Domestic/Industrial Waste Structures or Controls	Weekly	As Required	<input checked="" type="checkbox"/>
Other (describe):			<input type="checkbox"/>

¹ Column C: Maintenance Frequency – This shall describe the intended frequency that each item will be maintained. For items that relate to vegetative cover, this could be as simple as "Weekly during the growing season." For other items, like Manure Transfer Pipes and Gutter/Downspouts, this could be noted as "As needed or required."

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OTHER REQUIREMENTS FOR THE PRODUCTION AREA OF THE FACILITY

There shall be no disposal of animal mortalities in any fabricated structure, manure storage pond, or manure treatment lagoon, unless the system is specifically designed to treat animal mortalities. Handle animal mortalities so as to prevent discharge of manure to waters of the state.

There shall be no disposal of untreated or unapproved domestic or industrial wastewater from showers, toilets, or sinks. In addition, there shall be no disposal of medical wastes, chemicals, or other contaminants used in the production area into any manure storage or treatment facility. There shall be no access to waters of the state by any animals in the production area of the facility.

Daily, visual inspections of all drinking water and cooling water lines shall be recorded in the **Operating Record Form. Select from Forms 8A, 8B, or a form provided by the U.S. EPA.** You may also use your own form if pre-approved by ODA.

Deficiencies found during any of the inspections required by this permit shall be corrected as soon as possible and listed in the Operating Record as required by Rules 901:10-2-08(A)(4)(q) and 901:10-2-16.

Best Management Practices and good housekeeping practices shall be maintained by the operation as provided with the approved engineering plans and/or in accordance with Rules 901:10-2-04 (E). For instance, all areas designed or approved to be free of manure or other pollutants and therefore considered clean storm water shall be maintained as such. Any contaminated areas within the production area shall have all runoff collected and stored as designed or approved.

GROUNDWATER SAMPLING AND ANALYSIS

Unless submitted as part of an application for a PERMIT TO INSTALL that accompanies an application for this PERMIT TO OPERATE, you must provide a copy of the results of sampling and analysis of groundwater from a well at the facility. Rule 901:10-2-08(A)(4)(I) requires **annual** sampling of groundwater from a well that is properly located, protected and operated at the facility. The well must be accessible for sampling and have adequate water quantity for a sample. The analysis shall include, at a minimum, Total Coliform Bacteria and Nitrates.

A copy of the sample results as provided by the laboratory must be kept in the Operating Record. **Refer to Form 4: ANNUAL GROUND WATER RECORDS of the Operating Record** for the type of information required for your record.

ANNUAL MANURE VOLUME CALCULATIONS

Provide an estimate, supported by calculations, of the quantity of manure produced, stored and treated during a twelve-month period, including rainfall and contaminated runoff. For existing facilities, actual records of manure generated shall be used and for new facilities, records from a similar type facility or book values can be used. If a separate volume calculation spreadsheet is available, please attach and reference.

A.	B.	C.	D.	E.	F.
Animal Species	Animal Weight	Volume of Manure per Animal per Day	Animal Numbers	Days Per Year at Facility	As is Tons or Gallons Generated
Dairy	1,450	28.16 gallons	2,000	365	20,558,079 gallons
Dairy	1,450	1.85 pounds	2,000	365	675 tons

In the space provide below or on with an attachment, provide calculations for additional sources of manure and total annual manure generation for the facility. These shall include, at a minimum, excreted manure, bedding, direct rainfall, contaminated runoff, process wastewater, washwater, silage leachate, etc.

See attached sheet.

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MANURE CHARACTERISTICS AND NUTRIENT DATA

Provide manure analysis from each manure storage or treatment facility that will have manure applied from it for land application or any other alternative use.

Check Source of Data: Values are average for 2010, 2011 & 2012

☐ Book Value ☒ Facility records ☐ Other Facility

If from a source other than this facility, identify:

Name/Title: Blue Stream Dairy

Address: 3242 Mentzer Church Road, Convoy, OH 45832

%Moisture: 98.83	Total N	Ammonia N	Organic N	P ₂ O ₅	K ₂ O
Lbs/Ton or Lbs/1000 Gal.	6.0	3.9	2.1	2.6	7.1
Total Annual Lbs. of Nutrient	119,748	77,837	41,912	51,891	141,702
Manure Storage ID:	Liquid Manure				
Annual Volume from Part 3, Column B:	19,958,079 Gallons				

Check Source of Data:

☐ Book Value ☒ Facility records ☐ Other Facility

If from a source other than this facility, identify:

Name/Title: Blue Stream Dairy

Address: 3242 Mentzer Church Road, Convoy, OH 45832

%Moisture: 96.5	Total N	Ammonia N	Organic N	P ₂ O ₅	K ₂ O
Lbs/Ton or Lbs/1000 Gal.	15.2	9.7	5.5	7.0	11.9
Total Annual Lbs. of Nutrient	9,120	5,820	3,300	4,200	7,140
Manure Storage ID:	Concrete Basin				
Annual Volume from Part 3, Column B:	600,000 Gallons				

Check Source of Data:

☐ Book Value ☒ Facility records ☐ Other Facility

If from a source other than this facility, identify:

Name/Title: Blue Stream Dairy

Address: 3242 Mentzer Church Road, Convoy, OH 45832

%Moisture: 57.2	Total N	Ammonia N	Organic N	P ₂ O ₅	K ₂ O
Lbs/Ton or Lbs/1000 Gal.	26.2	3.3	22.8	8.3	12.9
Total Annual Lbs. of Nutrient	17,685	2,228	15,390	5,603	8,708
Manure Storage ID:	Dairy Solid with Bedding				
Annual Volume from Part 3, Column B:	675 Tons				

Check Source of Data:

☐ Book Value ☐ Facility records ☐ Other Facility

If from a source other than this facility, identify:

Name/Title:

Address:

%Moisture:	Total N	Ammonia N	Organic N	P ₂ O ₅	K ₂ O
Lbs/Ton or Lbs/1000 Gal.					
Total Annual Lbs. of Nutrient					

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FINAL PERMIT

APPENDIX C, TABLE 6 – CALCULATING AVAILABLE NITROGEN OF MANURE

Refer to Farm Nutrient Balance Section of MMP

Calculate the available nitrogen based on time of year and type of application. Determine available nitrogen by multiplying the percent available for ammonia N and organic N and adding them together (i.e., $0.5 \times \text{NH}_4\text{N} + 0.33 \times \text{Organic N}$). Use the table below or attach an additional sheet showing calculations.

ODA APPENDIX C, TABLE 6: METHOD OF CALCULATING N AVAILABILITY OF MANURES ¹

Manure Applied TONS	Manure Available Nitrogen POUNDS	Poultry Manure Available Nitrogen POUNDS	Available Nitrogen % NH ₄	ORGANIC	Time of Application DATE	Days Until Incorporated ² DAYS
			50	33	NOV – FEB	≤ 5
			25	33	NOV – FEB	> 5
			50	33	MAR – APR	≤ 3
			25	33	MAR – APR	> 3
			75	33	APR – JUN	≤ 1
			25	33	APR – JUN	> 1
			75	15	JUL – AUG	≤ 1
			25	15	JUL – AUG	> 1
			25	33	SEP – OCT	≤ 1
			15	33	SEP – OCT	> 1

¹ The calculations are for all animal manures. It is assumed that 50% of the organic N in poultry manure is converted to NH₄ rapidly and is therefore included in the NH₄ column for calculating available N.

² Incorporation is the mixing of manure and soil in the tillage layer. Disking is usually enough tillage for conserving N availability.

tillage layer. Disking is usually enough tillage for conserving N availability.

FORM 3900-PTO-005, PART 10: MANURE MANAGEMENT PLAN

TOTAL NUTRIENT BUDGET

Refer to Whole Manure Characterization Section of MMP

Rule 901:10-2-09 requires a manure management plan to include a total nutrient budget for the land application areas under the control of the facility and the quantity of nutrients to be managed by distribution and utilization. To the extent the manure is not managed through distribution and utilization, the rule requires a total summary of land application areas to be used for the duration of the permit. This means that a summary statement be provided in the MMP that demonstrates your plan to manage manure over the life of the permit (5 years) with the means of recycling the manure and manure nutrients. Please provide the following information:

Summary of Manure To Be Land Applied under the Control of the Facility

The Nitrogen reported is Total N, not plant available N.

Annual Total N Applied (lbs): 146,553 lbs.

Annual Total P₂O₅ Applied (lbs): 61,694 lbs.

Annual Total K₂O Applied (lbs): 157,550 lbs.

Total Acres under Control of the CAFF: 1597.4 Acres

Summary of Manure To Be Distributed to Others through Distribution and Utilization

Annual Total N Distributed (lbs):

Annual Total P₂O₅ Distributed

(lbs):

Annual Total K₂O Distributed (lbs):

In cases where manure generated by the facility is sold or given away, the owner or operator must comply with the following conditions, and maintain records of the distribution and utilization as required by FORM 6: DISTRIBUTION AND UTILIZATION RECORD of the Operating Record:

Check all that apply:

- ☐ Sale/Distribution/Donation of manure to a Certified Livestock Manager
- ☐ Sale/Distribution/Donation of manure to a someone other than a Certified Livestock Manager
- ☐ Sale/Distribution/Donation of manure for renewable energy alternatives.
- ☐ Sale/Distribution/Donation of manure to composting facility certified by Ohio EPA
- ☐ Other (Explain)

For Distribution and Utilization to others, the CAFF shall be aware of the requirements set forth in Rule 901: 10-2-11 (D). This rule specifically says that "If the owner or operator is notified by the Director, or otherwise becomes aware that the recipient is not in compliance with rule 901: 10-1-06 of the Administrative Code or best management practices set forth in Chapter 1501: 15-5 of the Administrative Code or with other applicable laws and rules, the owner or operator shall cease providing manure to the recipient until written authorization to continue is provided by the department."

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ANNUAL CROP REMOVAL**Refer to Whole Farm Nutrient Balance Section of MMP**

The following chart was developed by ODA to assist the applicant with calculating nutrient budgets. An applicant may substitute a MMP using similar software or other forms if they address all items covered in the following forms and ODA rules.

				Total lbs of Nutrients Recommended/Removed ⁴		
	Crop	Yield Goal bu/ac or ton/ac	Avg Annual Acres	Nitrogen	P ₂ O ₅	K ₂ O
Grains/ Grasses	Corn Grain (after grain)					
	Corn Grain (after legumes)					
	Corn Silage					
	Corn Silage (after legumes)					
	Wheat (grain only)					
	Wheat (grain and straw)					
	Grasses (Cool season- or Tall-)					
Legumes	Soybeans (double cropped) ¹					
	Soybeans					
	Alfalfa					
All Crops		-----				

Avg. Nutrients Recommended/Removed per acre per year =			
Avg. Nutrients Recommended/Removed per acre/year at only 150lbs N/acre for legumes ² =			
Total Manure Nutrients Available (lbs) per year =			
Total Annual Nutrient Balance (Nutrients supplied by manure minus crop recommendation/removal) (lbs) =			
Ave. Acres required to utilize manure N at crop recommendation =		acres	
Avg. Acres required to utilize manure N at only 150 lbs N/ac for legumes ² =		acres	
Avg. Acres required to utilize manure P ₂ O ₅ at crop removal =		acres	
Average Annual P ₂ O ₅ balance (per acre) ³ =		lbs P ₂ O ₅ /ac	

Footnotes:

1. The acreage of double-cropped fields is only counted once towards the total available for application.
2. ODA Rules limit application rate of N on legume crops to a maximum of 150 lbs/acre.
3. Avg. annual P₂O₅ balance is positive if nutrients applied per acre exceed crop removal. It is a negative value if crop removal exceeds nutrients applied per acre.
4. Reference the Ohio Agronomy Guide and Tri-State Fertilizer Recommendations.

SOIL CHARACTERIZATION

Soil samples for soil tests shall be representative of a land application area, with one composite soil sample representing no more than 25 acres or one composite soil sample for each land application site, whichever is less.

Soil test analysis shall be performed as required by Rule 901:10-2-13 and performed by laboratories that can provide the North Central Region 13 (NCR 13) method of testing. NCR 13 specifies extraction methods appropriate for the Midwest conditions. Avoid taking soil test samples (other than for presidedress nitrogen) anytime in a six-month period after manure application. All soil samples shall be taken to a uniform, 8-inch depth.

In developing appropriate manure application rates for land application, the Bray P₁ soil test level shall be used or an equivalent appropriate phosphorus soil test may be used, if approved by the Director of Agriculture.

This MMP uses the following soil test (select one):

- | | | |
|---|---|--|
| <input checked="" type="checkbox"/> Bray P ₁ | <input checked="" type="checkbox"/> Parts per million (ppm) | <input type="checkbox"/> Pounds per acre (lbs./acre) |
| <input type="checkbox"/> Mehlich III | <input type="checkbox"/> Parts per million (ppm) | <input type="checkbox"/> Pounds per acre (lbs./acre) |
| <input type="checkbox"/> Olsen | <input type="checkbox"/> Parts per million (ppm) | <input type="checkbox"/> Pounds per acre (lbs./acre) |
| <input type="checkbox"/> Phosphorus Retention Test | <input type="checkbox"/> Parts per million (ppm) | <input type="checkbox"/> Pounds per acre (lbs./acre) |
| <input type="checkbox"/> Other (describe): | <input type="checkbox"/> Parts per million (ppm) | <input type="checkbox"/> Pounds per acre (lbs./acre) |

These soil samples shall have been taken within the last three years and each sample shall not represent more than 25 acres. A detailed spreadsheet and a copy of the lab results shall be provided at the time of application for all fields under the control of the facility.

ODOR CONTROL AND WEATHER DATA

The following are the best management practices to be used to minimize odors. Check all those that apply as conditions in your permit. Rule 901:10-2-12, 901:10-2-14, and 901:10-2-16(A)(1)(c)(xvii).

Record weather conditions 24 hours before land application, during land application, and 24 hours after land application activities in the **FORM 7B: LAND APPLICATION RECORDS – FIELD INFORMATION** of the Operating Record or your own pre-approved form.

Check all that may be used:

- ☒ Remove, transfer and land apply manure when wind direction is less likely to affect neighboring residences.
- ☒ Inject Manure.
- ☒ Incorporate Manure.
- ☒ Utilize appropriate pressure and nozzles for spray irrigation.
- ☐ Utilize an appropriate odor control volume in the design and operation of manure treatment lagoon.
- ☐ Other: _____

FORM 3900-PTO-005, PART 15: MANURE MANAGEMENT PLAN

LAND APPLICATION

The following describes the procedures to be used in this MMP for land application as required by Rule 901:10-2-14.

APPLICATION PROCEDURES:

In the space provided below, briefly describe the general application methods that will be utilized by your facility. This shall include the type of equipment for application, type of equipment for incorporation or injection, type of equipment to be utilized for transportation to fields, approximate number of days and/or loads needed to land apply the annual manure produced, whether land application will be performed by a custom applicator, etc. *Note: If Distribution and Utilization is utilized for all manure, please answer as "N/A."*

A manure application contractor under contract to Blue Stream Dairy will spread manure. Manure and process wastewater will be pumped into pulled tankers and hauled to cash crop farmers' fields.

Tankers will be equipped with injectors for immediate incorporation into the soil or manure will be incorporated within one day by disking or similar method. During the summer, the application will be done on growing crops using irrigation equipment. Solids are applied by manure application contractor.

Use **FORMS 7A & 7B of the Operating Record**, or your own approved forms, to record all of the following to satisfy the Rules listed:

1. Field observations of liquid manure applications, based on Available Water Capacity. Rules 901:10-2-16(A)(1)(c)(iii), 901:10-2-16(A)(1)(c)(iv), and 901:10-2-14.
2. Soil survey maps for all land application areas. Rule 901:10-2-16(A)(1)(c)(v).
3. Cropping schedules. Rule 901:10-2-16(A)(1)(c)(viii).
 - a. Past Year
 - b. Current Year
 - c. Anticipated 2-Year projection for planned crop (after the current year)

4. Targeted crop yield for each crop (productivity and yield data). Rule 901:10-2-16(A)(1)(c)(ix).
5. Actual yield. Rule 901:10-2-16(A)(1)(c)(xi).
6. Results of Rule 901:10-2-16(A)(1)(c)(xii).
 - a. Nitrogen leaching risk assessment procedures.
 - b. Phosphorus soil test assessment procedures.
 - c. Phosphorus index risk assessment procedure.
7. Nutrient applications. Rule 901:10-2-16(A)(1)(c)(xiv).
 - a. Date
 - b. Rate
 - c. Quantity Rule 901:10-2-16(A)(1)(c)(xv).
 - d. Method
 - e. Source
 - f. Form
 - g. Identify as manure, commercial fertilizer, and/or organic byproduct.
8. Soil conditions at the time of application Rule 901:10-2-16(A)(1)(c)(xvi).
 - a. Available Water Capacity
 - b. Soil cracks
 - c. Other
9. Dates of implemented best management practices to reduce runoff by crop rotation, cover crops or residue management. Rule 901:10-2-16(A)(1)(c)(xviii).
10. Site inspections to inspect setbacks used to maintain vegetative cover and protect stream channels or areas adjacent to such stream channels and as required by rule 901:10-2-14 of the Administrative Code. Rule 901:10-2-16(A)(1)(c)(vii).
11. Temperature, including general weather conditions at time of application and for twenty-four hours prior to and following application. Rule 901:10-2-16(A)(1)(c)(xvii).

Use **FORM 7C: NUTRIENT MANAGEMENT RECORDS** of Operating Record, or your own form if approved by ODA, only in the event that you need to update the MMP during the 5-year term of the Permit to Operate, based on changes in how the facility is managed, including the location, method, timing, or frequency of land application, and changes to crop rotations or yearly cropping patterns.

FORM 3900-PTO-005, PART 16: MANURE MANAGEMENT PLAN

CLOSURE PLAN

If the owner or operator of a facility plans to discontinue permit coverage under a PTO or NPDES permit or not reapply for permit coverage if the facility has ceased operation, is no longer a CAFF or CAFO, or if the facility is no longer required to maintain permit coverage in the permit program, then the owner or operator shall notify the director in writing and shall submit a closure plan that is in compliance with Rule 901:10-2-18. A closure plan shall also be submitted and approved if a portion of an existing CAFF's manure storage or treatment facility is closed or if the CAFF chooses to reduce its design capacity for animals.

Manure Management Plan

Blue Stream Dairy

January 24, 2012

Prepared by

**North Point Engineering Corp.
6657 Frank Ave. NW, Suite 200
North Canton, OH 44720**

Manure Management Plan

Attachment A

- **Manure and Nutrient Balance Worksheet**
- **Annual Manure Generation Calculations**
 - **Manure Analysis Reports**
 - **Field Maps**
 - **Field Soil Tests**

Blue Stream Dairy

ODA Manure Management Tool
Version 2-6, 12JUL11

82 of 188 Notes to users of this Manure Management Tool spreadsheet (Version 2-6, 12JUL11):

This spreadsheet was developed to provide a planning tool to livestock facilities to help manage manure nutrients. This tool is not intended to replace a more detailed plan. Use of this tool is not required for use by ODA permitted facilities and is provided for informational/educational purposes only.

This tool is a Microsoft Excel Workbook consisting of 5 individual worksheets that are accessed by clicking on the tabs at the bottom of the window. The worksheets are locked so that the formulas are not accidentally deleted or changed by the user. If a user needs a customized version of this spreadsheet, ODA can send either a customized or unlocked version. Input cells are shaded yellow and this is where the user enters values specific to their facility. The various spreadsheets will have example values in some of these yellow cells. Simply delete this information or type over with the information specific to your facility.

The first worksheet is titled "Manure Characterization". The user can input their facility information and date in the yellow cells at the top. The upper table is where the user will input manure information for each distinct manure source (the storage structure name and the nutrient analysis information). The user should have a separate analysis for each type of manure and manure source. The top portion of this table is for liquid manure with the information from the nutrient analysis entered in lbs per 1,000 gallons. The bottom portion is for solid manure with the nutrient analysis information entered in lbs per ton. Be careful not to confuse liquid and solid manure data. For each manure source there is a column to enter the total amount of manure collected and one to enter total manure that is distributed to others and used in accordance with ODA rules on "Distribution and Utilization". Whatever portion of the collected manure that is not distributed to others is assumed to be land applied by the facility. The information in the upper table is used to calculate the total nutrients available for land application in the lower table.

Note that the amount of Nitrogen available for crop uptake depends on the timing and method of land application. So this will display as zero until the information is entered on the next worksheet.

The second worksheet is titled "Manure Application". It is intended to calculate the available Nitrogen based on application timing and method in addition to the manure volume and characterization that was already entered. On this worksheet will be a series of tables, one for each different source of manure identified on the previous worksheet. Each table will have the name of the manure source at the top. The user will enter an estimated percentage of the manure volume from each particular source that is land applied under the listed conditions. Make sure the percentage adds up to 100% at the bottom of each table. Changes in how and when manure is applied can make big differences in how much Nitrogen remains available for crop uptake.

The third worksheet is titled "Crop Acreage". It is where the user will input the planned crop acres for a five year rotation. The sum total of crop acres for each year must equal the sum total of the spreadable acres calculated on the last spreadsheet (the "Field Nutrient Balance"). If the crop acres do not equal the spreadable acres for any given year, an error will appear. The spreadsheet will calculate the annual acres for each crop type averaged over the 5-year plan period. Note that the acres of crops should be the number of acres to which manure can be applied after the subtracting the required setbacks. Because the worksheet is intended to calculate nutrient information only for crop land to which the user may apply manure.

The fourth worksheet is titled "Whole Farm Nutrient Balance". It is where the user enters the beginning and ending crop year for the plan period, and the yield goals for each crop. The crop acreage information is referenced from the previous worksheet. The worksheet calculates the total and average nutrients removed and applied during the planned crop rotation. At the bottom of the worksheet it will calculate the acres, based on the inputted crop information, required to utilize the manure nutrients at agronomic rates.

The last worksheet is the "Field Nutrient Balance". Here the user inputs the field and subfield names and acreage. (Since the user is required to have soil tests for every 25 acres, these 25-acre management zones are referred to as "subfields".) The user inputs the date of the most recent soil test, which is required to be updated at least every 3 years. If a soil test is more than 3 years old, a note will appear to the right of the table telling the user to update the soil test. Next the user inputs the Soil Test P information as the "Starting P" for that field. Note that this worksheet calculates in terms parts per million (or ppm) for P. (To convert from lbs per acre P to ppm P, divide by 2.) Based on the P removal information calculated previously, this worksheet will then calculate the predicted Soil Test P Rating for each field at the end of the plan period. In the last column the user will enter the Nitrogen Leaching Potential for each field. Note that the rating is "High" for any systematically tilled field. At the bottom, the worksheet will summarize the total acres available for manure application based on the information entered for "spreadable" acres for

Note that the land application acres should match the crop acres from the "Crop Acreage" sheet. Again, this tool is intended to calculate the nutrient balance only on the crop acres that receive manure applications (total acreage available after subtracting setbacks).

Owner/Operator: Blue Stream Dairy
Facility Name: Blue Stream Dairy
MMP Prepared by: North Point Engineering
Date Prepared: 01/01/12

Manure Analysis												
Lbs/ton or Lbs/1000 gal												
Manure Source		Total amount of manure removed from structure annually	Manure Distributed to others (D&U) per year ¹	Manure land applied by facility per year	Units (gallon or ton)	Total N	Ammonia N	Organic N	P ₂ O ₅	K ₂ O	% Moisture	Available N (from next sheet) ²
Liquid Manure	Liquid Manure	19,958,079		18,958,079	gal	6.0	3.9	2.1	2.6	7.1	98.8	1.4
	Concrete Basin	600,000		600,000	gal	15.2	9.7	5.5	7.0	11.9	96.5	3.8
				0	gal							0.0
				0	gal							0.0
				0	gal							0.0
				0	gal							0.0
Solid Manure	Solid w/Bedding	675		675	ton	28.2	3.3	22.8	8.3	12.9	57.3	8.2
				0	ton							0.0
				0	ton							0.0
				0	ton							0.0
				0	ton							0.0
				0	ton							0.0

¹Information in this table corresponds to Part 6 of ODA Form LEPP-3900-007.

Total Annual Nutrients Available (lbs) for land application				Total Annual Nutrients Available (lbs) for Distribution and Utilization by others			
N	P ₂ O ₅	K ₂ O		N	P ₂ O ₅	K ₂ O	
Liquid Manure	28,680	51,891	141,702	0	0	0	0
Concrete Basin	2,252	4,200	7,140	0	0	0	0
	0	0	0	0	0	0	0
	0	0	0	0	0	0	0
	0	0	0	0	0	0	0
	0	0	0	0	0	0	0
	0	0	0	0	0	0	0
	0	0	0	0	0	0	0
Solid w/Bedding	5,524	6,603	8,708	0	0	0	0
	0	0	0	0	0	0	0
	0	0	0	0	0	0	0
	0	0	0	0	0	0	0
	0	0	0	0	0	0	0
Annual Nutrients Land Applied by Facility (lbs)				Annual Nutrients Distributed to others (lbs)			
36,456	61,694	157,550		0	0	0	0

Note 1: Manure distributed and utilized by other producers in accordance with Rule 901:10-2-11
Note 2: Available N based on Appendix C Table 6 to Rule 901:10-2-14 *Method of Calculating N Availability of Manures

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Facility Name: Blue Stream Dairy
Date Prepared: 01/01/12

Tables based on Appendix C Table 6 to Rule 901:10-2-14 "Method of Calculating N Availability of Manures
*Information corresponds to Part 9 of ODA Form LEPP-3900-007.

Manure Source = Liquid Manure					
Available N %		Dates of Application	# of Days until incorporated	planned % of yearly manure <i>from this source</i> applied under these conditions	Available N (lbs/ton or lbs/1000 gal)
NH ₄	Organic				
50%	33%	Nov-Feb	≤ 5		2.6
25%	33%	Nov-Feb	> 5	40%	1.7
50%	33%	Mar-Apr	≤ 3		2.6
25%	33%	Mar-Apr	> 3		1.7
75%	33%	Apr-Jun	≤ 1		3.6
25%	33%	Apr-Jun	> 1		1.7
75%	15%	Jul-Aug	≤ 1		3.2
25%	15%	Jul-Aug	> 1	25%	1.3
25%	33%	Sep-Oct	≤ 1		1.7
15%	33%	Sep-Oct	> 1	35%	1.3
				100%	1.4

lbs/N per ton or
lbs/N per 1000 gal

Manure Source = Concrete Basin					
Available N %		Dates of Application	# of Days until incorporated	planned % of yearly manure <i>from this source</i> applied under these conditions	Available N (lbs/ton or lbs/1000 gal)
NH ₄	Organic				
50%	33%	Nov-Feb	≤ 5		6.7
25%	33%	Nov-Feb	> 5	50%	4.2
50%	33%	Mar-Apr	≤ 3		6.7
25%	33%	Mar-Apr	> 3		4.2
75%	33%	Apr-Jun	≤ 1		9.1
25%	33%	Apr-Jun	> 1		4.2
75%	15%	Jul-Aug	≤ 1		8.1
25%	15%	Jul-Aug	> 1	10%	3.3
25%	33%	Sep-Oct	≤ 1		4.2
15%	33%	Sep-Oct	> 1	40%	3.3
Total =				100%	3.8

lbs/N per ton or
lbs/N per 1000 gal

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Manure Source = Solid w/Bedding					
Available N %		Dates of Application	# of Days until incorporated	planned % of yearly manure <i>from this source</i> applied under these conditions	Available N (lbs/ton or lbs/1000 gal)
NH ₄	Organic				
50%	33%	Nov-Feb	≤ 5		9.2
25%	33%	Nov-Feb	> 5	50%	8.3
50%	33%	Mar-Apr	≤ 3		9.2
25%	33%	Mar-Apr	> 3		8.3
75%	33%	Apr-Jun	≤ 1		10.0
25%	33%	Apr-Jun	> 1		8.3
75%	15%	Jul-Aug	≤ 1		5.9
25%	15%	Jul-Aug	> 1		4.2
25%	33%	Sep-Oct	≤ 1		8.3
15%	33%	Sep-Oct	> 1	50%	8.0
Total =				100%	8.2

lbs/N per ton or
lbs/N per 1000 gal

Manure Source = 0					
Available N %		Dates of Application	# of Days until incorporated	planned % of yearly manure <i>from this source</i> applied under these conditions	Available N (lbs/ton or lbs/1000 gal)
NH ₄	Organic				
50%	33%	Nov-Feb	≤ 5		0.0
25%	33%	Nov-Feb	> 5		0.0
50%	33%	Mar-Apr	≤ 3		0.0
25%	33%	Mar-Apr	> 3		0.0
75%	33%	Apr-Jun	≤ 1		0.0
25%	33%	Apr-Jun	> 1		0.0
75%	15%	Jul-Aug	≤ 1		0.0
25%	15%	Jul-Aug	> 1		0.0
25%	33%	Sep-Oct	≤ 1		0.0
15%	33%	Sep-Oct	> 1		0.0
Total =				0%	0.0

lbs/N per ton or
lbs/N per 1000 gal

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Facility Name: Blue Stream Dairy
Date Prepared: 01/01/12

Total Spreadable Crop Acres in the Plan = 1597 acres
(from "Field Nutrient Balance" worksheet)

	Crop	1st Year of Plan (Acres)	2nd Year of Plan (Acres)	3rd Year of Plan (Acres)	4th Year of Plan (Acres)	5th Year of Plan (Acres)	Avg. Annual Acres over the Planning Period
Grains/ Grasses	Corn Grain	350	350	350	350	350	350
	Corn Grain (after legumes)	200	200	200	200	200	200
	Corn Silage	325	325	325	325	325	325
	Corn Silage (after legumes)	325	325	325	325	325	325
	Wheat (grain only)	175	175	175	175	175	175
	Wheat (grain and straw)						0
	Grasses (Cool season- or Tall-)						0
	Rye (double cropped) ¹						0
Legumes	Soybeans (double cropped) ¹						0
	Soybeans	222.4	222.4	222.4	222.4	222.4	222
	Alfalfa						0
	All Crops (Acres)	1597.4	1597.4	1597.4	1597.4	1597.4	1597.4

Note 1: The acreage of double-cropped fields is only counted once towards the total available for application.
Note 2: ODA Rules limit application rate for N on legume crops to 150 lbs/acre.

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Facility Name: Blue Stream Dairy
Date Prepared: 01/01/12

Beginning Crop Year: 2011
Ending Crop Year: 2016
Plan Period: 5 years

Total Manure Quantity and Estimated Nutrients

	Crop	Yield Goal (bu/ac or ton/ac)	Avg. Annual Acres	Total lbs of Nutrients Recommended/Removed ⁴		
				Nitrogen ⁵	P ₂ O ₅	K ₂ O
Grains/ Grasses	Corn Grain (after grain)	175	350	73,850	22,663	16,538
	Corn Grain (after legumes)	175	200	36,200	12,950	9,450
	Corn Silage	26	325	60,177	27,885	67,600
	Corn Silage (after legumes)	26	325	50,427	27,885	67,600
	Wheat (grain only)		175	-8,313	0	0
	Wheat (grain and straw)	70	0	0	0	0
	Grasses (Cool season- or Tall-)		0	0	0	0
	Rye (double cropped) ¹		0	0	0	0
Legumes	Soybeans (double cropped) ¹		0	0	0	0
	Soybeans	55	222	46,482	9,786	17,125
	Alfalfa		0	0	0	0
All Crops			1597.4	258,823	101,168	178,312

Avg Nutrients Removed (lbs) per acre per year	162	63	112
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Avg Nutrients Removed (lbs) per acre/year (at only 150lbs N/acre for legumes) ²	154	63	112
--	-----	----	-----

Total Manure Nutrients Applied (lbs) per year	36,456	61,694	157,550
---	--------	--------	---------

Avg Manure Nutrients Applied (lbs) per acre per year	23	39	99
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Total Annual Nutrient Balance (Supplied by manure - Crop needs) (lbs)	-222,367	-39,475	-20,762
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Average Acres required to utilize manure N at crop recommendation = 225 acres

Avg Acres required to utilize manure N (only 150 lbs N/ac for legumes) ² = 237 acres

Average Acres required to utilize manure P₂O₅ at crop removal = 974 acres

Average Annual P₂O₅ balance (per acre) ³ = -24.7 lbs P₂O₅/ac

*This worksheet corresponds to Part 11 of ODA Form LEPP-3900-007

Note 1: The acreage of double-cropped fields is only counted once towards the total available for application.

Note 2: ODA Rules limit application rate for N on legume crops to 150 lbs/acre.

Note 3: Average Annual P₂O₅ balance is positive value if nutrients applied per acre exceeds the crop removal rate. It is a negative value if nutrients applied per acre is less than the crop removal rate.

Note 4: Reference Ohio Agronomy Guide and Tri-State Fertilizer Recommendations

Note 5: Recommended N rate, not N removal

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Facility Name: Blue Stream Dairy
Date Prepared: 01/01/12

Average Annual P_2O_5 balance (per acre) from previous page = -24.7 lbs P_2O_5 /ac
Predicted change in soil P (in ppm) each year at avg application rate = -1.2 ppm
Plan period = 5 years
Total acreage available for land application ("spreadable" acres) = 1597 acres

Field ID	Acres Receiving Manure ^{4,5}	Soil Test Sample Date	Starting Soil Test P (ppm)	Beginning Soil Test P Rating ¹	Predicted Soil Test P (ppm) at end of plan period with avg application rate (only manure P added)	Predicted Soil Test P Rating ¹ at end of plan period	N Leaching Potential Index ^{2,3}
1A	25	1/1/2010	49	MED	43.0	MED	HIGH
2A	22	1/1/2010	46	MED	40.0	MED	HIGH
3A	20.4	1/1/2010	37	LOW	31.0	LOW	HIGH
4A	12.3	1/1/2010	23	LOW	17.0	LOW	HIGH
4B	9.3	1/1/2010	23	LOW	17.0	LOW	HIGH
4C	10.3	1/1/2010	23	LOW	17.0	LOW	HIGH
5A	23.9	10/20/2011	13	LOW	7.0	LOW	HIGH
6A	25	1/1/2010	57	MED	51.0	MED	HIGH
6B	24.4	1/1/2010	60	MED	54.0	MED	HIGH
7A	9.3	1/1/2010	74	MED	68.0	MED	HIGH
7B	24.8	10/20/2011	79	MED	73.0	MED	HIGH
7C	23.7	10/20/2011	22	LOW	16.0	LOW	HIGH
8A	18.2	10/20/2011	61	MED	55.0	MED	HIGH
9A	17.2	10/20/2011	81	MED	75.0	MED	HIGH
10A	14.1	10/20/2011	106	HIGH	100.0	HIGH	HIGH
10B	13.8	10/20/2011	56	MED	50.0	MED	HIGH
11A	17.9	10/20/2011	14	LOW	8.0	LOW	HIGH
11B	20.2	10/20/2011	12	LOW	6.0	LOW	HIGH
11C	23.6	10/20/2011	18	LOW	12.0	LOW	HIGH
11D	23	10/20/2011	11	LOW	5.0	LOW	HIGH
12A	24.6	10/20/2011	30	LOW	24.0	LOW	HIGH
12B	15	10/20/2011	56	MED	50.0	MED	HIGH
13A	25	10/20/2011	15	LOW	9.0	LOW	HIGH
14A	23.8	10/20/2011	70	MED	64.0	MED	HIGH
14B	19.2	10/20/2011	74	MED	68.0	MED	HIGH
15A	21.8	10/20/2011	112	HIGH	106.0	HIGH	HIGH
15B	25	1/1/2010	22	LOW	16.0	LOW	HIGH
16A	24.7	1/1/2010	22	LOW	16.0	LOW	HIGH
16B	17.9	4/11/2011	39	LOW	33.0	LOW	HIGH
17A	13.6	4/11/2011	53	MED	47.0	MED	HIGH
17B	10.4	1/1/2010	60	MED	54.0	MED	HIGH
18A	25	1/1/2010	51	MED	45.0	MED	HIGH
18B	21.9	1/1/2010	51	MED	45.0	MED	HIGH
19A	18.4	1/1/2010	51	MED	45.0	MED	HIGH
19B	22.8	1/1/2010	49	MED	43.0	MED	HIGH
20A	21.9	1/1/2010	71	MED	65.0	MED	HIGH
21A	25	10/20/2011	68	MED	62.0	MED	HIGH
21B	15.3	11/16/2011	24	LOW	18.0	LOW	HIGH
21C	16.1	11/16/2011	32	LOW	26.0	LOW	HIGH
21D	22.2	11/16/2011	18	LOW	12.0	LOW	HIGH
22A	15	11/16/2011	15	LOW	9.0	LOW	HIGH

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21E	24.2	11/16/2011	17	LOW	11.0	LOW	HIGH
21F	24.4	11/16/2011	16	LOW	10.0	LOW	HIGH
21G	17	11/16/2011	17	LOW	11.0	LOW	HIGH
21H	20.3	11/16/2011	14	LOW	8.0	LOW	HIGH
21I	16.3	11/16/2011	19	LOW	13.0	LOW	HIGH
22A	20.8	1/1/2010	20	LOW	14.0	LOW	HIGH
22B	21.2	1/1/2010	22	LOW	16.0	LOW	HIGH
22C	23.9	1/1/2010	24	LOW	18.0	LOW	HIGH
23A	16.5	1/1/2010	16	LOW	10.0	LOW	HIGH
23B	18.2	1/1/2010	23	LOW	17.0	LOW	HIGH
24A	17.7	1/1/2010	30	LOW	24.0	LOW	HIGH
24B	15.9	1/1/2010	35	LOW	29.0	LOW	HIGH
25A	24.2	7/21/2011	19	LOW	13.0	LOW	HIGH
25B	25	7/21/2011	25	LOW	19.0	LOW	HIGH
25C	4.3	7/21/2011	31	LOW	25.0	LOW	HIGH
25D	15	7/21/2011	19	LOW	13.0	LOW	HIGH
26A	24.1	4/6/2011	20	LOW	14.0	LOW	HIGH
26B	19.3	4/6/2011	8	LOW	2.0	LOW	HIGH
26C	19	4/6/2011	21	LOW	15.0	LOW	HIGH
26D	17.8	4/6/2011	13	LOW	7.0	LOW	HIGH
26E	15.5	4/6/2011	15	LOW	9.0	LOW	HIGH
26F	16.6	4/6/2011	23	LOW	17.0	LOW	HIGH
26G	13.1	4/6/2011	38	LOW	32.0	LOW	HIGH
DairyA	25	4/6/2011	48	MED	42.0	MED	HIGH
DairyB	25	4/6/2011	75	MED	69.0	MED	HIGH
DairyC	23.2	4/6/2011	52	MED	46.0	MED	HIGH
27A	18.2	8/7/2009	30	LOW	24.0	LOW	HIGH
27B	15.1	8/7/2009	36	LOW	30.0	LOW	HIGH
27C	11	8/7/2009	39	LOW	33.0	LOW	HIGH
27D	11.1	8/7/2009	32	LOW	26.0	LOW	HIGH
27E	10.4	8/7/2009	28	LOW	22.0	LOW	HIGH
27F	17.5	8/7/2009	39	LOW	33.0	LOW	HIGH
27G	24.8	8/7/2009	38	LOW	32.0	LOW	HIGH
27H	17.6	8/7/2009	39	LOW	33.0	LOW	HIGH
28A	3	4/4/2011	102	HIGH	96.0	MED	HIGH
28B	10	4/4/2011	77	MED	71.0	MED	HIGH
28C	4.4	4/4/2011	116	HIGH	110.0	HIGH	HIGH
28D	11.9	4/4/2011	98	MED	92.0	MED	HIGH
28E	8.6	4/4/2011	56	MED	50.0	MED	HIGH
28F	19.8	4/4/2011	83	MED	77.0	MED	HIGH
29A	25	4/12/2010	46	MED	40.0	MED	HIGH
29B	25	4/12/2010	36	LOW	30.0	LOW	HIGH
29C	21	4/12/2010	22	LOW	16.0	LOW	HIGH
29D	13	4/12/2010	31	LOW	25.0	LOW	HIGH
31A	1	1/1/2011	61	MED	55.0	MED	HIGH
31B	11	1/1/2011	115	HIGH	109.0	HIGH	HIGH
32A	11.5	1/1/2011	72	MED	66.0	MED	HIGH

Total = 1597.4 acres available for land application (or spreadable acres)

*This sheet corresponds to Part 12 of ODA Form LEPP-3900-007.

Note 1: See Appendix E to Table 2 of Rule 901:10-2-14 for P Soil Test Level

Note 2: See Appendix C to Table 5 of Rule 901:10-2-14 for N Leaching Assessment Procedures

Note 3: All systematically tiled fields are considered to have a HIGH N Leaching Potential

Note 4: Spreadable acres available for land application in that field, **not** including setbacks.

Note 5: Each soil test can represent no more than 25 acres (1 test every 25 acres or less).

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**Bluestream Dairy Expansion
Manure Volumes
January 23, 2012**

1. Dairy Operations

Manure						To Storage Pond
Cow Type	Gals/day/cow	x No. of Cows	x Storage Period (days)	=	Gals	
Dry	13.6	300	365		1,489,200	(gals) 1,489,200
Lactating	17.7	1700	365		10,982,850	(gals) 10,982,850
b. Bedding Density Sand = 102 lbs/ft ³						
Type	Bedding (lbs)	x No. of Cows	x Storage Period (days)	=	Total Bedding	
Sand	40	2000	365		29,200,000	(lbs)
					286,275	(ft ³)
					2,141,333	(gals)
					Adjusted Bedding to Settling Basin (Assume 95% Removal Efficiency)	
					107,067	(gals) 107,067
c. Wash water						
	Gals/day/cow	x No. of Cows	x Storage Period (days)	=	Gals	
	8	2000	365		5,840,000	(gals) 5,840,000
Total Manure Volume (includes manure, bedding and wash water)					SUBTOTAL	(gals) 18,419,117

2. Normal Precipitation

a. Average precipitation less evaporation on the storage pond and settling basin

See table below and pond cross section			
Month	Precipitation (in)	Evaporation (in)	30 yr avg net (in)
January	2.40	0.70	1.70
February	2.10	0.80	1.30
March	2.90	1.60	1.30
April	3.50	2.80	0.70
May	3.90	4.30	-0.40
June	3.90	5.10	-1.20
July	3.60	5.10	-1.50
August	2.80	4.50	-1.70
September	2.80	3.22	-0.42
October	2.60	2.27	0.33
November	2.70	1.16	1.54
December	2.30	0.68	1.62
Totals	35.50	32.23	3.27
Collection area			= 7.15 acres (existing ponds and settling basin)(shown in tan)
Total Area			= 7.15
Net collected	SUBTOTAL	=	84,871 ft ³ SUBTOTAL (gals) 634,837

b. Normal runoff from facility into ponds

Total annual average precipitation	=	35.50	inches
Runoff areas are all impermeable surfaces	=	2.68	acres (shown in GREEN on this sheet)
Runoff factor at 52% of precipitation	=	18.46	inches (AWMFH Figure 10C-2)
Total runoff	SUBTOTAL	=	179,586 ft ³ SUBTOTAL (gals) 1,343,305

3. 100 Year Precipitation

a. 100-year 24-hour precipitation on pond #1 surface and settling basin

100-year 24-hour storm	=	5.4	inches
Pond #1 and Settling Basin area	=	3.42	acres
Collected precipitation	SUBTOTAL	=	67,039 ft ³ SUBTOTAL (gals) 501,451

b. Runoff 100-year 24-hour storm from facility into pond #1

100-year 24-hour storm rainfall	=	5.4	inches		
Runoff areas	=	2.68	acres		
Runoff Curve Number	=	98			
Runoff	=	5.16	inches from TR-55 Fig 2.1		
Total runoff	SUBTOTAL	= 50,199	ft³ SUBTOTAL	(gals)	375,485

4. Silage Leachate Seepage**a. Leachate seepage**

Seepage	=	1.0	cubic feet per ton of stored silage		
Silage storage per acre	=	21500	tons per silage acre		
Silage storage area	=	1.00	acres (actual storage area)		
Silage Leachate Seepage Volum	SUBTOTAL	= 21,500	ft³ SUBTOTAL	(gals)	160,820

5. Residual Solids**a. Residual solids**

Depth allowed for residual solids storage	=	12	inches		
Floor area of pond	=	2.21	acres (1 existing pond + ponds 2,3 and 4)		
Total volume	SUBTOTAL	= 96,268	ft³ SUBTOTAL	(gals)	720,082

REQUIRED STORAGE VOLUME FOR 365 DAYS (including 100 year storm volume)	(gals)	22,155,096
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6. 100 Year/24 Hour Storm Rainfall and Run-off

100 year rain event will be spread over manure pond #1

Rainfall and Run-off from 100 Year/24 Hour Storm	=	117,237	ft ³ (Sections 3a and 3b)
Pond area of Pond @ Operating Level		2.70	acres (existing pond)
Depth needed to store 100 year rainfall and runoff		1.0	ft (difference between design and operating levels for pond #1)

7. Daily Generation Volume

Annual Manure Generation	manure, sand, wash water, normal rainfall and runoff and leachate	20,558,079	gal
Manure generation per day		56,324	gal/day
Days of storage	249 days (conservatively assumed at ponds 1 and 4 only)		pond configuration allows for significant flexibility

8. Total Days Liquid Manure Storage Provided

Existing East Sand Settling Basin	300,000 gal half capacity at max operating level
Storage days	5 days
Existing Manure Pond #1 at MOL	11,169,056 gal at max operating level
Storage days	198 days
Existing Manure Pond #2 at MOL	2,541,794 gal at max operating level (105.3)
Storage days	45 days
Existing Manure Pond #3 at MOL	3,478,566 gal at max operating level
Storage days	62 days
at lower flow thru level (est 104.0)	3,058,139 gal at lower flow thru level (est 104.0)
Storage days	54 days
Existing Manure Pond #4 at MOL	3,435,144 gal at max operating level
Storage days	61 days
at lower flow thru level (est 103.4)	2,842,793 gal at lower flow thru level (est 103.4)
Storage days	50 days

Summary of Blue Steam Manure Analysis

Mike Brugger

5/9/2012

Lagoon	Total N	Ammonia N	Organic N	P2O5	K2O	Moisture
2010 - October	5.2	2.7	2.5	3.5	10.1	98.5
2010 October, 3A	4.4	2.5	1.9	2.3	10.0	98.9
2010 - October, 3B	4.6	2.5	2.1	2.4	10.1	98.9
2011 - June	8.2	6.2	2.1	3.5	8.8	98.4
2011 - August	5.6	4.3	1.2	1.9	7.2	99.3
2012 - March	7.6	4.9	2.7	2.2	7.1	99.0
Average	5.93	3.85	2.08	2.63	8.88	98.83

Concrete pit

Jun-11

2011 - June	15.2	9.7	5.5	7	11.9	96.5
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Solids from Concrete Pit

2011 - August	9	3.3	5.7	8.3	12.9	57.2
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F10280-60
ACCOUNT NUMBER
99980

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QUALITY ANALYSES FOR INFORMED DECISIONS

TO: BLUE STREAM DAIRY
3242 MENZTER CHURCH RD
CONVOY, OH 45832

LAB NUMBER: 52427
MANURE TYPE: BEEF, LAGOON
SAMPLE ID: DAY 1

PURCHASE ORDER: 280-6003

DATE SAMPLED: 10/05/2010
DATE RECEIVED: 10/07/2010
DATE REPORTED: 10/12/2010 PAGE: 1 of 3

MANURE ANALYSIS REPORT

PARAMETER	UNIT	ANALYSIS RESULT	TOTAL POUNDS PER 1,000 GAL**	FIRST YEAR AVAILABILITY @ POUNDS PER 1,000 GAL
Moisture	%	98.50	8205.0	
Solids	%	1.50	124.9	
Nitrogen, Total (TKN)	%	0.062	5.2	3.3 *
Nitrogen, Ammonium (NH4-N)	%	0.032	2.7	2.7 *
Nitrogen, Organic (N)	%	0.030	2.5	0.6 *
Phosphorus (P)	%	0.018	3.5 (as P2O5)	3.5 (as P2O5) *
Potassium (K)	%	0.101	10.1 (as K2O)	10.1 (as K2O) *
Sulfur (S)	%	0.01	0.9	0.5 #
Magnesium (Mg)	%	0.04	3.3	1.8 #
Calcium (Ca)	%	0.08	6.6	3.7 #
Sodium (Na)	%	0.05	3.9	
Aluminum (Al)	ppm	136	1.1	
Copper (Cu)	ppm	4.4	<0.1	<0.1 #
Iron (Fe)	ppm	97	0.8	0.5 #
Manganese (Mn)	ppm	7.0	0.1	<0.1 #
Zinc (Zn)	ppm	11	0.1	0.1 #

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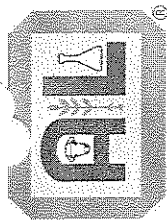
@ Estimate of first-year availability does not account for incorporation losses. Consult MWPS-18, "Livestock Waste Facilities Handbook" for additional information.
* Source: MWPS-18, Livestock Waste Facilities Handbook, 1993
** Manure density assumed to be 8.33 lb/gallon

REPORT NO.
F10280-60
ACCOUNT NUMBER
99990

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QUALITY ANALYSES FOR INFORMED DECISIONS

TO: BLUE STREAM DAIRY
3242 MENZTER CHURCH RD
CONVOY, OH 45832

PURCHASE ORDER: 280-6003

LAB NUMBER: 52428

MANURE TYPE: BEEF, LAGOON

SAMPLE ID: DAY 3A

MANURE ANALYSIS REPORT

DATE SAMPLED: 10/05/2010

DATE RECEIVED: 10/07/2010

DATE REPORTED: 10/12/2010 PAGE: 2 of 3

PARAMETER	UNIT	ANALYSIS RESULT	TOTAL POUNDS PER 1,000 GAL**	FIRST YEAR AVAILABILITY @ POUNDS PER 1,000 GAL
Moisture	%	98.92	8240.0	
Solids	%	1.08	90.0	
Nitrogen, Total (TKN)	%	0.053	4.4	3.0 *
Nitrogen, Ammonium (NH4-N)	%	0.030	2.5	2.5 *
Nitrogen, Organic (N)	%	0.023	1.9	0.5 *
Phosphorus (P)	%	0.012	2.3 (as P2O5)	2.3 (as P2O5) *
Potassium (K)	%	0.100	10.0 (as K2O)	10.0 (as K2O) *
Sulfur (S)	%	0.01	0.7	0.5 #
Magnesium (Mg)	%	0.03	2.9	1.4 #
Calcium (Ca)	%	0.06	4.6	2.7 #
Sodium (Na)	%	0.05	4.2	
Aluminum (Al)	ppm	73	0.6	
Copper (Cu)	ppm	3.2	<0.1	<0.1 #
Iron (Fe)	ppm	74	0.6	0.4 #
Manganese (Mn)	ppm	4.7	<0.1	<0.1 #
Zinc (Zn)	ppm	8.1	0.1	<0.1 #

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@ Estimate of first-year availability does not account for incorporation losses. Consult MWPS-18, "Livestock Waste Facilities Handbook" for additional information.
* Source: MWPS-18, Livestock Waste Facilities Handbook, 1993
** Manure density assumed to be 8.38 lb/gallon

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QUALITY ANALYSES FOR INFORMED DECISIONS

TO: BLUE STREAM DAIRY
3242 MENZTER CHURCH RD
CONVOY, OH 45832

PURCHASE ORDER: 280-6003

LAB NUMBER: 52429
MANURE TYPE: BEEF, LAGOON
SAMPLE ID: DAY 3B

DATE SAMPLED: 10/05/2010
DATE RECEIVED: 10/07/2010
DATE REPORTED: 10/12/2010 PAGE: 3 of 3

MANURE ANALYSIS REPORT

PARAMETER	UNIT	ANALYSIS RESULT	TOTAL POUNDS PER 1,000 GAL**	FIRST YEAR AVAILABILITY @ POUNDS PER 1,000 GAL
Moisture	%	98.92	8240.0	
Solids	%	1.08	90.0	
Nitrogen, Total (TKN)	%	0.055	4.6	3.0 *
Nitrogen, Ammonium (NH4-N)	%	0.030	2.5	2.5 *
Nitrogen, Organic (N)	%	0.025	2.1	0.5 *
Phosphorus (P)	%	0.013	2.4 (as P2O5)	2.4 (as P2O5) *
Potassium (K)	%	0.101	10.1 (as K2O)	10.1 (as K2O) *
Sulfur (S)	%	0.01	0.7	0.5 #
Magnesium (Mg)	%	0.01	1.1	0.5 #
Calcium (Ca)	%	0.06	4.7	2.7 #
Sodium (Na)	%	0.05	3.9	
Aluminum (Al)	ppm	30	0.3	
Copper (Cu)	ppm	1.5	<0.1	<0.1 #
Iron (Fe)	ppm	33	0.3	0.2 #
Manganese (Mn)	ppm	2.2	<0.1	<0.1 #
Zinc (Zn)	ppm	3.4	<0.1	<0.1 #

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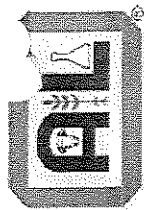
@ Estimate of first-year availability does not account for incorporation losses. Consult MWPS-18, "Livestock Waste Facilities Handbook" for additional information.

* Source: MWPS-18, Livestock Waste Facilities Handbook, 1993

** Manure density assumed to be 8.33 lb/gallon

REPORT
F11164-600
ACCOUNT NUMBER
08530

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QUALITY ANALYSES FOR INFORMED DECISIONS

TO: BLUE STREAM DAIRY INC.
3242 MENTZER CHURCH RD
CONVOY, OH 45832-9579

ATTN: JOHN STEPLETON

LAB NUMBER: 55233

MANURE TYPE: BEEF, LAGOON

SAMPLE ID: B

MANURE ANALYSIS REPORT

DATE SAMPLED: 06/07/2011

DATE RECEIVED: 06/13/2011

DATE REPORTED: 06/14/2011 PAGE: 3 of 4

PARAMETER	UNIT	ANALYSIS RESULT	TOTAL POUNDS PER 1,000 GAL**	FIRST YEAR AVAILABILITY @ POUNDS PER 1,000 GAL
Moisture	%	98.40	8196.7	
Solids	%	1.60	133.3	
Nitrogen, Total (TKN)	%	0.099	8.2	6.7 *
Nitrogen, Ammonium (NH4-N)	%	0.074	6.2	6.2 *
Nitrogen, Organic (N)	%	0.025	2.1	0.5 *
Phosphorus (P)	%	0.018	3.5 (as P2O5)	3.5 (as P2O5) *
Potassium (K)	%	0.088	8.8 (as K2O)	8.8 (as K2O) *
Sulfur (S)	%	0.01	0.9	0.5 #
Magnesium (Mg)	%	0.03	2.2	1.4 #
Calcium (Ca)	%	0.06	5.2	2.7 #
Sodium (Na)	%	0.04	3.4	
Aluminum (Al)	ppm	40	0.3	
Copper (Cu)	ppm	5.6	<0.1	<0.1 #
Iron (Fe)	ppm	47	0.4	0.3 #

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@ Estimate of first-year availability does not account for incorporation losses. Consult MWPS-18, "Livestock Waste Facilities Handbook" for additional information.
* Source: MWPS-18, Livestock Waste Facilities Handbook, 1993
** Manure density assumed to be 8.33 lb/gallon

REPORT NO.
F11227-6C
ACCOUNT NUMBER
08530

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QUALITY ANALYSES FOR INFORMED DECISIONS

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TO: BLUESTREAM DAIRY INC.
3242 MENTZER CHURCH RD
CONVOY, OH 45832-9579

Manure Pond #4

ATTN: JOHN STEPLETON

LAB NUMBER: 56116

MANURE TYPE: DAIRY, LIQUID-RIT

SAMPLE ID: A *Large*

DATE SAMPLED: 08/11/2011

DATE RECEIVED: 08/15/2011

DATE REPORTED: 08/22/2011 PAGE: 1 of 4

MANURE ANALYSIS REPORT

PARAMETER	ANALYSIS RESULT	UNIT	TOTAL POUNDS PER 1,000 GAL**	FIRST YEAR AVAILABILITY @ POUNDS PER 1,000 GAL
Moisture	99.30	%	8271.7	
Solids	0.70	%	58.3	
Nitrogen, Total (TKN)	0.067	%	5.6	4.7 *
Nitrogen, Ammonium (NH4-N)	0.052	%	4.3	4.3 *
Nitrogen, Organic (N)	0.015	%	1.2	0.4 *
Phosphorus (P)	0.010	%	1.9 (as P2O5)	1.9 (as P2O5) *
Potassium (K)	0.072	%	7.2 (as K2O)	7.2 (as K2O) *
Sulfur (S)	0.00	%	0.4	<0.1 #
Magnesium (Mg)	0.02	%	2.1	0.9 #
Calcium (Ca)	0.03	%	2.7	1.4 #
Sodium (Na)	0.05	%	4.3	
Aluminum (Al)	14	ppm	0.1	
Copper (Cu)	2.7	ppm	<0.1	<0.1 #
Iron (Fe)	21	ppm	0.2	0.1 #

@ Estimate of first-year availability does not account for incorporation losses. Consult MWPS-18, "Livestock Waste Facilities Handbook" for additional information.

* Source: MWPS-18, Livestock Waste Facilities Handbook, 1993. # Source: A3411, "Manure Nutrient Credit Worksheet", University of Wisconsin

** Manure density assumed to be 8.33 lb/gallon

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MAY - 9 2012

Report Approved By:

Lois K. Parker

Lois K. Parker - President

Approval Date: 8/22/2011

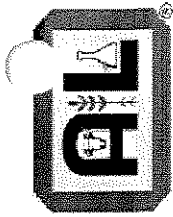
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F12083-600,
ACCOUNT NUMBER
08530

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QUALITY ANALYSES FOR INFORMED DECISIONS



TO: BLUE STREAM DAIRY INC.
3242 MENTZER CHURCH RD
CONVOY, OH 45832-9579

ATTN: JOHN STEPLETON

LAB NUMBER: 59583

MANURE TYPE: DAIRY, LAGOON

SAMPLE ID: 3-20-12

DATE SAMPLED: 03/20/2012

DATE RECEIVED: 03/23/2012

DATE REPORTED: 03/26/2012 PAGE: 1 of 4

MANURE ANALYSIS REPORT

PARAMETER	UNIT	ANALYSIS RESULT	TOTAL POUNDS PER 1,000 GAL**	FIRST YEAR AVAILABILITY @ POUNDS PER 1,000 GAL
Moisture	%	99.04	8250.0	
Solids	%	0.96	80.0	
Nitrogen, Total (TKN)	%	0.091	7.6	5.6 *
Nitrogen, Ammonium (NH4-N)	%	0.059	4.9	4.9 *
Nitrogen, Organic (N)	%	0.032	2.7	0.7 *
Phosphorus (P)	%	0.012	2.2 (as P2O5)	2.2 (as P2O5) *
Potassium (K)	%	0.071	7.1 (as K2O)	7.1 (as K2O) *
Sulfur (S)	%	0.01	0.8	0.5 #
Magnesium (Mg)	%	0.02	2.1	0.9 #
Calcium (Ca)	%	0.04	3.1	1.8 #
Sodium (Na)	%	0.04	3.0	
Aluminum (Al)	ppm	18	0.2	
Copper (Cu)	ppm	4.3	<0.1	<0.1 #
Iron (Fe)	ppm	30	0.3	0.2 #

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@ Estimate of first-year availability does not account for incorporation losses. Consult MWPS-18, "Livestock Waste Facilities Handbook" for additional information.

* Source: MWPS-18, Livestock Waste Facilities Handbook, 1993

** Manure density assumed to be 8.33 lb/gallon

MAY - 9 2012

Report Approved By:

Lois K. Parker - President

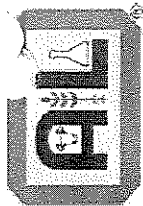
Approval Date: 3/26/2012

REPORT
F11164-600
ACCOUNT NUMBER
08530

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QUALITY ANALYSES FOR INFORMED DECISIONS



Concrete
P.T.

Mike - 0114
330-266

TO: BLUE STREAM DAIRY INC.
3242 MENTZER CHURCH RD
CONVOY, OH 45832-9579

ATTN: JOHN STEPLETON

LAB NUMBER: 55232

MANURE TYPE: BEEF, LAGOON

SAMPLE ID: A

DATE SAMPLED: 06/07/2011

DATE RECEIVED: 06/13/2011

DATE REPORTED: 06/14/2011 PAGE: 1 of 4

MANURE ANALYSIS REPORT

PARAMETER	UNIT	ANALYSIS RESULT	TOTAL POUNDS PER 1,000 GAL**	FIRST YEAR AVAILABILITY @ POUNDS PER 1,000 GAL
Moisture	%	96.48	8036.8	
Solids	%	3.52	293.2	
Nitrogen, Total (TKN)	%	0.183	15.2	11.1 *
Nitrogen, Ammonium (NH4-N)	%	0.117	9.7	9.7 *
Nitrogen, Organic (N)	%	0.066	5.5	1.4 *
Phosphorus (P)	%	0.037	7.0 (as P2O5)	7.0 (as P2O5) *
Potassium (K)	%	0.119	11.9 (as K2O)	11.9 (as K2O) *
Sulfur (S)	%	0.02	1.9	0.9 #
Magnesium (Mg)	%	0.05	4.3	2.3 #
Calcium (Ca)	%	0.11	9.3	5.0 #
Sodium (Na)	%	0.08	6.5	
Aluminum (Al)	ppm	88	0.7	
Copper (Cu)	ppm	14	0.1	0.1 #
Iron (Fe)	ppm	113	0.9	0.6 #

@ Estimate of first-year availability does not account for incorporation losses. Consult MWPS-18, "Livestock Waste Facilities Handbook" for additional information.

* Source: MWPS-18, Livestock Waste Facilities Handbook, 1993

** Manure density assumed to be 8.33 lb/gallon

Lois K. Parker

Report Approved By:

Approval Date: 6/14/2011

Lois K. Parker - President

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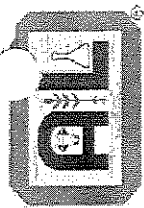
REPORT NO.
F11237-601

ACCOUNT NUMBER
08530

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QUALITY ANALYSES FOR INFORMED DECISIONS



TO: BLUE STREAM DAIRY INC.
3242 MENTZER CHURCH RD
CONVOY, OH 45832-9579

ATTN: JOHN STEPLETON

LAB NUMBER: 56442

MANURE TYPE: DAIRY, SOLID WITH BEDDING

SAMPLE ID: B

Slurry Bedding

DATE SAMPLED: 08/24/2011

DATE RECEIVED: 08/25/2011

DATE REPORTED: 08/31/2011 PAGE: 3 of 4

MANURE ANALYSIS REPORT

PARAMETER	UNIT	ANALYSIS RESULT	TOTAL POUNDS PER TON	FIRST YEAR AVAILABILITY @ POUNDS PER TON
Moisture	%	57.25	1145.0	
Solids	%	42.75	855.0	
Nitrogen, Total (TKN)	%	1.308	26.2	9.0 *
Nitrogen, Ammonium (NH4-N)	%	0.166	3.3	3.3 *
Nitrogen, Organic (N)	%	1.142	22.8	5.7 *
Phosphorus (P)	%	0.180	8.3 (as P2O5)	8.3 (as P2O5) *
Potassium (K)	%	0.537	12.9 (as K2O)	12.9 (as K2O) *
Sulfur (S)	%	0.11	2.1	1.2 #
Magnesium (Mg)	%	0.15	3.0	1.7 #
Calcium (Ca)	%	0.44	8.7	4.8 #
Sodium (Na)	%	0.29	5.8	
Aluminum (Al)	ppm	141	0.3	
Copper (Cu)	ppm	12	<0.1	<0.1 #
Iron (Fe)	ppm	225	0.5	0.3 #

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@ Estimate of first-year availability does not account for incorporation losses. Consult MWPS-18, "Livestock Waste Facilities Handbook" for additional information.

* Source: MWPS-18, Livestock Waste Facilities Handbook, 1993

Source: A3411, "Manure Nutrient Credit Worksheet", University of Wisconsin

INDEX

Soils Maps for Land Application Sites

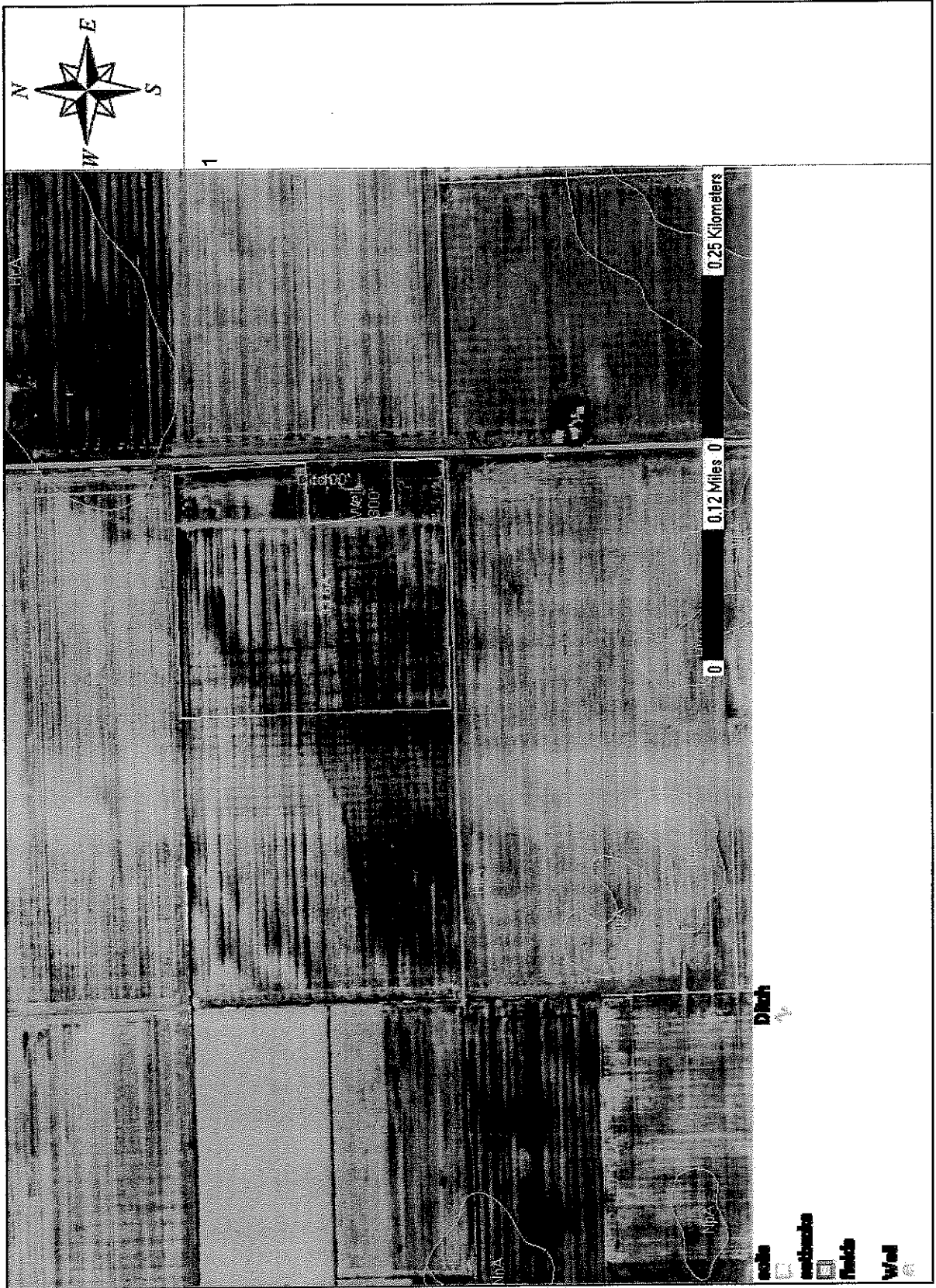
Blue Stream Dairy Expansion

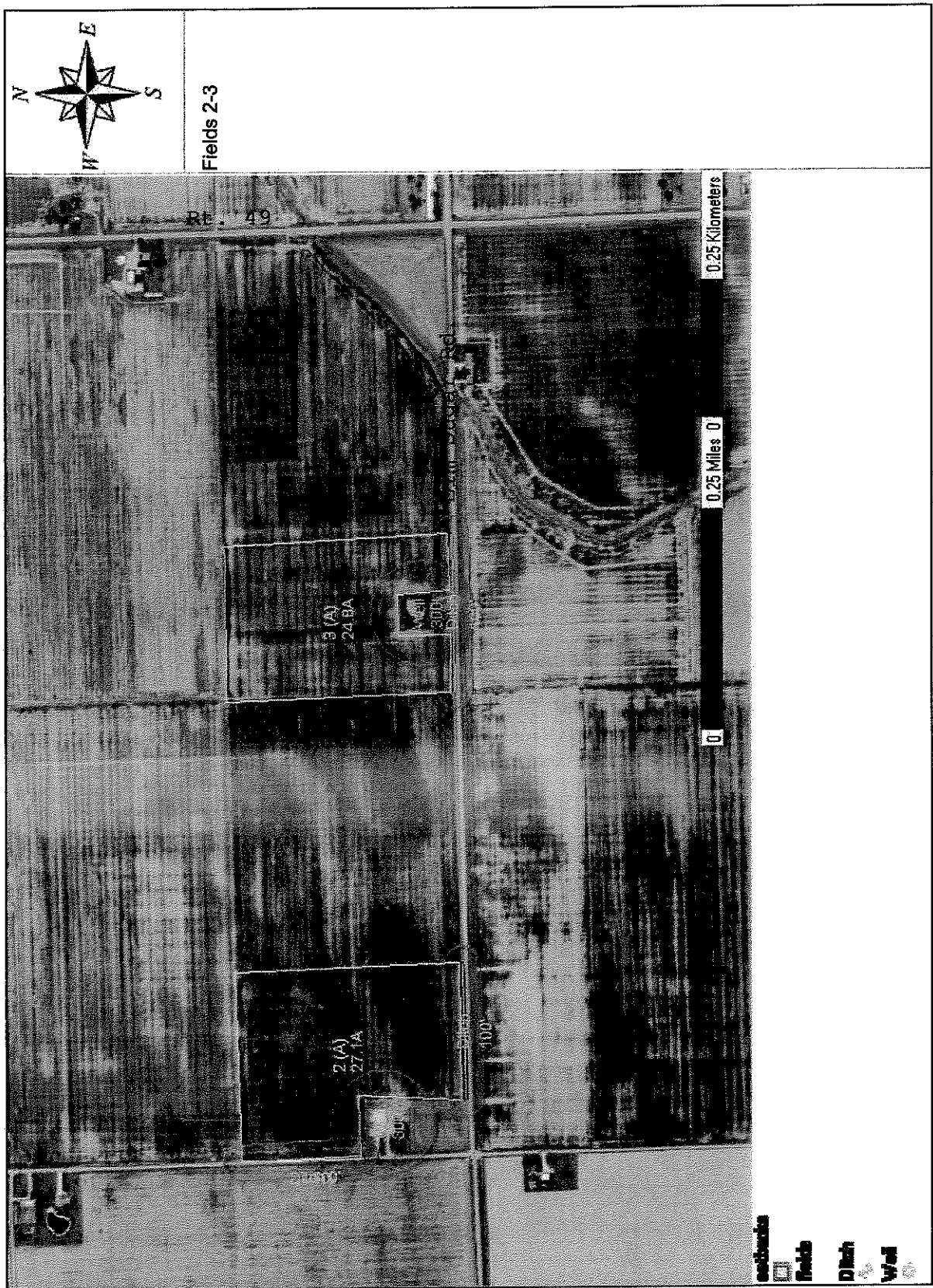
January 6, 2012

Field ID	Approx Tillable Acres	Description	Location
1A	25	Harting	Section 27, Benton Township
2A	22	Harting	Section 3, Tully Township
3A	20.4	Harting	Section 3, Tully Township
4A	12.3	WRDDS	Section 17, Tully Township
4B	9.3	WRDDS	Section 17, Tully Township
4C	10.3	WRDDS	Section 17, Tully Township
5A	23.9	Harting	Section 20, Tully Township
6A	25	Harting	Section 21, Tully Township
6B	24.4	Harting	Section 21, Tully Township
6C	9.3	Harting	Section 21, Tully Township
7A	24.8	Harting	Section 28, Tully Township
7B	23.7	Harting	Section 28, Tully Township
7C	18.2	Harting	Section 28, Tully Township
8A	17.2	Harting	Section 28, Tully Township
9A	14.1	Harting	Section 28, Tully Township
10A	13.8	Harting	Section 28, Tully Township
10B	17.9	Harting	Section 28, Tully Township
11A	20.2	Harting	Section 28, Tully Township
11B	23.6	Harting	Section 28, Tully Township
11C	23	Harting	Section 28, Tully Township
11D	24.6	Harting	Section 28, Tully Township
12A	15	Harting	Section 4, Harrison Township
12B	25	Harting	Section 4, Harrison Township
13A	23.8	Harting	Section 4, Harrison Township
14A	19.2	Harting	Section 4, Harrison Township
14B	21.8	Harting	Section 4, Harrison Township
15A	25	Christian	Section 3, Harrison Township
15B	24.7	Christian	Section 3, Harrison Township
16A	17.9	Harting	Section 34, Tully Township
16B	13.6	Harting	Section 34, Tully Township
17A	10.4	Harting	Section 34, Tully Township
17B	25	Harting	Section 34, Tully Township
18A	21.9	Harting	Section 34, Tully Township
18B	18.4	Harting	Section 34, Tully Township
19A	22.8	Harting	Section 35, Tully Township
19B	21.9	Harting	Section 35, Tully Township
20A	25	Harting	Section 35, Tully Township
21A	15.3	Payne	Section 34, Harrison Township
21B	16.1	Payne	Section 34, Harrison Township
21C	22.2	Payne	Section 34, Harrison Township
21D	15	Payne	Section 34, Harrison Township
21E	24.2	Payne	Section 34, Harrison Township
21F	24.4	Payne	Section 34, Harrison Township

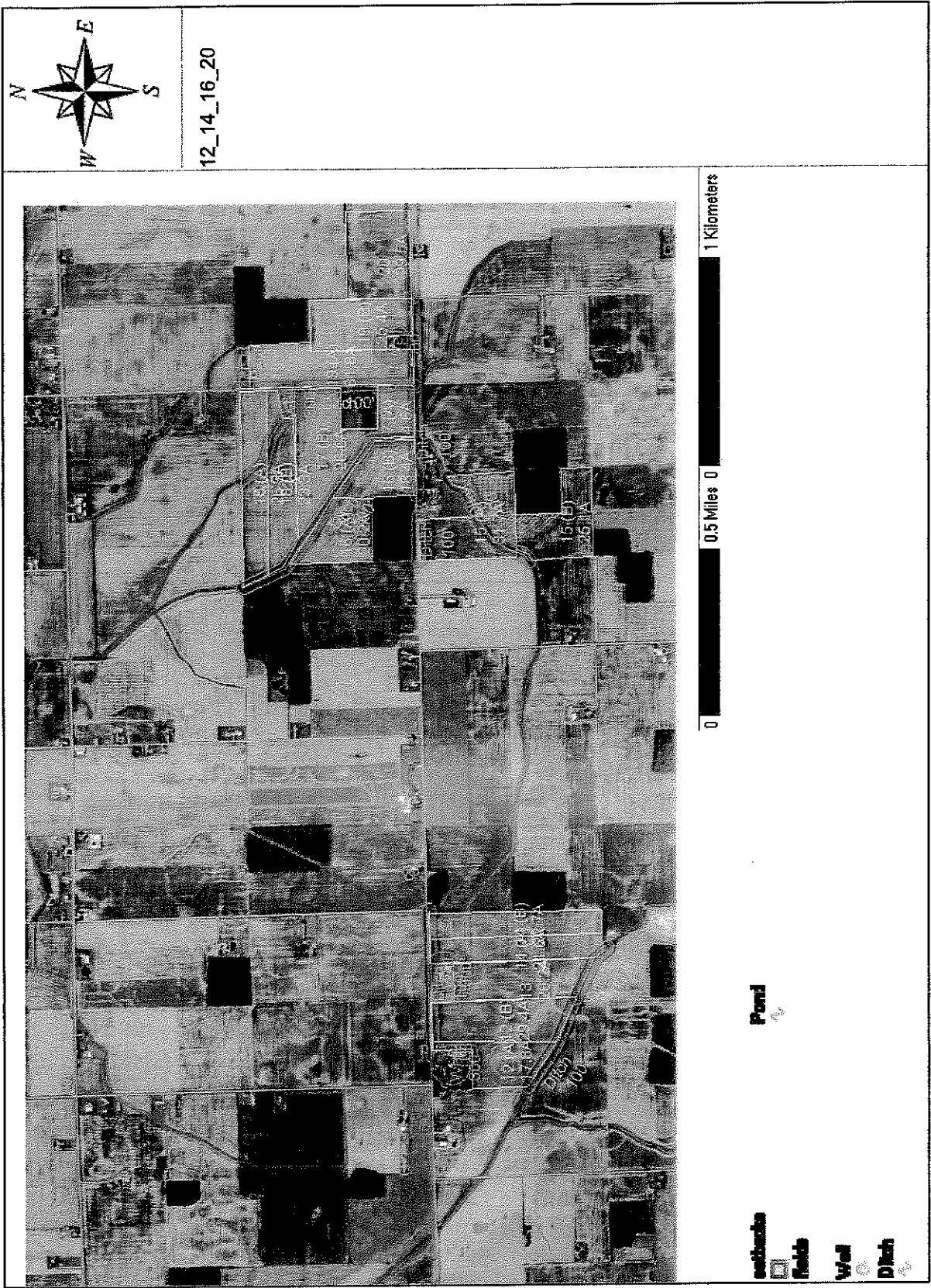
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21H	20.3	Payne	Section 34, Harrison Township
21I	16.3	Payne	Section 34, Harrison Township
22A	20.8	Ackerman	Section 23, Tully Township
22B	21.2	Ackerman	Section 23, Tully Township
22C	23.9	Ackerman	Section 23, Tully Township
23A	16.5	Harting	Section 26, Tully Township
23B	18.2	Harting	Section 26, Tully Township
24A	17.7	Fabian	Section 27, Tully Township
24B	15.9	Fabian	Section 27, Tully Township
25A	24.2	Perkins	Section 7, Tully Township
25B	25	Perkins	Section 7, Tully Township
25C	4.3	Perkins	Section 7, Tully Township
25D	15	Perkins	Section 7, Tully Township
26A	24.1	Fulk	Section 9, Tully Township
26B	19.3	Fulk	Section 9, Tully Township
26C	19	Fulk	Section 9, Tully Township
26D	17.8	Fulk	Section 9, Tully Township
26E	15.5	Fulk	Section 9, Tully Township
26F	16.6	Fulk	Section 9, Tully Township
26G	13.1	Fulk	Section 9, Tully Township
DairyA	25	Dairy	Section 17, Tully Township
Dairy B	25	Dairy	Section 17, Tully Township
Dairy C	23.2	Dairy	Section 17, Tully Township
27A	18.2	Defiance Trail	Rt 117, Allen County
27B	15.1	Defiance Trail	Rt 117, Allen County
27C	11	Defiance Trail	Rt 117, Allen County
27D	11.1	Defiance Trail	Rt 117, Allen County
27E	10.4	Defiance Trail	Rt 117, Allen County
27F	17.5	Defiance Trail	Rt 117, Allen County
27G	24.8	Defiance Trail	Rt 117, Allen County
27H	17.6	Defiance Trail	Rt 117, Allen County
28A	3	Hak	Section 17, Tully Township
28B	10	Hak	Section 17, Tully Township
28C	4.4	Hak	Allen County-Flatrock Rd.
28D	11.9	Hak	Allen County-Rowe Rd.
28E	8.6	Hak	Allen County-Rowe Rd.
28F	19.8	Hak	Allen County-Monroeville Rd.
29A	25	Woodburn	Husted Rd., Allen Co.
29B	25	Woodburn	Husted Rd., Allen Co.
29C	21	Woodburn	Husted Rd., Allen Co.
29D	13	Woodburn	Husted Rd., Allen Co.
31A	1	Kill	S. Co. Line Rd, Allen Co.
31B	11	Kill	S. Co. Line Rd, Allen Co.
32A	11.5	Kill	Flatrock Rd., Allen Co.
Totals	1597.4		

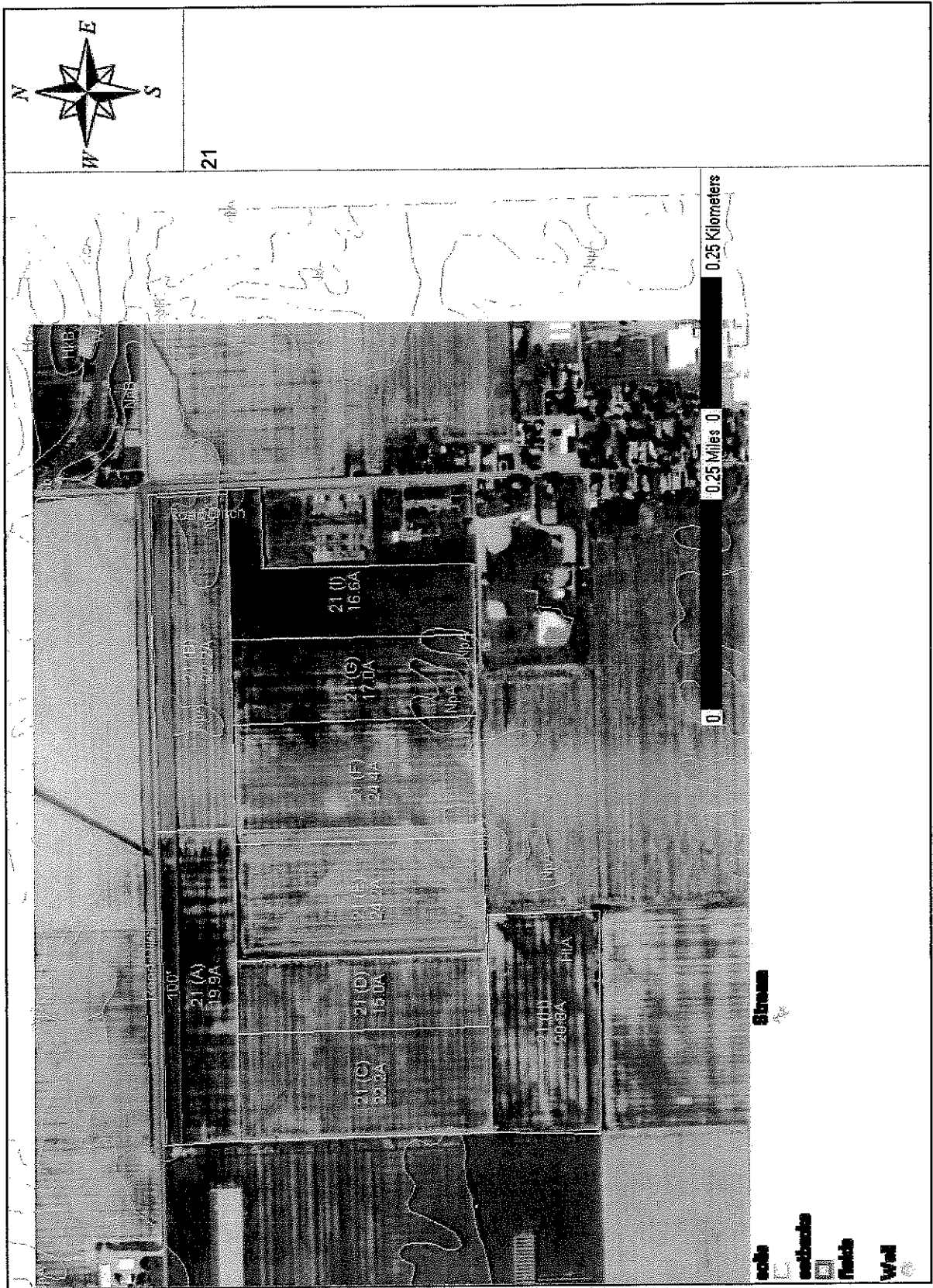
Additional fields are owned by the Dairy owner and operator and are available for manure application. These fields are expected to be added as part of the ongoing dairy operation.



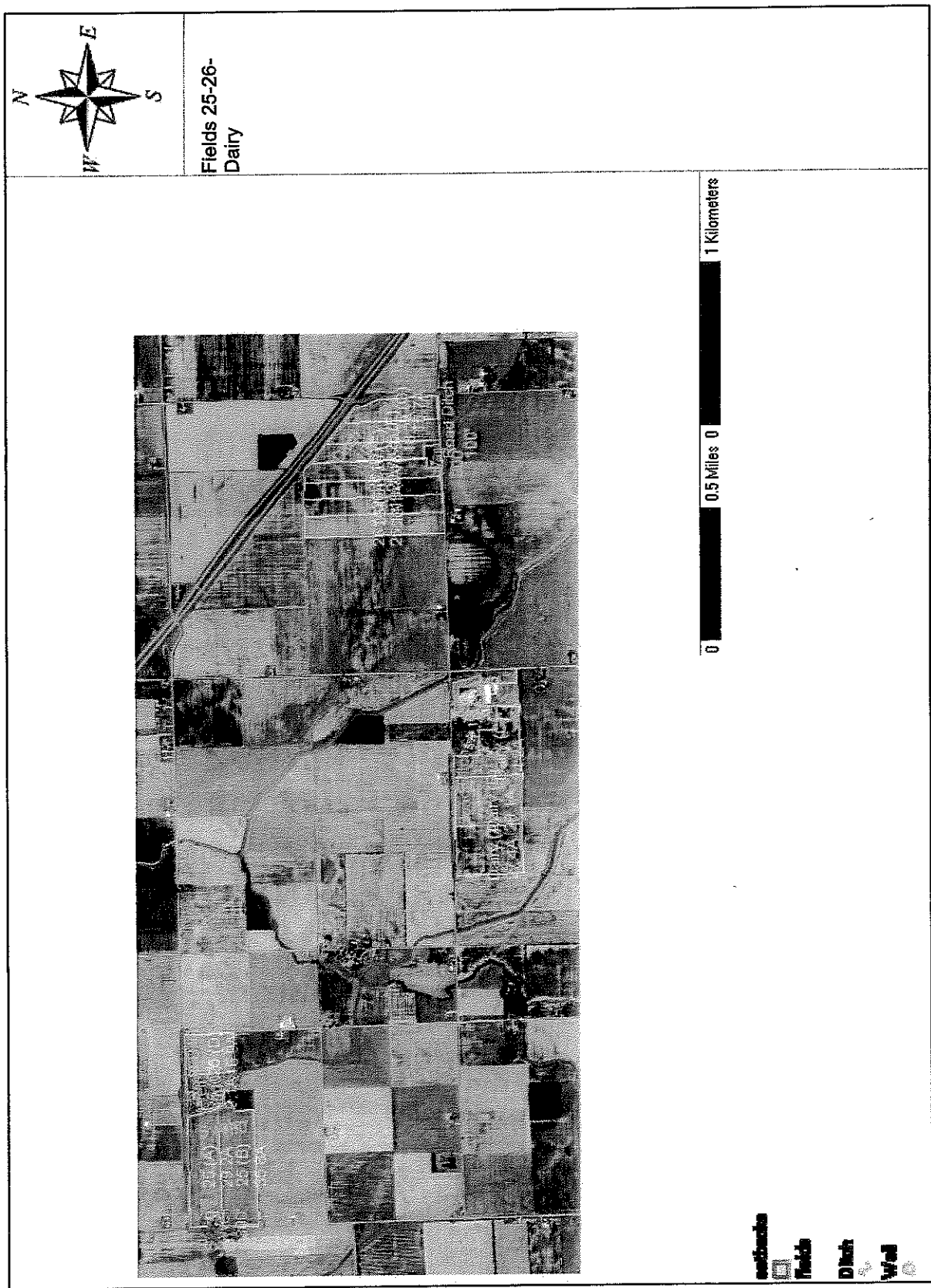


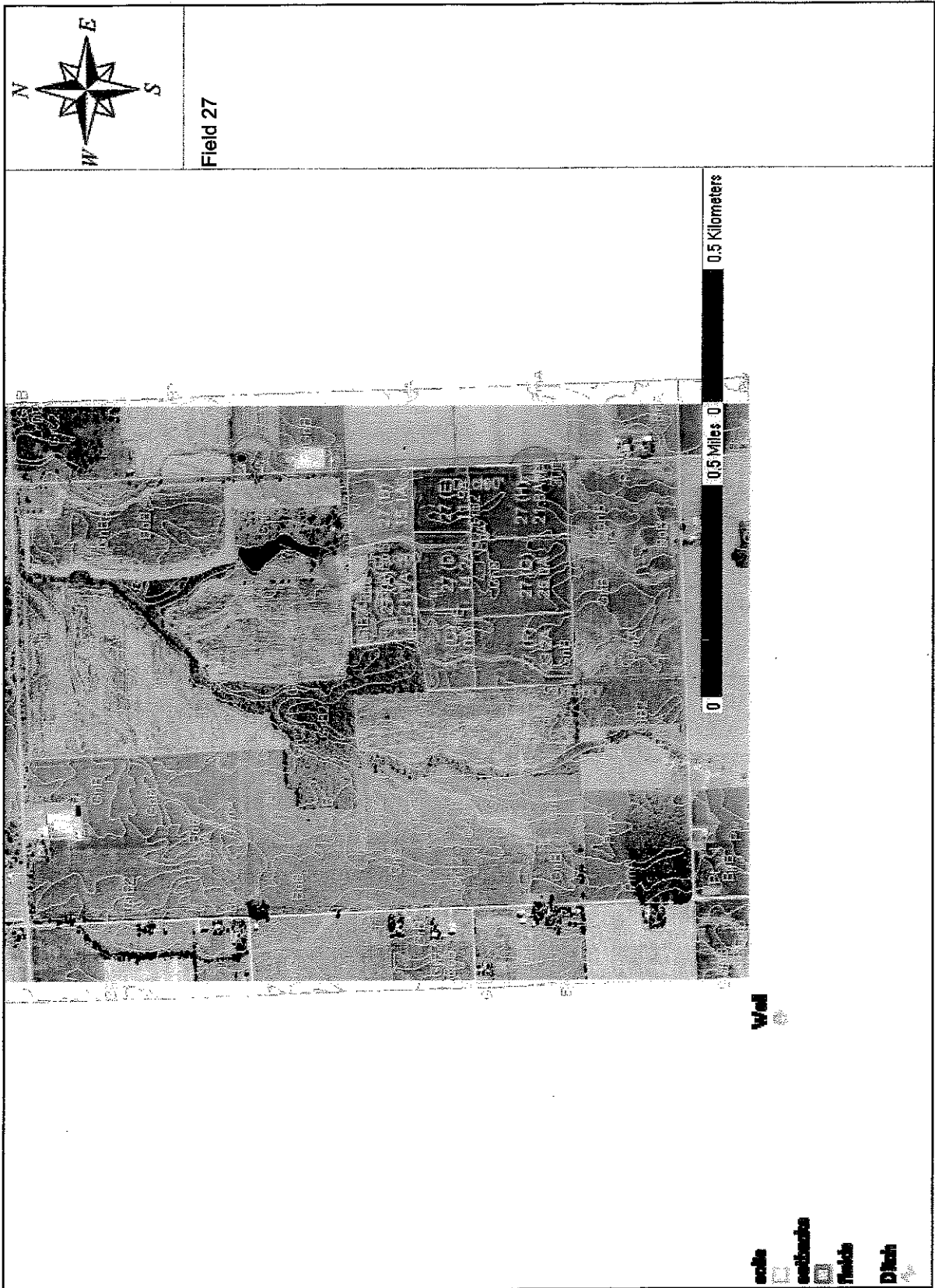


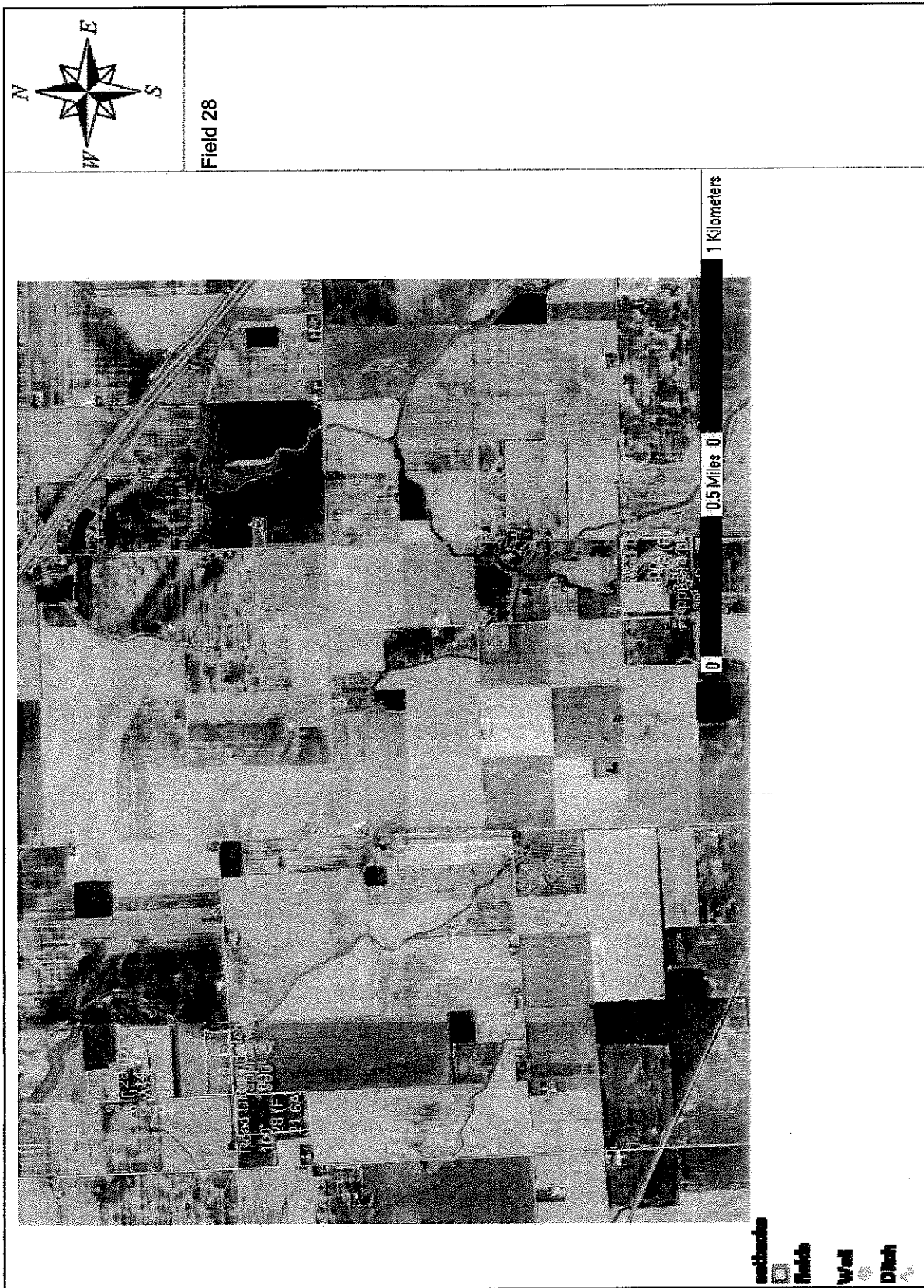


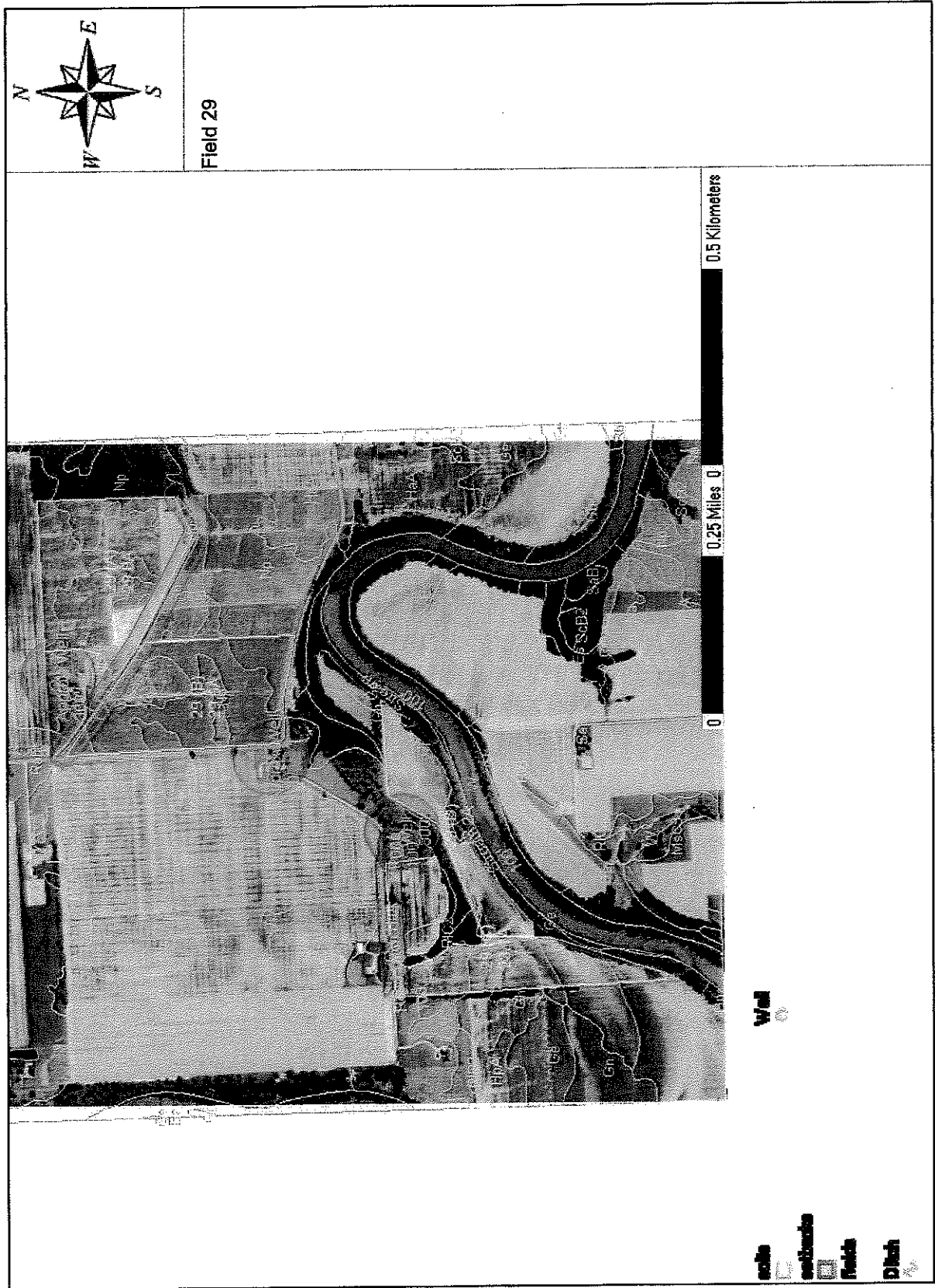


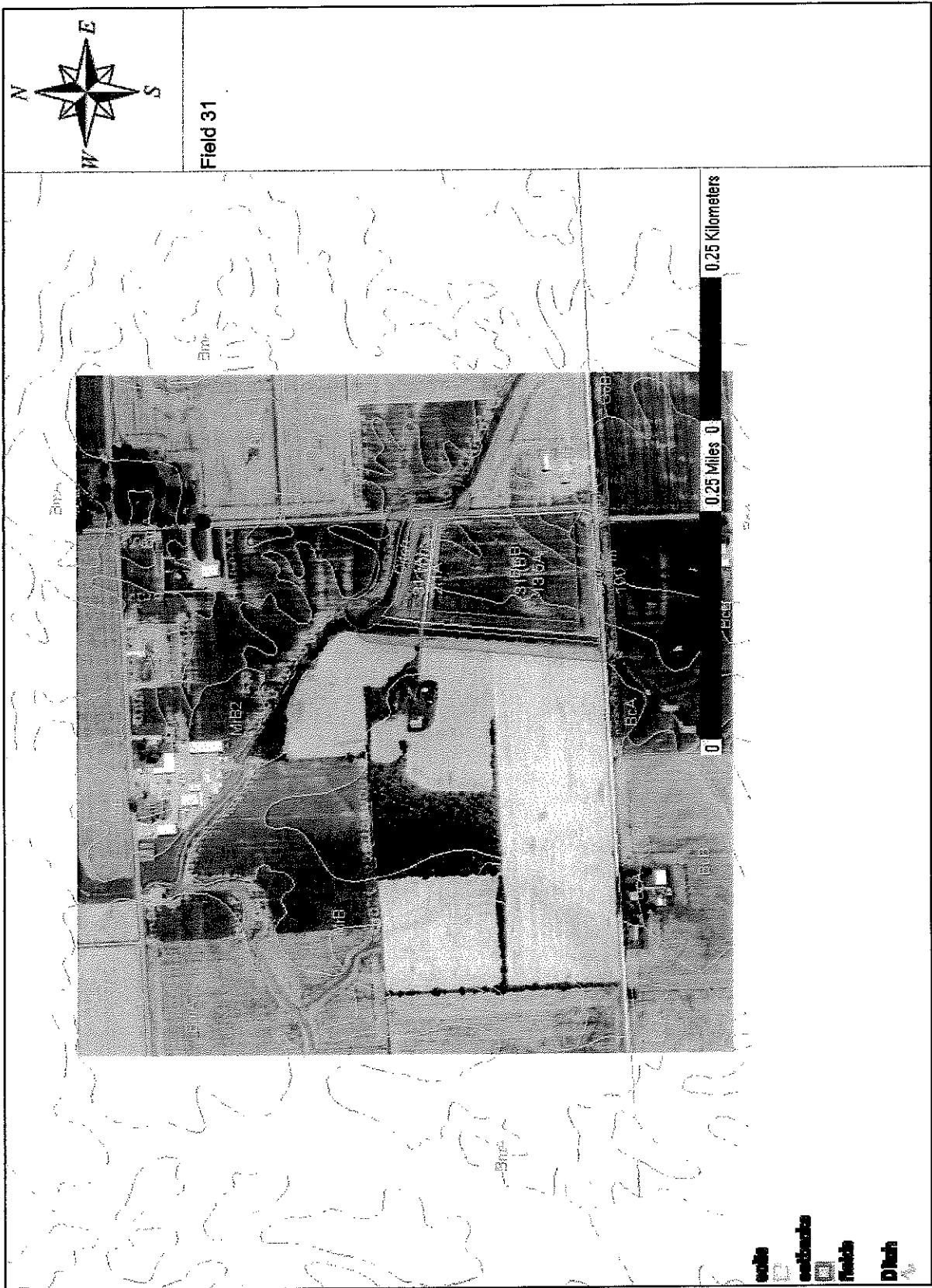












[illegible]


Soil Map Summary

HARTING FARM - HARTING - PLEE

**Client Information:**

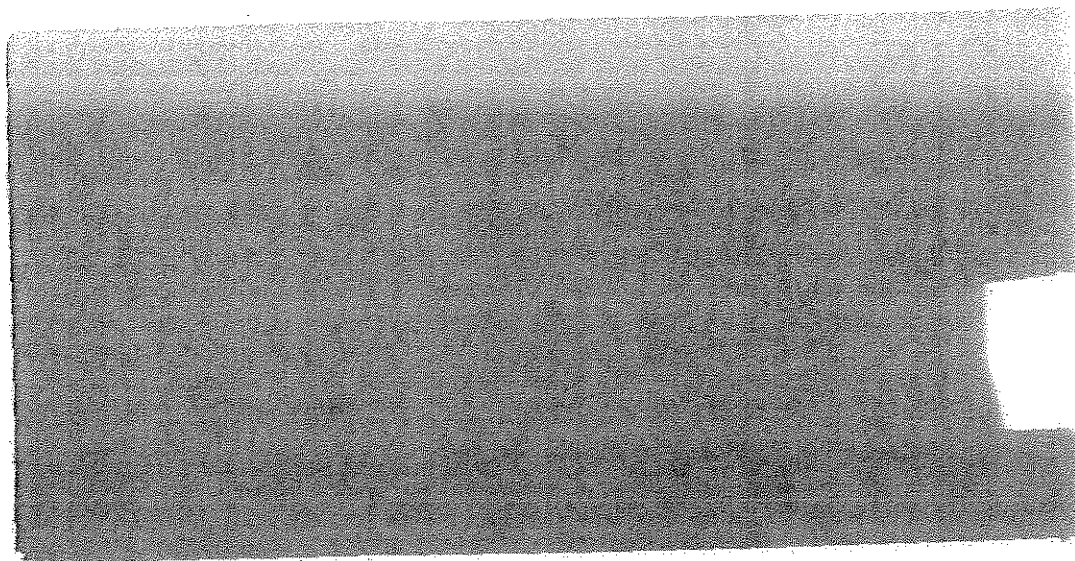
Client: HARTING FARM
Farm: HARTING
Field: PLEE

Legend Information:

Color	Value
	HtA

Field Information:

Field information and legend apply to active map layer only.



500 ft



Home Welch

Soil Type	Organic Matter		Phosphorus			Potassium		Magnesium		Calcium	Sodium	pH	Cation Exchange Capacity		% Base Saturation (Computed)				Nitrate		Sulfur		Zinc		Manganese		Iron		Copper		Boron	
	%	rate	P ₁	P ₂	B ₁	K	Mg	Mg	Ca	Na	Na	Soil	meq/100g	CEC	K	Mg	Ca	H	Depth	Surface	ppm	rate	ppm	rate	ppm	rate	ppm	rate	ppm	rate	ppm	rate
Welch	3.6	H	10.0	L	46.0	H	125.0	L	296.0	VH	2586.0	M	5.7	6.5	1.6	12.4	65.0	21.0			27.0	VH	1.2	M	5.0	L					0.6	L
Home	3.6	H	8.0	VL	37.0	M	123.0	L	343.0	VH	2946.0	H	6.4	6.7	1.6	14.5	74.8	9.1			18.0	M	1.0	L	4.0	VL					0.5	L
Average	3.6		8.0	41.5		123.5	318.5		2766.0		6.1	6.6	19.8	19.8	1.6	13.5	69.9	15.1			22.5		1.1		4.5						0.6	

2010

2A

Soil Map Summary

HARTING FARM - HARTING - Home Welch



**Client Information:**

Client: HARTING FARM

Farm: HARTING

Field: Home Welch

Legend Information:

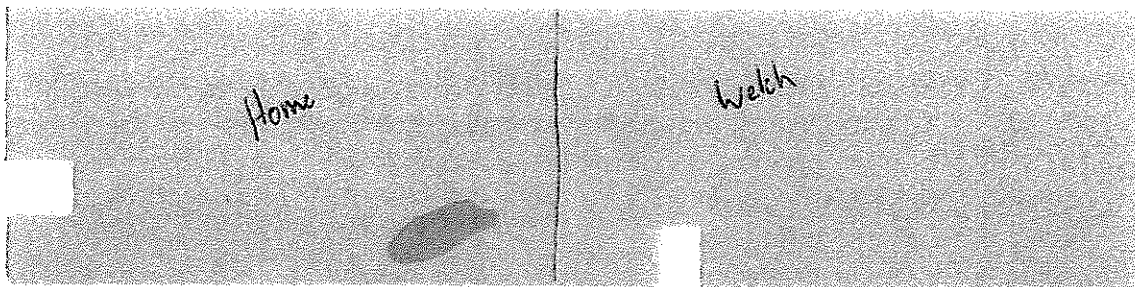
Color	Value
	HcA
	HtA

Field Information:

Field information and legend apply to active map layer only.

2A

3A



1000 ft



Background Map Layer Report

HARTING FARM - MILLER - IMLER







Client Information:

Client: HARTING FARM

Farm: MILLER

Field: IMLER

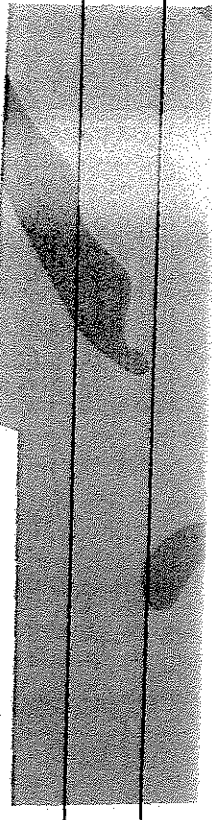
Legend Information:

Color	Value
	Boa
	BoB
	Pm
	To

Field Information:

Field information and legend apply to active map layer only.

A B C



1000'



Report Number	Lab Number	Date Received	Date Reported	Grower ID	Sample Id	OM	Phosphorus		K	Mg	Ca	Na	pH	Bindx	CEC meq/100
							P ₁	P ₂							

5A	11-293-0	23037604	20-Oct-11	25-Oct-11	WEST	7KS	2L	7	13	89	382	1883		5.9	6.7	15.4
7A	11-293-0	23037582	20-Oct-11	25-Oct-11	G YOUNG	1TO	2.8M	30	79	178	516	3193		5.7	6.5	26.2
7B	11-293-0	23037583	20-Oct-11	25-Oct-11	G YOUNG	2BOA	2.2L	17	22	146	376	1530		5.5	6.6	15.1
7C	11-293-0	23037584	20-Oct-11	25-Oct-11	G YOUNG	3HAB	2.6M	45	61	164	200	1053		5	6.1	12.5
8A	11-293-0	23037585	20-Oct-11	25-Oct-11	G YOUNG	4PM	3.4M	34	81	205	389	2521		5.8	6.6	20.2
9A	11-293-0	23037586	20-Oct-11	25-Oct-11	G YOUNG	5PO	2.8M	36	106	187	408	2522		5.9	6.6	19.9
10A	11-293-0	23037598	20-Oct-11	25-Oct-11	WEST	1TO	2.9M	21	56	175	431	3128		6.6	6.8	21
10B	11-293-0	23037599	20-Oct-11	25-Oct-11	WEST	2BNABO	2.2L	8	14	97	381	2004		6.2	6.7	15.2
11A	11-293-0	23037600	20-Oct-11	25-Oct-11	WEST	3DMBH	2L	9	12	57	179	1445		6.4	6.9	9.8
11B	11-293-0	23037601	20-Oct-11	25-Oct-11	WEST	4HNA	2.3L	7	18	101	320	2154		6	6.7	16.1
11C	11-293-0	23037602	20-Oct-11	25-Oct-11	WEST	5BOB	2.2L	8	11	105	335	1853		5.8	6.6	15.2
11D	11-293-0	23037603	20-Oct-11	25-Oct-11	WEST	6PM	2.6M	10	30	126	415	2680		6.4	6.7	18.9
12A	11-293-0	23037576	20-Oct-11	25-Oct-11	ETZLER	1MM	1.8L	15	56	142	440	3096		5.9	6.6	23.5
12B	11-293-0	23037577	20-Oct-11	25-Oct-11	ETZLER	2DMA	1.2VL	10	15	53	148	1115		5.3	6.6	10
13A	11-293-0	23037578	20-Oct-11	25-Oct-11	ETZLER	3PM	2L	31	70	130	354	2367		5.7	6.6	19.1
14A	11-293-0	23037579	20-Oct-11	25-Oct-11	ETZLER	4MN	2.7M	22	74	166	553	3867		6.2	6.6	27.7
14B	11-293-0	23037580	20-Oct-11	25-Oct-11	ETZLER	5BOA	2L	44	112	124	338	3583		6.9		21
20A	11-293-0	23037581	20-Oct-11	25-Oct-11	ETZLER	6HCA	2.1L	25	68	144	339	2280		5.8	6.6	18

Soil Type	Organic Matter		Phosphorus				Potassium		Magnesium		Calcium		Sodium		Cation Exchange Capacity C.E.C.	% Base Saturation (Computed)					Nitro				Manganese ppm	Iron ppm	Copper ppm	Barium ppm																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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Background Map Layer Report

HARTING FARM - HARTING - Hall









Client Information:

Client: HARTING FARM
Farm: HARTING
Field: Hall

Field Information:

Legend Information:

Color	Value
	BoA
	DmB
	Hna
	HnB
	Pm
	To

Field information and legend apply to active map layer only.

A

B

C

1000 R



Tuner

Soil Type	Organic Matter	Phosphorus						Potassium		Magnesium		Calcium		Sodium		pH	Cation Exchange Capacity C.E.C.	% Base Saturation (Computed)				Nitrate			Sulfur		Zinc		Manganese		Iron		Copper		Boron																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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Background Map Layer Report

HARTING FARM - HARTING - TURNER



Client Information:






Client: HARTING FARM

Farm: HARTING

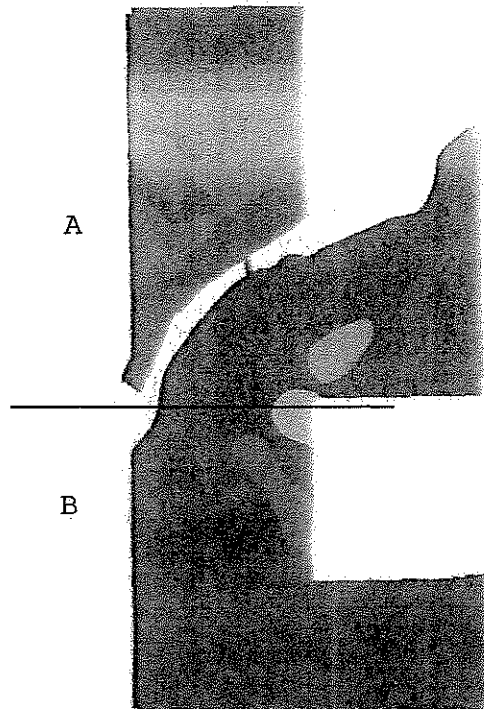
Field: TURNER

Field Information:

Legend Information:

Color	Value
	Boa
	BoB
	HnB
	Mob
	Pm

Field information and legend apply to active map layer only.



1520 E



Field 16

SOIL ANALYSIS REPORT				NEUTRAL AMMONIUM ACETATE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
LAB NUMBER	SAMPLE IDENTIFI CATION	ORGANIC MATTER	PHOSPHORUS					POTASSIUM				CALCIUM	SODIUM	pH	CATION N EXCH ANGE CAPA CITY																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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ppm	RA TE ppm	RA TE ppm

Background Map Layer Report

HARTING FARM - HARTING - GARDNER-FREIDLY



Client Information:





Client: HARTING FARM

Farm: HARTING

Field: GARDNER-FREIDLY

Field Information:

Legend Information:

Color	Value
	Boa
	BoB
	Pm
	To

Field information and legend apply to active map layer only.

18A

18B

17B

17A

1500 ft



Lloyd Etzler

Soil Type	Organic Matter	Phosphorus						Potassium		Magnesium		Calcium		Sodium		Cation Exchange Capacity C.E.C. meq/100g	% Base Saturation (Computed)						Nitrate				Sulfur S		Zinc Zn		Manganese as Mn		Iron Fe		Copper Cu		Boron B																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
		P ₁		P ₂		B ₁		K		Mg		Ca		Na			% Base Saturation (Computed)						Surface		Total		S		Zn		Mn		Fe		Cu		B																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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MHB	2.1	L	6.0	VL	9.0	L			89.0	L	271.0	VH	1909.0	H			6.2	8.8	13.6	1.7	16.6	70.2	11.5																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				

Background Map Layer Report

HARTING FARM - LLOYD ETZLER - Lloyd Etzler



Client Information:







Client: HARTING FARM

Farm: LLOYD ETZLER

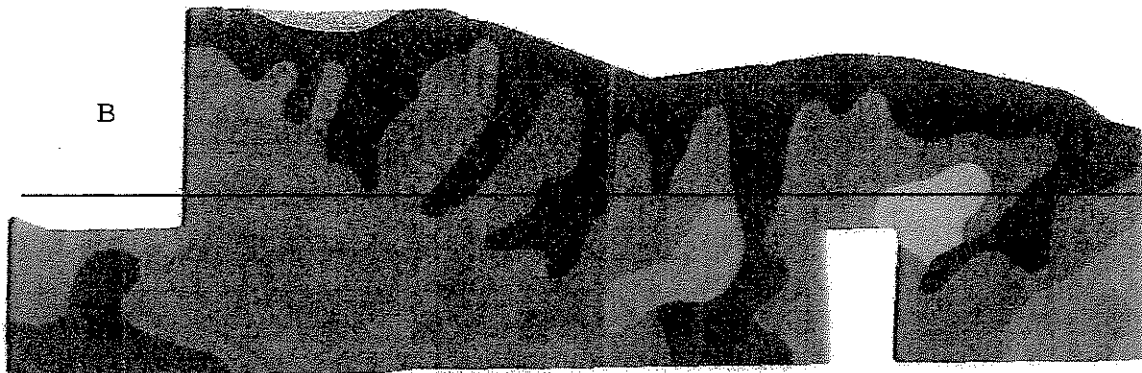
Field: Lloyd Etzler

Field Information:

Legend Information:

Color	Value
	BoA
	Bob
	HnB
	Mn
	MrB
	Pm

Field information and legend apply to active map layer only.

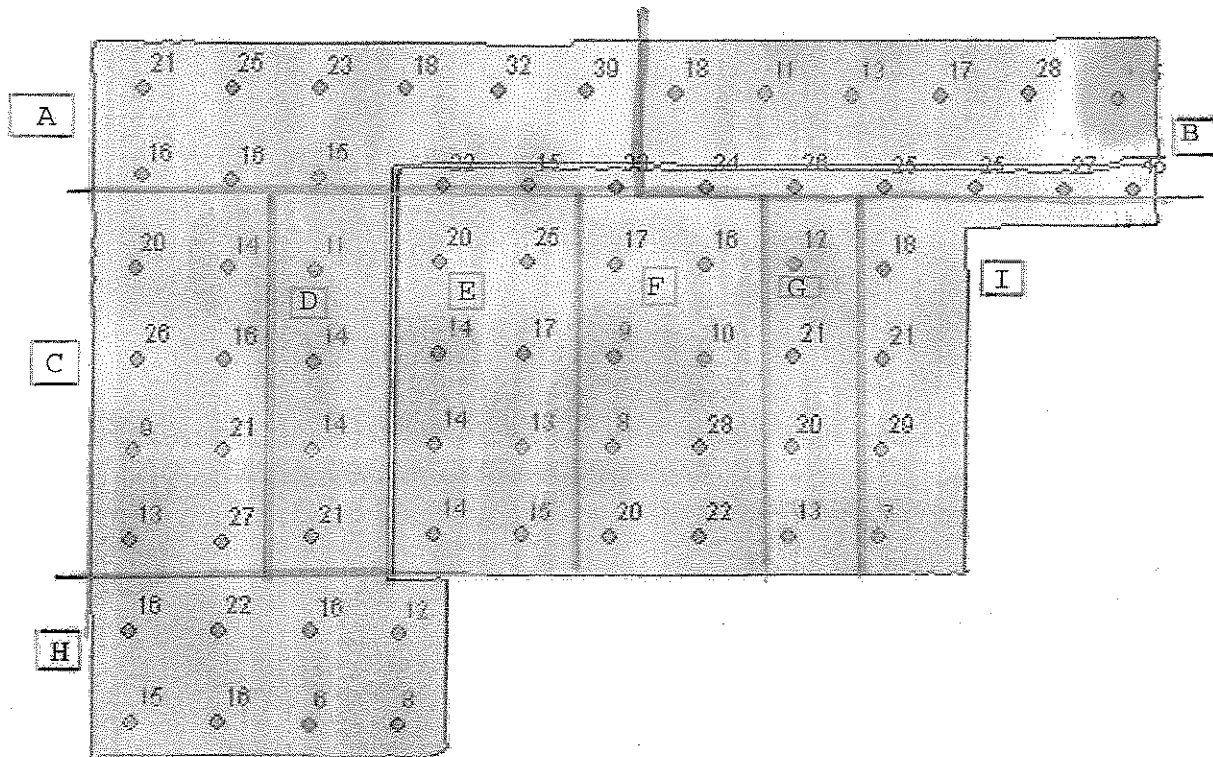


500 ft



Payne Farm - Payne

Soil Test Phosphorus (Unspecified)



84.7413
41.0848



Customer: **Bluestream Dairy**
 Boundary Area: 173.25 (ac)
 Min: 6.00 (ppm)
 Avg: 20.33 (ppm)
 Max: 125.00 (ppm)
 Std. Dev: 13.67 (ppm)
 Sample Depth: 0 (in) - 6 (in)
 Start Date: 11/16/2011 3:42:48 PM
 End Date: 11/16/2011 3:42:48 PM

ppm	ac	
6.00 - 15.52	63.99	◆ P Unspecified
15.52 - 22.06	68.35	□ Field Boundary
22.06 - 29.20	29.20	
29.20 - 39.32	9.66	
39.32 - 57.76	1.73	
57.76 - 80.37	0.46	
80.37 - 100.60	0.41	
100.60 - 116.07	0.63	
116.07 - 125.00	1.56	



Crop Production Services

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MAR 19 2012

Background Map Layer Report

HARTING FARM - ACKERMAN - HOME



Client Information

Client: HARTING FARM

Farm: ACKERMAN

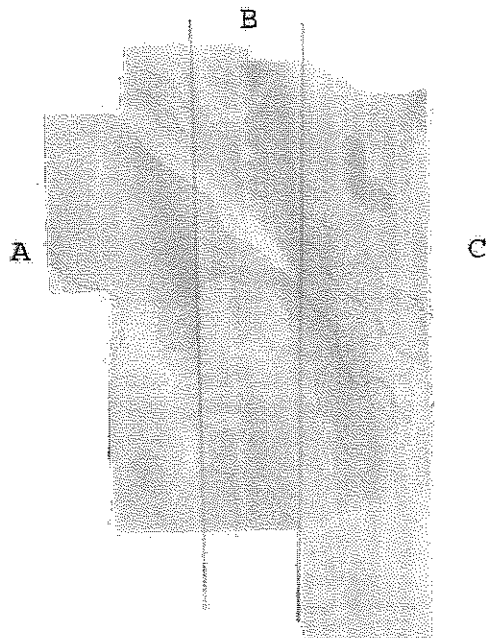
Field: HOME

Legend Information

Color	Value
	Bmb
	HcA
	HnA
	HtA
	NpA
	Nta

Field Information

Field information and legend apply to active map layer only.




[illegible]

Bauer																								
Lab	Soil Type	Organic Matter		pH		P		K		Ca		Mg		Na		S		Zn		Cu		Fe		B
		%	mls	ppm	mls	ppm	mls	ppm	mls	ppm	mls	ppm	mls	ppm	mls	ppm	mls	ppm	mls	ppm	mls	ppm	mls	
23A	MB	2.4	L	7.0	VL	9.0	L	92.0	L	408.0	VH	28.6	M	16.0	M	22.0	H	1.1	M	8.0	L	0.4	VL	0.4
23B	MB	2.2	L	11.0	L	18.0	L	70.0	L	281.0	VH	19.8	M	14.3	M	18.0	H	0.8	L	5.0	L	0.4	VL	0.4
23C	MB	2.0	L	5.0	VL	9.0	L	58.0	L	364.0	VH	28.6	M	14.3	M	22.0	H	0.3	VL	3.0	VL	0.4	VL	0.4
23D	MB	2.8	M	9.0	L	28.0	M	92.0	L	436.0	VH	23.8	M	15.5	M	16.0	M	0.7	L	2.0	VL	0.5	L	0.4
Average		2.4		7.5		15.5		78.3		372.3		23.9		15.5		21.6		0.7		4.6				0.4

		Fabian																			
Sample	Date	Nutrients				pH				Cation Exchange Capacity				% Base Saturation				Nitrate			
		N	P	K	Ca	Soil pH	Water pH	EC	Hardness	Meq/100g	CEC	Base Sat.	Acid Sat.	Ca	Mg	K	% Base Sat.	Soil Nitrate	Water Nitrate	Ammonia Nitrate	Total Nitrate
BoA	2010	2.0	7.0	10.0	10.0	5.9	6.7	13.1	19	22.1	59.4	16.6		15.0	0.9	1.0	9.0	15.0	0.9	1.0	9.0
Pm	2010	2.3	17.0	34.0	34.0	6.3	6.8	12.4	2.5	23.9	63.4	10.2		21.0	1.3	1.0	9.0	21.0	1.3	1.0	9.0
To	2010	3.1	20.0	54.0	54.0	6.4	6.7	19.1	2.1	22.0	66.8	9.1		19.0	1.8	1.0	10.0	19.0	1.8	1.0	10.0
BoB	2010	2.1	21.0	36.0	36.0	5.7	6.7	11.0	3.4	19.1	56.6	20.9		18.0	2.3	1.0	12.0	18.0	2.3	1.0	12.0
HnB	2010	1.8	10.0	41.0	41.0	7.6		12.7	1.5	10.9	67.6			15.0	1.3	1.0	8.0	15.0	1.3	1.0	8.0
Average	2010	2.3	15.0	35.0	35.0	6.4	6.7	23	19.8	66.8	14.2			17.6	1.5	1.0	7.4	17.6	1.5	1.0	7.4

Background Map Layer Report

HARTING FARM - COLIN - Bauer



Client Information:

Client: HARTING FARM

Farm: COLIN

Field: Bauer

Legend Information:

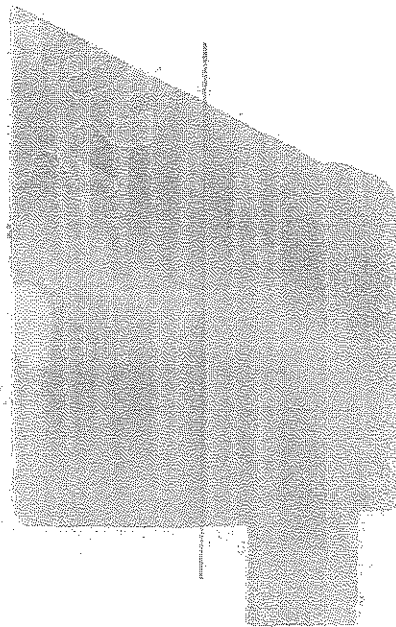
Color	Value
	BoA
	DmB
	EdB
	MtB

Field Information:

Field information and legend apply to active map layer only.

A

B



1000'



RECEIVED
MAR 19 2012



A & L GREAT LAKES LABORATORIES, INC.

3505 Conestoga Drive • Fort Wayne, Indiana 46808-4414 • Phone 260-483-4759 • Fax 260-483-5274

To: TRUPONTE COOPERATIVE INC

8137 FRANKF RD

FORT WAYNE, IN 46816-9519

Grower Code: BPKN5

Grower Name: BOB PERKINS

Farm Name: 1

Field Name: 1

SOIL TEST REPORT

Date Reported: 07/13/2011

Sample ID: 1

Lab Number: 9247

Page 1

[illegible]

0711 0125193

Scilab 4.0.0

Graphic Report



A & L GREAT LAKES LABORATORIES, INC.

33505 Conestoga Drive • Fort Wayne, Indiana 46808-4414 • Phone 260-483-4759 • Fax 260-483-5274

To: TRUPOINTE COOPERATIVE INC
8137 FRANKIE RD
FORT WAYNE, IN 46816-9519

Grower Code: BPKNS
Grower Name: BOB PERKINS
Farm Name: HOME
Field Name: DE

SOIL TEST REPORT

Page: 2

Lab Number: 22766

Sample ID: 2

Date Reported: 07/21/2011

Data Report Form																
Phosphorus				Potassium	Magnesium	Calcium	Sodium	pH		CEC meq/100g	Percent Base Saturation					
Organic Matter %	P1 lb/A	P2 lb/A	Bigasb.P lb/A	K lb/A	Mg lb/A	Ca lb/A	Na lb/A	Soil	Buffer		% K	% Mg	% Ca	% H	% Na	
3.3	50			336	600	3300		5.9	6.7	14.8	2.9	16.9	55.8	24.4		
Sulfur S lb/A	Zinc Zn lb/A	Manganese Mn lb/A	Iron Fe lb/A	Copper Cu lb/A	Boron B lb/A	Soluble Salts mmtol/lbm	Nitrate NO3-N ppm	Ammonium NH4-N ppm	Chloride Cl ppm							

GRAPHIC SUMMARY

GRAPHIC SUMMARY															
Very High															Very High
High															High
Medium															Medium
Low															Low
Very Low															Very Low
	P1	P2	Bicarb-P	K	Mg	Ca	Na	S	Zn	Mn	Fe	Cu	B	Cl	Sol Salts

SOIL FERTILITY RECOMMENDATIONS

SOIL FERTILITY RECOMMENDATIONS													
Intended Crop	Yield Goal	Previous Crop	Lime tons/A	N Nitrogen lb/A	P2O5 Phosphorus lb/A	K2O Potassium lb/A	Mg Magnesium lb/A	S Sulfur lb/A	Zn Zinc lb/A	Mn Manganese lb/A	Fe Iron lb/A	Cu Copper lb/A	B Boron lb/A
Corn	150	Wheat	2.0	180	70	40	0						

07/22/2011

SolTrak 4.0.2

Graphic 12

Report Number: F11200-0043
Account Number: 24021

Field 25C



A & L GREAT LAKES LABORATORIES, INC.

3505 Conestoga Drive • Fort Wayne, Indiana 46808-4414 • Phone 260-483-4759 • Fax 260-483-5274

To: TRUPOINT COOPERATIVE INC.
8137 FRANK RD
FORT WAYNE, IN 46816-9519

Grower Code: BPKNS
Grower Name: BOB PERKINS
Farm Name: HOME
Field Name: D

SOIL TEST REPORT

Page: 1

Lab Number: 22764

Sample ID: 2

Date Reported: 07/21/2011

Organic Matter %	Phosphorus			Potassium K lb/A	Magnesium Mg lb/A	Calcium Ca lb/A	Sodium Na lb/A	pH		CEC meq/100g	Percent Base Saturation			
	P1 lb/A	P2 lb/A	Bicarb-P lb/A					Soil	Buffer		% K	% Ca	% Mg	% H
4.3	62			388	730	4700		6.4	6.8	17.7	2.8	66.4	17.2	13.6
Sulfur S lb/A	Zinc Zn lb/A	Manganese Mn lb/A	Iron Fe lb/A	Copper Cu lb/A	Boron B lb/A	Soluble Salts mmho/cm	Nitrate NO3-N ppm	Ammonium NH4-N ppm	Chloride Cl ppm					

GRAPHIC SUMMARY

Very High															Very High
High															High
Medium															Medium
Low															Low
Very Low															Very Low
	P1	P2	Bicarb-P	K	Mg	Ca	Na	S	Zn	Mn	Fe	Cu	B	Cl	Soil Salts

SOIL FERTILITY RECOMMENDATIONS

Intended Crop	Yield Goal	Previous Crop	Lime tons/A	N lb/A	P205 Phosphorus lb/A	K2O Potassium lb/A	Mg Magnesium lb/A	S Sulfur lb/A	Zn Zinc lb/A	Mn Manganese lb/A	Fe Iron lb/A	Cu Copper lb/A	B Boron lb/A
Corn	150	Wheat	0.0	170	55	40	0						

07/22/2011

SoilTrak 4.0.2

Graphic Report



A & L GREAT LAKES LABORATORIES, INC.

3505 Conestoga Drive • Fort Wayne, Indiana 46808-4414 • Phone 260-483-4759 • Fax 260-483-5274

To: TRUPOINTE COOPERATIVE INC
8137 FRANKLIN RD
FORT WAYNE, IN 46816-9519

Grower Code: BPKNS
Grower Name: BOB PERKINS
Farm Name: HOME
Field Name: 4SE

SOIL TEST REPORT

Date Reported: 07/21/2011

Sample ID: 4

Lab Number: 22763

Page: 1

Organic Matter %	Phosphorus		Potassium K lb/A	Magnesium Mg lb/A	Calcium Ca lb/A	Sodium Na lb/A	pH		CEC meq/100g	Percent Base Saturation				
	P1 lb/A	P2 lb/A		Bicarb-P lb/A			Soil	Buffer		% K	% Mg	% Ca	% H	% Na
2.9	38		256		570	2800	5.9	6.7	13.3	2.5	17.9	52.6	27.1	
Sulfur S lb/A	Manganese		Iron Fe lb/A	Copper Cu lb/A	Boron B lb/A	Soluble Salts mmho/cm	Nitrate NO3-N ppm		Chloride Cl ppm					
	Zinc Zn lb/A	Mn lb/A												

GRAPHIC SUMMARY														
Very High														Very High
High														High
Medium														Medium
Low														Low
Very Low														Very Low
P1	P2	Bicarb-P	K	Mg	Ca	Na	S	Zn	Mn	Fe	Cu	B	Cl	Sol Salts

SOIL FERTILITY RECOMMENDATIONS									
Intended Crop	Yield Goal	Previous Crop	Lime tons/A	N Nitrogen lb/A	P2O5 Phosphorus lb/A	K2O Potassium lb/A	Mg Magnesium lb/A	S Sulfur lb/A	B Boron lb/A
Corn	150	Wheat	2.0	185	80	90	0		

REF ID: A11079

ANALYSIS DATE: APR 6, 2011

ACCOUNT NO: 11079

HARTING FARMS
1907 LARE RD
CONVOY OH
45832

Midwest

Laboratories

13041 "D" Street • Omaha, Nebraska 68144-3603
(402) 334-7770 • FAX (402) 334-9121 • www.midwestlabs.com

PAGE

1/2

REPORT DATE

JUN 14, 2011

COPY TO

2nd COPY TO

GROWER

BLUE STREAM

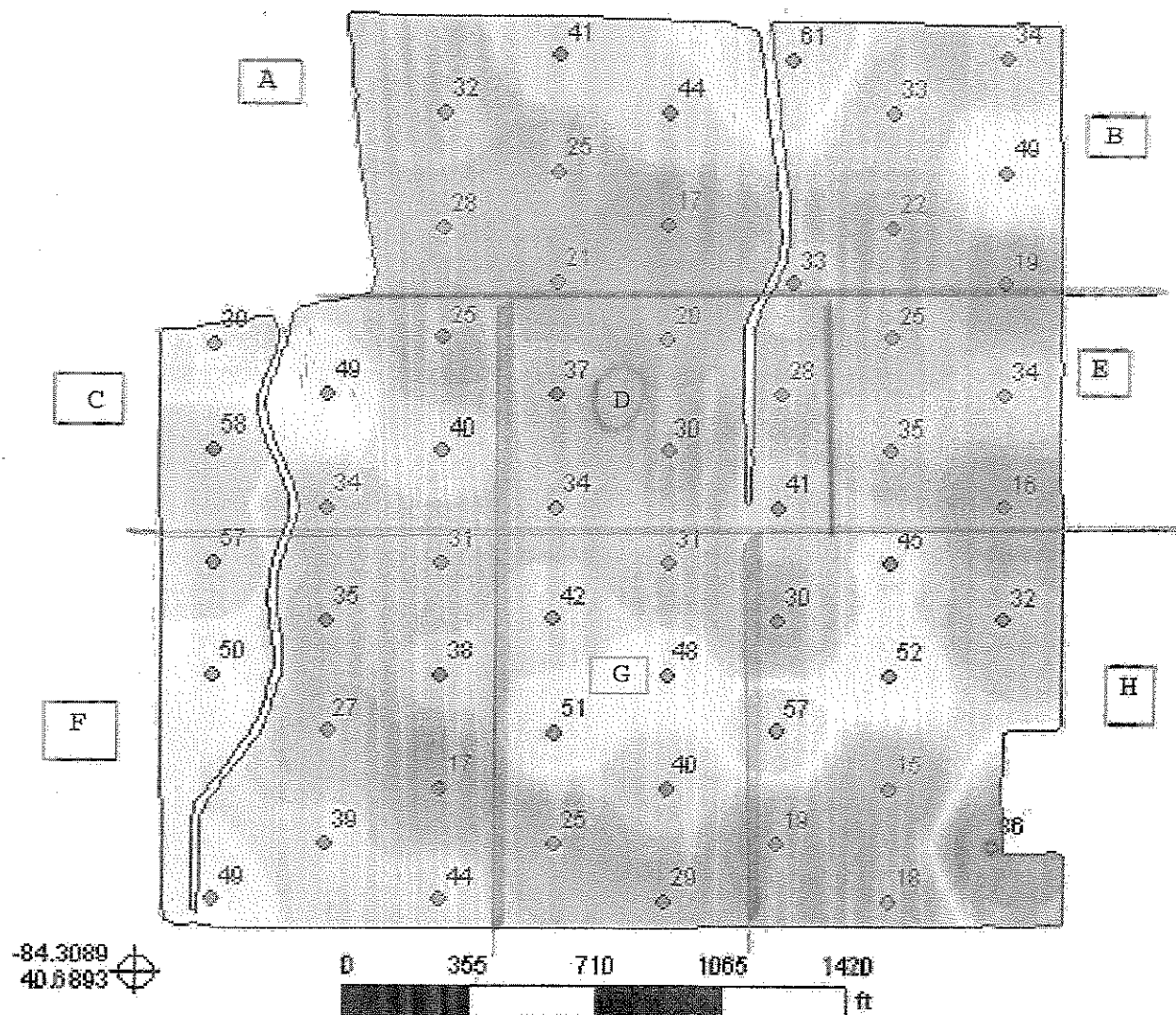
SOIL ANALYSIS REPORT VIEW YOUR SUBMITTAL FORM

LAB NUMBER	SAMPLE IDENTIFICATION	ORGANIC MATTER	PHOSPHORUS						NEUTRAL AMMONIUM ACETATE (EXCHANGEABLE)				pH	CATION EXCHANGE CAPACITY C.E.C. meq/100g	PERCENT BASE SATURATION (COMPUTED)				
			P ₁		P ₂		BICARBONATE P		K	Mg	Ca	Na			% K	% Mg	% Ca	% H	% Na
			MODIFIED LOI		STRONG BRAY 1:7		OLSEN												
			PERCENT RATE	ppm	PERCENT RATE	ppm	PERCENT RATE	ppm											
22513534	1FULKNPB	2.3	20	28			101	221	1847			6.4	11.3	2.3	16.3	72.9	8.6		
22513535	2FULKNPA	2.7	8	22			126	331	2066			6.1	15.8	2.1	17.7	66.2	14.0		
22513536	3FULKNPA	3.7	21	73			162	300	2556			6.1	16.5	2.2	14.4	69.1	14.3		
22513537	4FULKNPA	1.7	13	19			79	145	836			5.5	7.6	2.7	15.9	55.0	28.4		
22513538	5FULKNPA	1.9	15	21			71	92	1561			5.3	5.7	3.2	13.5	51.8	31.5		
22513539	6FULKNPA	3.4	23	62			168	325	2581			6.6	17.0	2.4	15.9	75.9	5.8		
22513540	7FULKNDB	1.8	38	46			99	132	721			5.4	7.0	3.6	15.7	51.5	29.2		
22513541	8BLUE1HBB	2.5	48	57			198	240	2003			8.0	12.5	4.0	16.0	80.0			
22513542	9BLUE1DMB	2.8	75	101			280	285	2017			8.0	13.0	5.1	17.0	77.9			
22513543	10BLUE1TO	3.4	52	84			247	415	3190			8.0	20.0	3.2	17.3	79.5			

Sample ID	NITRATE-N (ppm)										SULFUR S ICAP ppm	ZINC Zn ppm	MANGANESE Mn ppm	IRON Fe ppm	COPPER Cu ppm	BORON B ppm	EXCESS LIME RATE	SOLUBLE SALTS ^{1:1} mmhos/ cm
	Surface		Sub 1		Sub 2		Total lbs/A											
	ppm	depth IN	ppm	depth IN	ppm	depth IN												
1FULKNPB		0-6						12	0.9	8					0.5			
2FULKNPA		0-6						9	0.9	6					0.5			
3FULKHTA		0-6						12	1.4	6					0.8			
4FULKNPA		0-6						12	1.0	15					0.8			
5FULKBMA		0-6						11	1.7	28					0.5			
6FULKNCA		0-6						10	1.2	7					0.7			
7FULKHD8		0-6						13	1.0	22					0.5			
8BLUE1H88		0-6						14	3.2	7					0.7			
9BLUE1DM8		0-6						14	8.5	6					1.0			
10BLUE1TO		0-6						12	5.4	3					1.0			

FARM - Defiance Trail 145 AC

Soil Test Phosphorus (Unspecified)



Customer: Moeller, Charles
 Boundary Area: 146.08 (ac)
 Min: 15.00 (ppm)
 Avg: 35.94 (ppm)
 Max: 86.00 (ppm)
 Std. Dev: 11.57 (ppm)
 Sample Depth: 0 (in) - 6 (in)
 Start Date: 8/7/2009 10:12:20 AM
 End Date: 8/7/2009 10:12:20 AM

ppm	ac
15.00 - 23.52	19.86
23.52 - 30.26	27.66
30.26 - 37.01	40.69
37.01 - 44.11	28.53
44.11 - 52.27	20.69
52.27 - 61.86	7.94
61.86 - 71.80	0.32
71.80 - 80.32	0.67
80.32 - 86.00	1.41

● P Unspecified
 □ Field Boundary



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Soil Analysis Report

Larry Hak

47 of 189

TRUPOINTE COOP/ALLIED ENVIRONMENT

PO BOX 187

00507419 SCOTT FRIES

Farm Home



Received: 04-Aug-11

Reported: 05-Aug-11

Field 28A

Lab Number	9834	9839
Field	1	1
Sample No.	1	2
C.E.C.	16.8	14.1
Org Matter	2.8	2.1
Soil pH	6.1	5.6
Lime Index	67	66
P lbs/ac	128	75
K lbs/ac	394	317
Ca lbs/ac	3916	2787
Mg lbs/ac	697	461
SO4S lbs/ac		
B lbs/ac		
Cu lbs/ac		
Mn lbs/ac		
Zn lbs/ac		
Ca Sat'n.	58 %	49 %
Mg Sat'n.	17 %	14 %
K Sat'n.	3 %	3 %
Base Sat'n.	78 %	66 %
Ca/Mg	3.4	3.6
Mg/K	5.8	4.7
NO3N ppm		
Na lbs/ac		
Fe		
SS ms/cm		
Pct. Sand		
Pct. Silt		
Pct. Clay		
Texture		

81-110-PTI-002

81-110-PTO-002

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Soil Analysis Report

Larry Hak

48 of 189

TRUPOINTE COOP/ALLIED ENVIRONMENT

PO BOX 187

00507419 SCOTT FRIES

Farm Home

Received: 04-Aug-11

Reported: 05-Aug-11



Field 28B

Lab Number	Field	9846	9845	9822
Sample No.		2	2	2
		4	2	3
C.E.C.	12.6	16.8		13.9
Org Matter	2.7	3.3		3.8
Soil pH	7.0	5.7		6.6
Lime Index	70	65		69
P lbs/ac	35	65		54
K lbs/ac	205	205		222
Ca lbs/ac	4166	3421		4033
Mg lbs/ac	458	474		563
65045 lbs/ac				
B lbs/ac				
Cu lbs/ac				
Mn lbs/ac				
Zn lbs/ac				
Ca Sat'n.	83 %	51 %		73 %
Mg Sat'n.	15 %	12 %		17 %
K Sat'n.	2 %	2 %		2 %
Base Sat'n.	100 %	64 %		91 %
Ca/Mg	5.5	4.3		4.3
Mg/K	7.3	7.5		8.3
NO3N ppm				
Na lbs/ac				
Fe				
SS ms/cm				
Pct. Sand				
Pct. Silt				
Pct. Clay				
Texture				

81-110-PTI-002

81-110-PTI-002

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Soil Analysis Report

Larry Hak

49 of 189

TRUPOINTE COOP/ALLIED ENVIRONMENT

PO BOX 187

00507419 SCOTT FRIES

Farm Minerd



Received: 04-Aug-11

Reported: 05-Aug-11

Field 28C

Lab Number	9817	9818
Field	1	1
Sample No.	1	2
C.E.C.	14.4	16.4
Org Matter	2.3	2.4
Soil pH	6.2	5.8
Lime Index	68	66
P lbs/ac	114	118
K lbs/ac	467	486
Ca lbs/ac	3361	3232
Mg lbs/ac	723	702
Ca Sat'n.	58 %	49 %
Mg Sat'n.	21 %	18 %
K Sat'n.	4 %	4 %
Base Sat'n.	83 %	71 %
Ca/Mg	2.8	2.8
Mg/K	5.0	4.7
NO3N ppm		
Na lbs/ac		
Fe		
SS ms/cm		
Pct. Sand		
Pct. Silt		
Pct. Clay		
Texture		

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81-110-PTO-002

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Soil Analysis Report

Garry Hak

of 189

TRUPOINTE COOP/ALLIED ENVIRONMENT

PO BOX 187

00507419 SCOTT FRIES

Farm Rowe

Received: 04-Aug-11

Reported: 05-Aug-11



Field 28D

Lab Number	9847	9848
Field	1	1
Sample No.	1	2
C.E.C.	13.6	17.8
Org Matter	2.1	3.6
Soil pH	5.9	5.9
Lime Index	67	66
P lbs/ac	92	104
K lbs/ac	341	532
Ca lbs/ac	2973	3902
Mg lbs/ac	581	619
SO4S lbs/ac		
B lbs/ac		
Cu lbs/ac		
Mn lbs/ac		
Zn lbs/ac		
Ca Sat'n.	53 %	55 %
Mg Sat'n.	18 %	14 %
K Sat'n.	3 %	4 %
Base Sat'n.	74 %	73 %
Ca/Mg	3.0	3.8
Mg/K	5.6	3.8
NO3N ppm		
Na lbs/ac		
Fe		
SS mS/cm		
Pct. Sand		
Pct. Silt		
Pct. Clay		
Texture		

Soil Analysis Report

Larry Hak

of 189

TRUPOINTE COOP/ALLIED ENVIRONMENT

PO BOX 187

00507419 SCOTT FRIES

Farm Rowe

Received: 04-Aug-11

Reported: 05-Aug-11



Field 28E

Lab Number	9850	9849
Field	2	2
Sample No.	1	2
C.E.C.	18.5	15.4
Org Matter	3.1	3.1
Soil pH	5.5	5.6
Lime Index	64	65
P lbs/ac	61	50
K lbs/ac	331	295
Ca lbs/ac	3137	2733
Mg lbs/ac	744	537
904S lbs/ac		
B lbs/ac		
Cu lbs/ac		
Mn lbs/ac		
Zn lbs/ac		
Ca Sat'n.	42 %	44 %
Mg Sat'n.	17 %	14 %
K Sat'n.	2 %	3 %
Base Sat'n.	61 %	61 %
Ca/Mg	2.5	3.1
Mg/K	7.3	5.9
NO3N ppm		
Na lbs/ac		
Fe		
SS ms/cm		
Pct. Sand		
Pct. Silt		
Pct. Clay		
Texture		

Soil Analysis Report

Harry Hak

of 189

TRUPOINTE COOP/ALLIED ENVIRONMENT

PO BOX 187

00507419 SCOTT FRIES

Farm Rowe

Received: 04-Aug-11

Reported: 05-Aug-11



Field 28F

Lab Number	9835	9838	9840
Field	3	3	3
Sample No.	1	2	3
C.E.C.	14.1	22.5	17.0
Org Matter	2.4	3.7	3.4
Soil pH	6.5	5.9	7.3
Lime Index	69	65	70
P lbs/ac	58	60	47
K lbs/ac	250	296	305
Ca lbs/ac	3847	5150	5705
Mg lbs/ac	723	795	578
SO4S lbs/ac			
B lbs/ac			
Cu lbs/ac			
Mn lbs/ac			
Zn lbs/ac			
Ca Sat'n.	68 %	57 %	84 %
Mg Sat'n.	21 %	15 %	14 %
K Sat'n.	2 %	2 %	2 %
Base Sat'n.	92 %	73 %	100 %
Ca/Mg	3.2	3.9	5.9
Mg/K	9.4	8.8	6.2
NO3N ppm			
Na lbs/ac			
Fe			
SS mS/cm			
Pct. Sand			
Pct. Silt			
Pct. Clay			
Texture			

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Soil Analysis Report

Spectrum Analytic

1087 Jamison Road NW
Washington Court House, OH 43160-8748

www.spectrumanalytic.com

CROP PRODUCTION SERVICES
11713 A SPENCERVILLE DELPHOS
DELPHOS, OH 45833-9221

Prepared For

MOELLER L & C

Sample Information

Sample INDY N OF DITCH

Lab Number B40638

Acres

Sampled 12-APR-10

Tested 15-APR-10

Analysis	Result	Optimal	Analysis	Result	Optimal
Soil pH	6.4	0.0-0.0	Sulfur	m3-ppm 32	0-0
Buffer pH	6.9		Boron	m3-ppm 0.9	0.0-0.0
Organic Matter	% 4.2		Zinc	m3-ppm 5.4	0.0-0.0
CEC	14.6				
K Saturation	% 3.0	2.0-4.0			
Mg Saturation	% 23.0	10-20			
Ca Saturation	% 65.8	50-70			
K/Mg Ratio	0.4				
Ca/Mg Ratio	5.6				
Phosphorus	m3-ppm 46	00-00			
Potassium	m3-ppm 204	00-00			
Magnesium	m3-ppm 458	00-00			
Calcium	m3-ppm 2569	000-000			

Very High

High

Good

Medium

Low

Recommendations		Nutrients expressed in broadcast lbs/A, except Fe (foliar) and Mn (row)										
Yr	Crop	CaCO3	N	P2O5	K2O	Mg	S	B	Cu	Fe	Mn	Zn
11	Corn 180 bu											

Lime expressed in 100% pure CaCO3. Adjust accordingly. D=Dolomitic. C=Calcitic.

Corn: Starter fertilizer is normally suggested regardless of soil test levels. Monitor and adjust nutrient program based on annual leaf analysis.

Spectrum Analytic

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CROP PRODUCTION SERVICES
11713 A SPENCERVILLE DELPHOS
DELPHOS, OH 45833-9221

Prepared For
MOELLER L & C

Sample Information			
Sample	INDY S OF DITCH	Sampled	12-APR-10
Lab Number	B40639	Tested	15-APR-10
Acres			

Analysis	Result	Optimal	Analysis	Result	Optimal
Soil pH	6.5	0.0-0.0	Sulfur	m3-ppm 27	0-0
Buffer pH	7.0		Boron	m3-ppm 0.7	0.0-0.0
Organic Matter	% 2.1		Zinc	m3-ppm 2.7	0.0-0.0
CEC	12.4				
K Saturation	% 2.7	2.0-4.0			
Mg Saturation	% 20.0	10-20			
Ca Saturation	% 55.4	50-70			
K/Mg Ratio	0.5				
Ca/Mg Ratio	5.4				
Phosphorus	m3-ppm 36	00-00			
Potassium	m3-ppm 154	00-00			
Magnesium	m3-ppm 339	00-00			
Calcium	m3-ppm 1834	000-000			

Very High

High

Good

Medium

Low

Recommendations		Nutrients expressed in broadcast lbs/A, except Fe (foliar) and Mn (row)											
Yr	Crop	CaCO3	N	P2O5	K2O	Mg	S	B	Cu	Fe	Mn	Zn	
10	Corn 180 bu												

Lime expressed in 100% pure CaCO3. Adjust accordingly. D=Dolomitic. C=Calcitic.

Corn: Starter fertilizer is normally suggested regardless of soil test levels. Monitor and adjust nutrient program based on annual leaf analysis.

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Washington Court House, OH 43160-8748

www.spectrumanalytic.com

CROP PRODUCTION SERVICES
11713 A SPENCERVILLE DELPHOS
DELPHOS, OH 45833-9221

Prepared For

MOELLER L & C

Sample Information

Sample	INDY TOP	Sampled	12-APR-10
Lab Number	B40642	Tested	15-APR-10
Acres			

Analysis	Result	Optimal	Analysis	Result	Optimal
Soil pH	6.1	0.0-0.0	Sulfur	m3-ppm 17	0-0
Buffer pH	6.7		Boron	m3-ppm 0.5	0.0-0.0
Organic Matter	% 1.8		Zinc	m3-ppm 2.4	0.0-0.0
CEC	12.8				
K Saturation	% 1.8	2.0-4.0			
Mg Saturation	% 15.5	10-20			
Ca Saturation	% 54.7	50-70			
K/Mg Ratio	0.4				
Ca/Mg Ratio	6.9				
Phosphorus	m3-ppm 22	00-00			
Potassium	m3-ppm 105	00-00			
Magnesium	m3-ppm 271	00-00			
Calcium	m3-ppm 1872	000-000			

Very High

High

Good

Medium

Low

Recommendations		Nutrients expressed in broadcast lbs/A, except Fe (follar) and Mn (row)											
Yr	Crop	CaCO3	N	P2O5	K2O	Mg	S	B	Cu	Fe	Mn	Zn	
10	Corn 180 bu												

Lime expressed in 100% pure CaCO3. Adjust accordingly. D=Dolomitic. C=Calcitic.

Corn: Starter fertilizer is normally suggested regardless of soil test levels. Monitor and adjust nutrient program based on annual leaf analysis.

Soil Analysis Report

Spectrum Analytic

1087 Jamison Road NW
Washington Court House, OH 43160-8748

www.spectrumanalytic.com

CROP PRODUCTION SERVICES
11713 A SPENCERVILLE DELPHOS
DELPHOS, OH 45833-9221

Prepared For
MOELLER L & C

Sample Information			
Sample	INDY BOTTOM	Sampled	12-APR-10
Lab Number	B40640	Tested	15-APR-10
Acres			

Analysis			Result	Optimal	Analysis			Result	Optimal
Soil pH			7.0	0.0-0.0	Sulfur	m3-ppm	13	0-0	
Buffer pH					Boron	m3-ppm	0.6	0.0-0.0	
Organic Matter	%	2.1			Zinc	m3-ppm	3.3	0.0-0.0	
CEC			12.5						
K Saturation	%	2.9	2.0-4.0						
Mg Saturation	%	18.4	10-20						
Ca Saturation	%	65.6	50-70						
K/Mg Ratio			0.5						
Ca/Mg Ratio			7.0						
Phosphorus	m3-ppm	31	00-00						
Potassium	m3-ppm	170	00-00						
Magnesium	m3-ppm	313	00-00						
Calcium	m3-ppm	2178	000-000						

Very High

High

Good

Medium

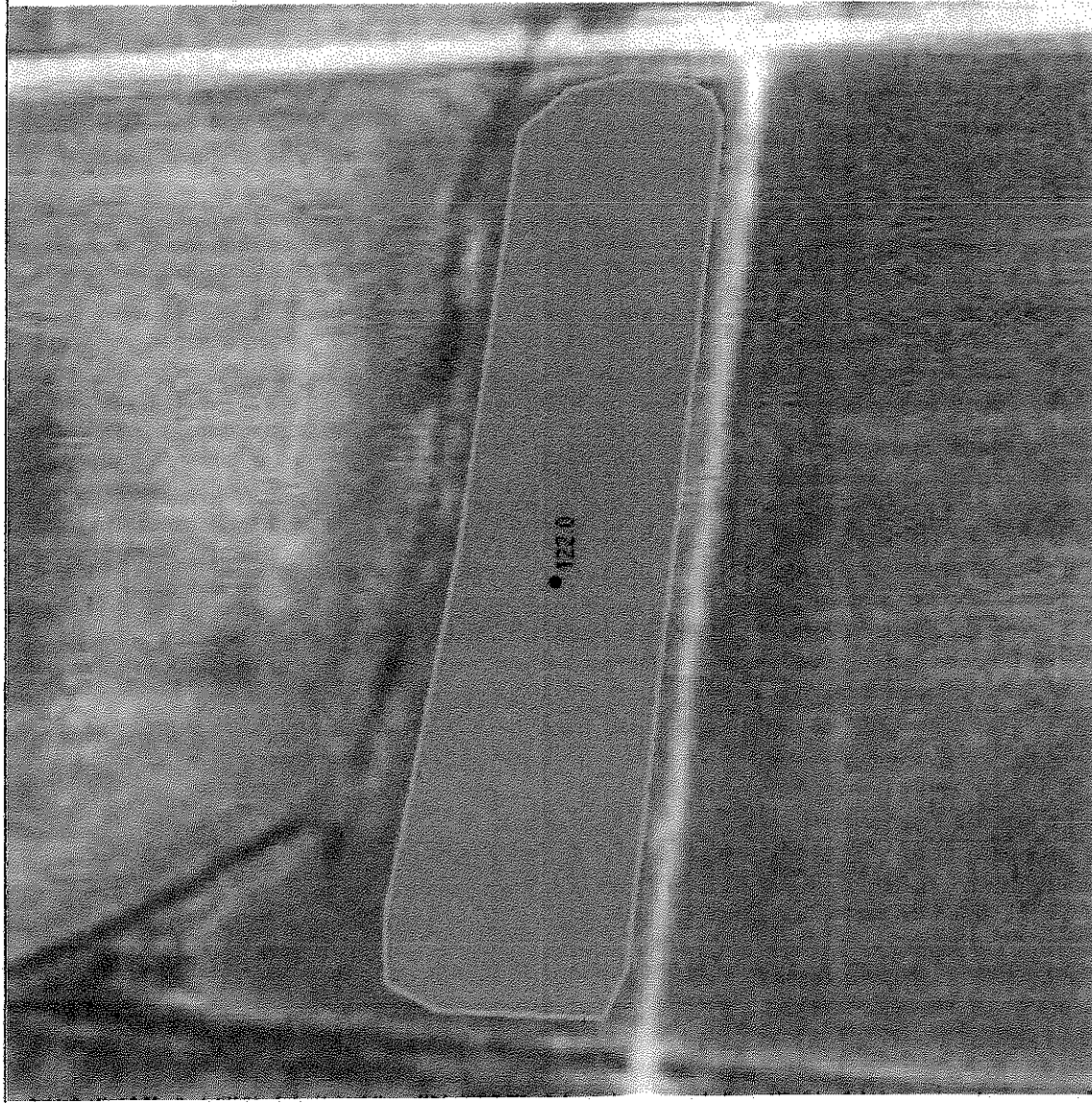
Low

Recommendations		Nutrients expressed in broadcast lbs/A, except Fe (foliar) and Mn (row)										
Yr	Crop	CaCO3	N	P2O5	K2O	Mg	S	B	Cu	Fe	Mn	Zn
10	Corn 180 bu											

Lime expressed in 100% pure CaCO3. Adjust accordingly. D=Dolomitic. C=Calcitic.

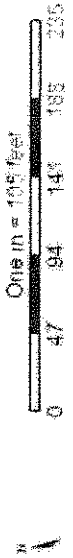
Corn: Starter fertilizer is normally suggested regardless of soil test levels. Monitor and adjust nutrient program based on annual leaf analysis.

P Surface



Grower: Jerome Kill
Farm: Banet
Field: N of Drive
Area: 1.82 ac

Season: 2012
Min: 122.00 lb/ac

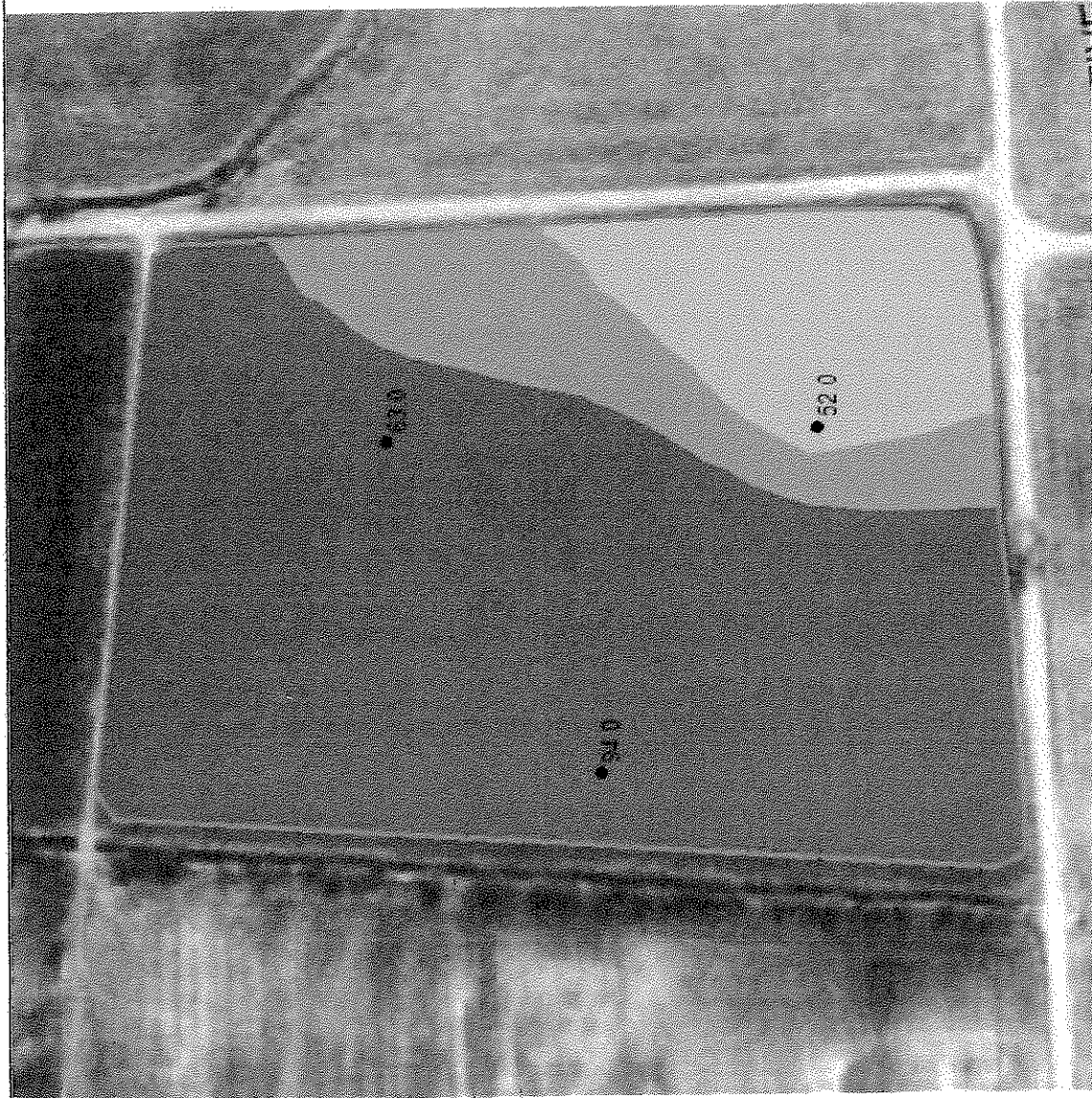


Field Boundary
P lb/ac
■ < 40 (0.0 ac) (0.0 %)
■ 40 - 45 (0.0 ac) (0.0 %)

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Grower: Jerome Kill
Farm: Banet
Field: N of Drive
Area: 1.82 ac
Season: 2012
Min: 457.00 lb/ac

P Surface



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One In = 174 feet
0 78 156 234 312 390

Grower: Jerome Kill
Farm: Banet
Field: S of Drive
Area: 13.59 ac

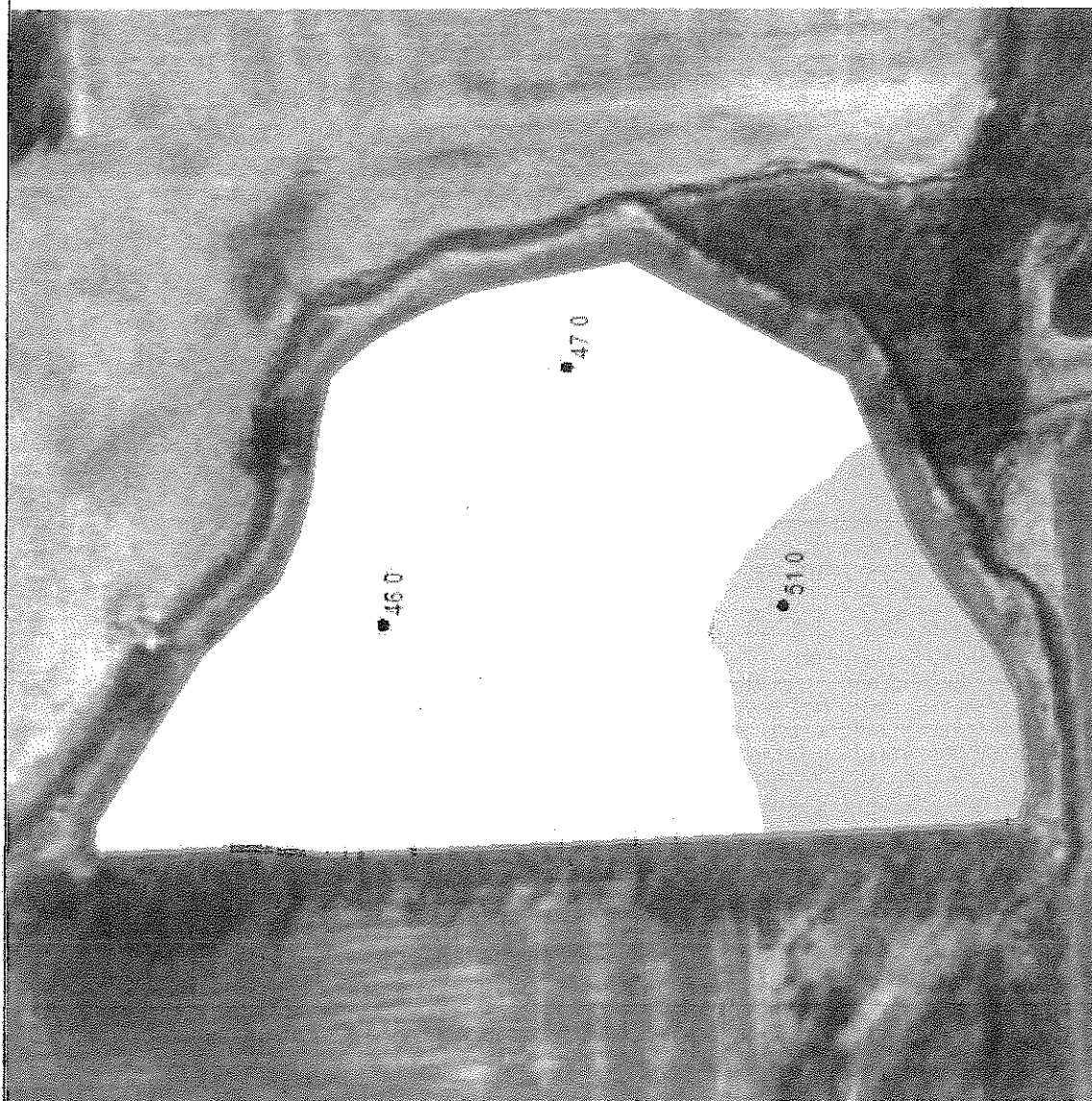
Field Boundary
P lb/ac
<40 (0.0 ac) (0.0 %)

Season: 2012
Min: 50 to 110 lb/ac

Grower: Jerome Kill
Farm: Banet
Field: S of Drive
Area: 13.59 ac

Season: 2012
Min: 348.56 lb/ac

P Surface



Grower: Jerome Kill
 Farm: Taylor
 Field: 1
 Area: 11.37 ac
 Season: 2012
 Min: 45.84 lb/ac



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 MAR 09 2012

Field Boundary
 P lb/ac
 < 40 (0.0 ac) (0.0 %)
 40 - 45 (0.0 ac) (0.0 %)

Grower: Jerome Kill
 Farm: Taylor
 Field: 1
 Area: 11.37 ac
 Season: 2012

MORTALITY MANAGEMENT PLAN

OVERVIEW - Under Ohio law the disposal methods for dead livestock are as follows: burning, burial, composting, rendering, and landfill. See rule 901:10-2-15 of the Administrative Code and Sections 941.14, 953.26, 1511.022, and 3734.02 of the Ohio Revised Code. Mortality disposal must be performed using best management practices that are consistent with these sections. NPDES requirements prohibit the holder of a permit from disposing of any mortality in manure storage and treatment facilities, storm water management facilities, or any other treatment system that is not specifically designed and approved for mortality.

Burning - Burning mortalities is a biologically safe disposal method. The incinerator should be sited in a convenient location that will avoid potential problems and be downwind of livestock housing, farm residences, and neighbors. Owners or operators are encouraged to contact the Ohio EPA for information regarding incineration.

Burial - Burial involves excavating a grave or pit, filling the bulk of the excavation with dead animals, and then covering them with soil until the grave or pit is filled. Where burial is allowed, it must be in accordance with Ohio Revised Code Section 941.14.

Composting - Composting is similar to the process of natural decomposition except that it is enhanced and accelerated by mixing organic waste with other ingredients in a manner that optimizes microbial growth. Owners or operators who use composting are required to be certified by Ohio State University Extension or a local Soil and Water Conservation District.

Rendering - The use of rendering services recycles the nutrients contained in dead animals. Proper biosecurity measures must be utilized to minimize the spread of disease from farm to farm by transport vehicles and personnel. If animals are rendered, they should be transported to the rendering service within twenty-four hours of their death. The owner or operator is encouraged to contact the Ohio Department of Agriculture's Division of Animal Industry for additional information.

Sanitary Landfill - Sanitary landfills are engineered burial facilities for disposal of solid waste. Disposal of dead poultry and/or animals in a sanitary landfill is permitted in some areas. The CAFF or MCAFF is encouraged to contact the landfill operator to determine if the landfill accepts dead animals, the fees associated with the animals, and the proper containers for transport and disposal.

INSTRUCTIONS - A record of the date and time of each inspection for animal mortality must be recorded in the Operating Record at a frequency specified by the facility on this form. In order to complete this form, you should read the Ohio Department of Agriculture's Operating Record Form 9. Upon approval of the Permit to Operate and/or NPDES permit, you are required to maintain an Operating Record at your facility that documents your actions to comply with this mortality management plan. You may use other forms besides Form 9, provided those forms are pre-approved by ODA.

MORTALITY MANAGEMENT PLAN

Name of Facility: Blue Stream Dairy

	Name	Phone
Local Veterinarian:	Mark Hardesty	(419)-925-4212
Ohio Department of Agriculture:	Animal Industry	(614) 728-6220
Ohio Department of Agriculture:	Livestock Environmental Permitting	(614) 387-0470

DISPOSAL METHODS

(Check all that apply)	LOCATION	EQUIPMENT NEEDED
<input type="checkbox"/> Burning		
<input type="checkbox"/> Burial		
<input type="checkbox"/> Composting*		
<input checked="" type="checkbox"/> Rendering	G&G Inc. 5671 South Wayne Ave. Fort Wayne, IN 46807 260-353-3352	Front-end Loader
<input type="checkbox"/> Sanitary Landfill		

*Check for moisture, carbon source, turning and leachate containment weekly.

BEST MANAGEMENT PRACTICES: Describe the best management practices that will be used to dispose of dead livestock:

Dead livestock to be removed within 24 hours, or in warm weather to be covered with sawdust or wasted feed and observed for any pest activities. Pest activities to be treated immediately with spraying/trapping. Dead livestock to remain in isolated area on site until removal. Removal is to be completed with a liquid tight containment. Rendering service to be utilized in the event of any catastrophic loss of livestock.

CATASTROPHIC MORTALITY EVENT: Provide a short description of procedures to be used in the event of a catastrophic loss if normal mortality management methods cannot handle such losses:

Dead livestock to be removed within 24 hours, or in warm weather to be covered with sawdust or wasted feed and observed for any pest activities. Pest activities to be treated immediately with spraying/trapping. Dead livestock to remain in isolated area on site until removal. Removal is to be completed with a liquid tight containment. Rendering service to be utilized in the event of any catastrophic loss of livestock.

INSECT AND RODENT CONTROL PLAN

Purpose: The Insect and Rodent Control Plan is required in order to minimize the presence and negative effects of insects and rodents at the farm and in surrounding areas, including land on which the manure may be stockpiled or applied. The Insect and Rodent Control plan shall comply with the requirements in Rule 901:10-2-19 of the Ohio Administrative Code (OAC) and shall be incorporated into the Permit to Operate upon approval.

The term "IRC Plan" is used in this form to refer to Insect and Rodent Control Plan. The term "pests" is used throughout and includes both insects and rodents.

Rule 901:10-2-19 sets forth a number of best management practices that an owner or operator should consider when preparing and submitting an IRC Plan. Please refer to this rule for assistance in preparing the IRC Plan.

The following sections are required for the Insect and Rodent Control Plan:

- PART 1: INTEGRATED PEST MANAGEMENT NARRATIVE
- PART 2: PEST MONITORING AND CONTROL METHODS
- PART 3: MAINTENANCE ACTIVITIES
- PART 4: EQUIPMENT AND OTHER DEVICES FOR PEST CONTROL AND MAINTENANCE
- PART 5: STORING, STOCKPILING, AND LAND APPLYING MANURE
- PART 6: EMERGENCY PEST CONTROL PROCEDURES
- PART 7: OPERATING RECORD REQUIREMENTS

Name of Facility: Blue Stream Dairy
Contact Person: Jon Morrison

INTEGRATED PEST MANAGEMENT NARRATIVE

Provide a brief narrative description of the integrated pest management approach to be used by the facility. Items that should be included in this narrative are areas of the facility that could be conducive to breeding or living habitat of pests, types of pests that could be present at the facility and the monitoring and treatment options that will be considered to control any of these pests. Please note that more specific details of these items are included in later parts of this plan. [Rule 901:10-2-19(B)(2)(a)]

The pest control plan focuses on prevention of insect and rodent outbreaks. However, when the pest population reaches the point where further action is needed, strong control measures are available to control the pest population. The pest that causes the most concern on dairy farms include insects (house flies, stable flies, and horse flies) and rodents (rats and mice).

PEST MONITORING AND CONTROL METHODS

1. Describe the inspection frequency to examine the pests' population and activities.
[Rule 901:10-2-19(B)(3)(a)(i)]

- Daily: If flies are becoming a nuisance to the employees as they perform their daily routines, this is reported to their supervisor as soon as possible. Any evidence of rodents, such as sightings, finding droppings, gnaw marks seen by employees as they perform their daily routine is reported to their supervisor as soon as possible.

- Weekly: Reporting of any significant fly larvae observed in any stored manure or waste feed areas.

- Monthly: Distribute rodent bait as needed.

- Seasonal or Quarterly: Waste feed and waste sand storage areas are inspected for ponding water areas where insects may breed and these areas eliminated as soon as possible.

2. Explain the methods that will be used to monitor insects (larvae, flies and beetles) and rodents that have been identified as a potential concern. Identify the action level that will be used to trigger additional controls and what those controls will be. Increase inspection frequency for these areas where a potential concern has been identified. If evidence of rodents is observed on a regular basis during routine inspections, then bait will be placed as needed to control the population. An outside service can be used as needed. If flies become a nuisance to the dairy staff or cows, an outside pest control firm will be consulted and appropriate measures taken to reduce and control the fly population.

MAINTENANCE ACTIVITIES

Describe maintenance activities that will be completed to prevent an insect or rodent problem in these respective areas, if applicable to your facility. [Rule 901:10-2-19(B)(3)(a)(i-iv) and 901:10-2-19(B)(3)(b)]

- **Watering System:** Watering systems are inspected and repaired daily to prevent and limit spillage, which will limit insect breeding areas.

- **Feed System and Alleys:** Spilled feed is cleaned up daily.

- **Mortality Storage Areas:** Mortalities will be removed within 24 hours. If needed, especially during warm weather, mortality will be covered with straw or sawdust to control insects or rodents.

- **Manure Storage Areas (including moisture management):**
Regular inspection of storage areas to manage ponded water areas and signs of rodent intrusion.

- **Walkways or walk areas in the buildings:** Daily inspections as these areas are traversed by employees and/or the owner/manager.

- **Walkways or walk areas around and outside the buildings:**
Those areas are cleaned at least weekly, or within 24 hours after each time cattle may be moved through these areas.

- **Describe the fan maintenance, operation and cleaning schedule (include exhaust and pit fans):**
Inspected and repaired every 6 months, or as needed.

- **Describe embankment activities to prevent burrowing animals:**
Regular inspections of embankments and maintaining vegetative cover to manageable levels so rodent activities can be effectively observed.

EQUIPMENT AND OTHER DEVICES FOR PEST CONTROL AND MAINTENANCE

1. List the necessary equipment and chemicals available at the facility to provide control of insects and rodents as described above (i.e.: insecticides, larvicides, rodenticides, space sprays, baits, traps, strips, backpack sprayers, water system repair items, etc.): [Rule 901:10-2-19(B)(3)(b)(iii)]

Blue Stream Dairy, Inc., is a well-managed facility that keeps adequate supplies on hand for maintenance. An inventory is made on a visual basis by the maintenance workers as they go about their daily routine. Spare parts for fixing waterers will be available on site. The dairy will obtain an outside pest control firm to treat for insects and rodents, as needed.

STORING, STOCKPILING, AND LAND APPLYING MANURE

1. Describe measures to monitor and treat pests prior to removing solid manure from storage areas for stockpiling or land applying:

Conduct regular inspections. Remove any ponded water areas. Bait and trap as needed.

2. Describe the measures to treat pests at the manure stockpile after removal from the facility and prior to land application (or prior to arrangements for Distribution and Utilization by another party). [Rule 901:10-2-19(C)]

Care will be taken to monitor insect activity and control insect pests when manure is stockpiled. Observations of areas and addressing any issues with pests will be handled by the farm. Record results of inspections and/or treatments in the Operating Record.

3. Describe measures to be taken for stockpiled manure (i.e., thermal treatment, covers, setbacks, chemical treatment, etc.). [Rule 901:10-2-19(C)]
If temporary stockpiles of manure are necessary, ODA stockpiling and setback rules for permitted facilities (CAFO) will be used. If any treatments for insect and rodents are necessary, those treatments will be recorded in the Operating Record. Monitoring of the area and addressing issues as the design of the facility should minimize problems.

EMERGENCY PEST CONTROL PROCEDURES [RULE 901:10-2-19(D)]

List pertinent contact information in case of a pest control emergency (i.e.: pest control company, professional entomologist, pest control specialist, etc.):

Contact Name	Telephone Number	Fax Number	Email Address
Jon Morrison	419-647-4191	866-862-8815	jmorrison@flexiblefoam.com
County Health Department-Van Wert	419-238-0808	419-238-9571	
ODA – LEPP	614-387-0470	614-728-6335	lepp@agri.ohio.gov

OPERATING RECORD REQUIREMENTS

1. Time and date of inspections of pest populations or activity. [Rule 901:10-2-19(B)(3)(a)]
2. Document a schedule of inspections, housekeeping, and repairs to keep pests under control. [Rules 901:10-2-19(B)(3)(a) and 901:10-16(A)(1)(d)]
3. Manure Stockpile Record. [Rule 901:10-2-16(A)(1)(d) and Rule 901:10-2-19(B)(3)(a)(viii)]
4. Document the supplies that are available at the facility. Note dates to reorder supplies. [Rule 901:10-2-19(B)(3)(b)(iii)]
5. Field observation for pests before and after land application. [Rule 901:10-2-19(C)(2)(g)]

EMERGENCY RESPONSE PLAN

Purpose: The Emergency Response Plan (ERP) is required to be developed and maintained by all Concentrated Animal Feeding Facilities (CAFFs), Major Concentrated Animal Feeding Facilities (MCAFFs), and Concentrated Animal Feeding Operations (CAFOs). Emergency Response Plans are used to minimize the environmental impact of emergencies that could happen at a facility.

Parts 4, 5, 6 and 7 of the Emergency Response Plan are not required as part of the plan. They are however strongly recommended as a resource for the owner or operator to have onsite in case of an emergency.

It is recommended that the owner or operator keep a copy of the ERP in the Operating Record and a copy at the site office so that it is easily accessible to all employees in the case of an emergency.

The following sections are for the Emergency Response Plan:

- PART 1: GENERAL FACILITY INFORMATION RECORD
- PART 2: DISCHARGE OR SPILL EMERGENCY RESPONSE PLAN
- PART 3: LIST OF EMERGENCY EQUIPMENT SUPPLIERS AND CONTACTS
- PART 4: PREARRANGED EMERGENCY RESPONSE AGREEMENTS
- PART 5: FIRE EMERGENCY RESPONSE INFORMATION SHEET
- PART 6: POWER OUTAGE INFORMATION SHEET
- PART 7: PERSONNEL INFORMATION

GENERAL FACILITY INFORMATION RECORD**OWNER/OPERATOR NAME AND FACILITY INFORMATION Rule 901:10-2-17(A)(1)**

Name of Facility: Blue Stream Dairy Contact – Jon Morrison
 Address: 3242 Mentzer Church Road
 City: Convoy State: OH Zip Code: 45832
 Phone: 419-647-4191 Fax: 866-862-8815 Cell: 423-421-6216
 Email: jmorrisson@flexiblefoam.com

Owner/Operator: Blue Stream Dairy Contact – John Stepleton
 Address: 220 South Elizabeth Street
 City: Spencerville State: OH Zip Code: 45887
 Phone: 419-647-4191 Fax: 866-862-8815 Cell:
 Email: jstepleton@flexiblefoam.com

CERTIFIED LIVESTOCK MANAGER (If applicable)

Name:
 Address:
 City: State: Zip Code:
 Phone: Fax: Cell:
 Email:

EMERGENCY CONTACT INFORMATION

1. Second Contact Person, if owner/operator not available:

Name: Kevin Gaskill
 Phone: 419-230-6478 Fax: 866-615-7097 Cell: 419-647-4172

2. Third Contact Person, if owner/operator and second contact not available:

Name:
 Phone: Fax: Cell:

EMERGENCY RESPONSE CONTACT PHONE NUMBERS

Ambulance (EMS): 911 or 419-749-2997
 Fire Department: 911 or 419-749-2997
 County Sherriff: 419-238-3866

EMERGENCY RESPONSE CONTACT PHONE NUMBERS (STATE)

Emergency Management Agency (EMA): 614-889-7150 (24 hour)
 Ohio EPA Emergency Response Spill: (800) 282-9378
 Ohio Department of Agriculture: (614) 387-0470
 After Hours Ohio Department of Agriculture: (800) 282-1955

EMERGENCY RESPONSE CONTACT PHONE NUMBERS (LOCAL/COUNTY)

Local Health Department: 419-238-0808

Natural Resources Conservation Service: 419-238-9591

Soil and Water Conservation District: 419-238-9591

DIRECTIONS TO THE FACILITY FROM NEAREST MAJOR INTERSECTION:

US Route 30 west and turn left on Payne Road/Twp Road 47. Turn right onto Dixon Road. Turn right onto Mentzer Church Road.

FACILITY MAP FOR EMERGENCY RESPONSE

Provide a copy of the facility map (as required on form 3900-PTO-001) that also shows the location of hazardous materials, fuel storage, electrical panels, possible direction of manure runoff, and where berming may take place to contain any accidental discharge. Also, indicate the location of materials that could be used for temporary berms (i.e., dirt piles, old hay bales, sawdust, etc.) Areas shall be identified on the map where potential spills can occur and their accompanying surface and subsurface drainage points.

See map at the end of this section.

DISCHARGE OR SPILL EMERGENCY RESPONSE PLAN

PROCEDURES TO BE FOLLOWED IN THE EVENT OF A DISCHARGE OR MANURE SPILL:

For a discharge or manure spill, the action plan normally involves the recognition and assessment of the problem, notification of authorities, enlistment of help from cooperating producers and others to correct the problem, and restoration of the affected area to its original condition.

Facilities should plan for containment of possible manure spills. Study the drainage patterns from the facility and envision where a manure spill will move while it is still on the property and after it leaves the property. Determine the point at which a spill might enter waters of the state. On some facilities, manure may travel long distances before entering waters of the state. In other cases, waters of the state may be nearby, demanding a much faster response.

In the space below, describe the procedures to be followed in the event of a spill, including actual or imminent discharge to waters of the state. Include the actions to be taken to contain or manage the spill and order of authorities to contact. Identify any equipment and clean-up materials that would be required and how it is to be used. (Rule 901:10-2-17[A][3][a-d])

Recognition and assessment of the problem.

Notification of proper authorities as necessary.

Enlistment of assistance based on assessment.

Ohio EPA emergency response spill hot line.

Ohio Department of Agriculture.

Local authorities as necessitated by on site assessment.

Clean up spill and restore affected area to original condition.

Contain area of spillage, halt source of spill.

File written report to Ohio Department of Agriculture.

ODA EMERGENCY REPORTING PROCEDURE:

THE OWNER OR OPERATOR MUST REPORT A DISCHARGE OR MANURE SPILL BY TELEPHONE TO THE ODA AS SOON AS POSSIBLE, BUT IN NO CASE MORE THAN TWENTY-FOUR HOURS FOLLOWING FIRST KNOWLEDGE OF THE SPILL OR DISCHARGE. IN THE CASE OF AN EMERGENCY OCCURRING AFTER NORMAL BUSINESS HOURS, CONTACT THE ODA'S AFTER HOURS EMERGENCY TELEPHONE NUMBER.

OAC 901:10-2-17 requires the following information to be reported:

- (i) The times at which the discharge or manure spill occurred and was discovered;
- (ii) The approximate amount and the characteristics of the discharge or manure spillage;
- (iii) The waters of the state affected by the discharge or spillage;
- (iv) The circumstances which created the discharge or spillage;
- (v) The names and telephone numbers of persons who have knowledge of these circumstances;
- (vi) Those steps being taken to clean up the discharge or spillage; and
- (vii) The names and telephone numbers of persons responsible for the cleanup.

THE OWNER OR OPERATOR SHALL ALSO FILE A WRITTEN REPORT OF THE OCCURRENCE IN LETTER FORM WITHIN FIVE DAYS FOLLOWING FIRST KNOWLEDGE OF THE OCCURRENCE, UNLESS OTHERWISE WAIVED BY THE DIRECTOR OF AGRICULTURE. THIS REPORT SHALL OUTLINE THE ACTIONS TAKEN OR PROPOSED TO BE TAKEN TO CORRECT THE PROBLEM AND TO ENSURE THAT THE PROBLEM DOES NOT RE-OCCUR. (901:10-2-17[A][4][d])

THE WRITTEN REPORT SHALL BE SENT TO THE FOLLOWING ADDRESS:

**OHIO DEPARTMENT OF AGRICULTURE
LIVESTOCK ENVIRONMENTAL PERMITTING PROGRAM
A.B. GRAHAM BUILDING
8995 EAST MAIN STREET
REYNOLDSBURG, OH 43068**

LIST OF EMERGENCY EQUIPMENT SUPPLIERS AND CONTACTS

This includes equipment that is available twenty-four hours a day. Include phone numbers and primary contacts. Put a list in the order that the owner or operator would like the equipment operators contacted. Post a copy of this list at the facility where it will be easily accessible and visible in the event of an emergency. (Rule 901:10-2-17[A][3][d])

OWNER	PHONE	LOCATION	COMMENTS
IRRIGATION PUMPS:	419-991-5751	Hume Supply, Lima, OH	General Contractor
BULLDOZER/TRACK LOADER:	419-991-5751	Hume Supply, Lima, OH	General Contractor
BACKHOE:	419-991-5751	Hume Supply, Lima, OH	General Contractor
VACUUM SLURRY TANK:	419-991-5751	Hume Supply, Lima, OH	General Contractor
OTHER:	419-991-5751	Hume Supply, Lima, OH	General Contractor

PREARRANGED EMERGENCY RESPONSE AGREEMENTS

This part is not required, but strongly recommended.

To deal with an emergency quickly and effectively, most operations need assistance from other individuals. It is essential that prior arrangements be made so every person involved knows what to do when an emergency arises. Individuals can quickly bring equipment such as tractors with plows, backhoes, bulldozers, or personnel with shovels. Reciprocal agreements can be established with these neighbors.

If a spill occurs, it is very important to have access to nearby land, irrigation, and earth-moving equipment. In most cases, the owner or operator, producer, farmer, or emergency response personnel must contact people who own the equipment needed to respond to a spill. Having a prearranged written agreement with these people simplifies matters. The terms of these arrangements should include such things as financial compensation and a description of the equipment that would be used. List any arrangements made with other owners, operators, or producers and neighbors to share personnel and/or equipment, supplies, and land access during an emergency.

ACCESS AGREEMENT – (The following is a sample land access agreement.)

This document will serve as an access land agreement between

_____, hereafter called Owner or Operator and
_____, hereafter called Neighbor.

In the unlikely event that a manure discharge originating from the owner or operator's property enters neighbor's property, neighbor hereby grants permission to owner or operator or his agents to enter neighbor's property and take any reasonable steps to control, contain, and remediate the manure discharge.

Owner or Operator agrees to restore Neighbor's property to its original condition.

Owner/Operator Print Name

Owner/Operator Signature

Date Signed

Neighbor Print Name

Neighbor Signature

Date Signed

List any arrangements made with other owners or operators to share personnel and/or equipment, supplies, and land access during an emergency.

AGREEMENTS ON FILE:

Contract One: _____

Contract Two: _____

LAGOON PUMPING SERVICES:

Lagoon Pumping Services should be within a reasonable distance from the facility and able to respond to an emergency at the facility.

Name: Fert Haul

Address: 8151 Zeeb Road, Dexter MI 48130

Phone: 800-937-5968

Name: _____

Address: _____

Phone: _____

Name: _____

Address: _____

Phone: _____

FIRE EMERGENCY RESPONSE INFORMATION SHEET*This part is not required but strongly recommended.*

Farm Fire Protection District and Phone Number:	Convoy Volunteer Fire and EMS 911 or 419-749-2997
Address of Facility:	3242 Mentzer Church Road, Convoy, Ohio 45832
Size and Type of Operation:	2,000 dairy cow operation

Describe the procedures to be followed and people/organizations to contact in their order of importance in the case of fire. Include any equipment that would be required and how it is to be used.

If the situation allows utilization of on-site fire extinguishing equipment; in case of facility fire, help will be summoned by contacting the fire department and the 911 operators; evacuate facility as necessary.

Fuel

List the fuels and tank volumes located on the facility:

300 gallons diesel – south side of mechanical building, east of building

PROPANE GAS COMPANY

Name: Briceton LP & Water Treatment

Phone: 800-733-3890

Size of propane tanks: 2 – 1,000 gallons-south side of mechanical building, east of building

HAZARDOUS MATERIALS

If hazardous materials are stored on the facility, provide the locations and a list of the materials:

Yes – 300 gallons diesel fuel - south side of mechanical building, east of building

(see attached map)

POWER OUTAGE INFORMATION SHEET

This part is not required, but strongly recommended.

ELECTRICAL POWER COMPANY

Name: Paulding Putnam Electric

Phone: 419-399-5015

Size of Electrical Service: 2 - 400 amps

GENERATOR

Is there a Standby Generator? ☒ Yes ☐ No

If so, is there a Double-Throw Disconnect to Isolate the Facility from the Utility During Generator Operation? ☒ Yes ☐ No

Is there a Disconnect between the Meter Base and Panel? ☐ Yes ☒ No

ELECTRICIANS WHO PERFORM SERVICE ON THE FACILITY

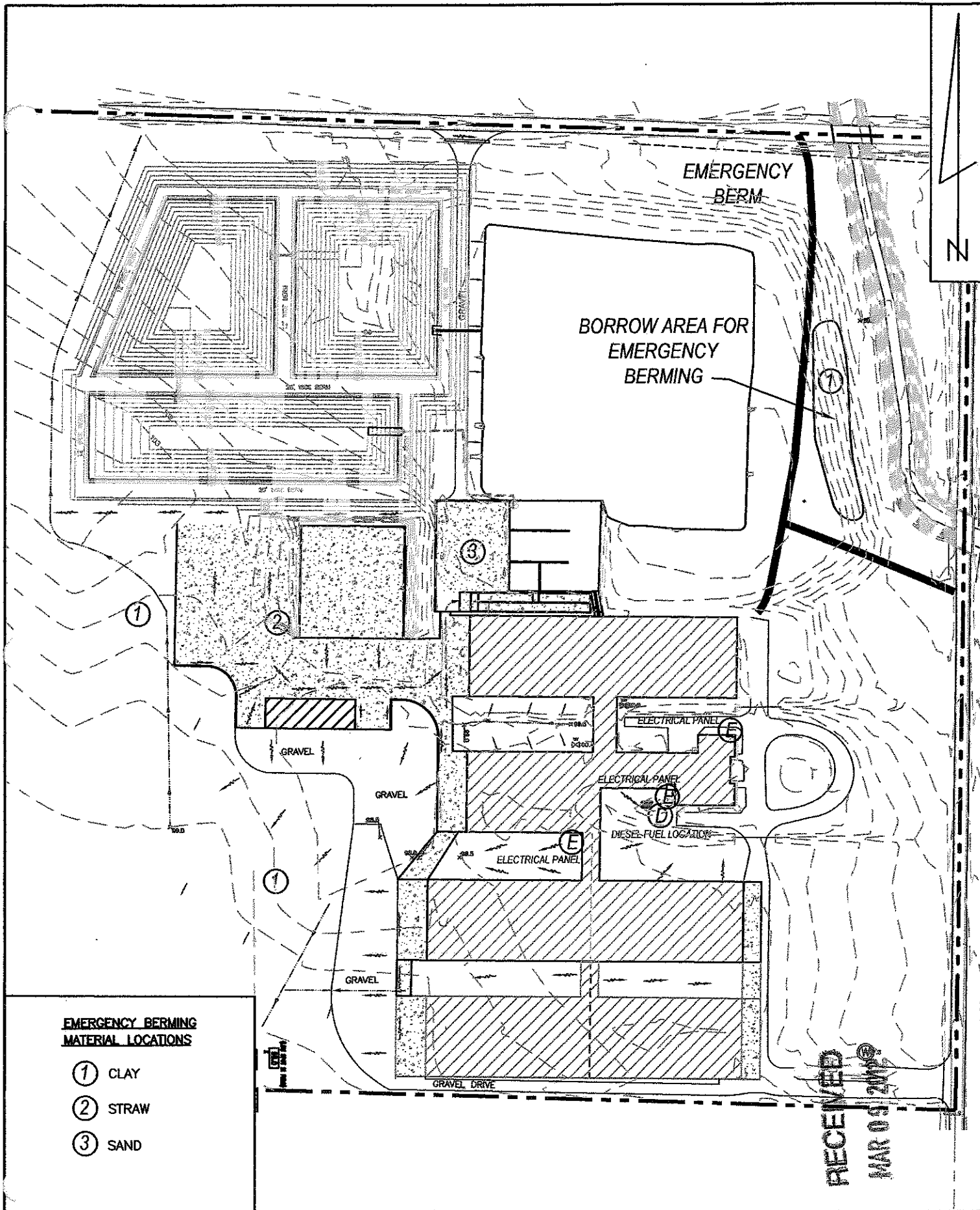
	NAME	PHONE NUMBER
1.	Sprint Electric	419-222-0494
2.		
3.		
4.		
5.		

PERSONNEL INFORMATION

This part is not required but strongly recommended.

The CAFF/MCAFF should have an up-to-date list of any persons who are employed by the owner or operator. This personnel information document should be filled out by the owner or operator and should contain any special responsibilities of the employees employed at the facility.

NAME	SPECIAL RESPONSIBILITIES
Kevin Gaskill	Assistant Safety & Compliance
Jon Morrison	Regulatory Contact



BLUE STREAM DAIRY

EMERGENCY RESPONSE PLAN

179 of 189

SCALE: NOT TO SCALE

DATE: 1-23-12

DWG: BST005-ERP

81-110-PTO-002

81-110-PTO-002

FINAL PERMIT



NORTH POINT
ENGINEERING

6657 FRANK AVE. N.W.
Suite 200
N.Canton, Ohio 44720
330 - 494 - 8888
Fax 330 - 494 - 8889

81-110-PTI-002
81-110-PTO-002
FINAL PERMIT

LAND APPLICATION EQUIPMENT RECORD

Please list all equipment to be used as part of managing manure at the manure storage or treatment facility. At a minimum, this list includes land application equipment used as indicated in the chart below. Record the dates of inspections, maintenance, calibration monitoring and repairs. All repairs shall be completed promptly. Rule 901:10-2-08(A)(2) and (A)(3) of the OAC.

Equipment Type	Date Calibrated	List Maintenance Performed (i.e. oil changes, beaters cleaned, end gates checked, hose leak etc.)	Date of Maintenance
Solid Spreader			
Liquid Spreader – Injected			
Liquid Spreader – Surface Spray			
Liquid Spreader – Knives up			
Hose pull – Knives up			
Hose pull – Injected			
Traveling gun			
Standing pipe			
Center pivot			
Other-			

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81-110-PTI-002
81-110-PTO-002
FINAL PERMITOhio Department of Agriculture
Livestock Environmental Permitting
Operating Record (LEPP-3900-011)
July 2009
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FABRICATED STRUCTURES FOR DRY MANURE STORAGE

Manure Storage/Structure Identification:						
Days of Storage:						
Total Depth of Storage:						
Less Freeboard:						
Volume of Storage: <input type="checkbox"/> Cubic Feet <input type="checkbox"/> Tons						
Less Freeboard:						
Month	Day	Manure Operating Levels <i>(Approximate percent capacity remaining)</i>	Structural Integrity	Manure Removal Dates <i>(See Manure Log)</i>	Grass Waterways	Vegetative Cover
January						
February						
March						
April						
May						
June						
July						
August						
September						
October						
November						
December						

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WATER LINE INSPECTION LOG SHEET

Instructions: Use this form to keep track of your daily water line visual inspections and initial the form each day after the inspection is done.

Building ID:				
Month:				
Year:				
Day	Initials	Leak Detected	Leak Fixed	Comments
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
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 Livestock Environmental Permitting
 Operating Record (LEPP-3900-011)
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ANNUAL REPORT FORM FOR CALENDAR YEAR 20_____

Instructions: The owner or operator shall submit an annual report to the Ohio Department of Agriculture, Livestock Environmental Permitting Program for the prior year. The annual report shall be submitted on this form. If the operation has had any discharges during the past year, also include the Annual Discharge Report form, which is attached. Please use the information recorded in your Operating Record to provide the summary information for this form.

Please provide the following information, as required by Rule 901:10-2-20 of the OAC:

Name of Facility: _____

1. Summarize the number and type of animals, whether in open confinement or housed under roof (beef cattle, broilers, layers, chickens other than laying hens, swine weighing 55 pounds or more, swine weighing less than 55 pounds, mature dairy cows, dairy heifers, veal calves, sheep and lambs, horses, ducks, turkeys, other):

2. Summarize the estimated amount of total manure generated by this operation in the previous twelve months:

_____ ☐ Tons / ☐ Gallons / ☐ Both

3. Provide the total number of acres for land application covered by the Manure Management Plan developed with your Permit or RCC:

4. Provide the total number of acres under control of the owner or operator that were used for land application of manure in the previous twelve months:

5. Estimated amount of total manure transferred to other person by the facility:

_____ ☐ Tons _____ ☐ Gallons

6. Provide a summary of all manure discharges from the production area¹ that have occurred in the prior year, including date, time, and approximate volume. Use attached form, Annual Discharge Report, if the information will not fit here:

¹ "Production area" means any of the following components of an animal feeding facility:

- (1) Animal confinement areas, including, but not limited to, open lots, housed lots, feedlots, confinement houses, stall barns, free stall barns, milk rooms, milking centers, cow yards, barnyards, medication pens, animal walkways, and stables;
- (2) Manure storage areas, including, but not limited to, manure storage or treatment facilities;
- (3) Raw material storage areas, including, but not limited to, feed silos, silage bunkers, commodity buildings, and bedding materials;
- (4) Waste containment areas, including, but not limited to, any of the following:
 - (a) An egg washing or egg processing facility;
 - (b) An area used in the storage, handling, treatment, or disposal of mortalities;
 - (c) Settling basins, runoff ponds, liquid impoundments, and areas within berms and diversions that are designed and maintained to separate uncontaminated storm water runoff from contaminated water and to contain and treat contaminated storm water runoff.

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FORM 12: EMERGENCY SPILL REPORT FORM CONTINUED

NAME OF FACILITY:	
DATE AND TIME OF DISCHARGE/SPILL¹:	
DATE AND TIME DISCHARGE/SPILL DETECTED:	
AMOUNT²:	
CHARACTERISTICS OF THE DISCHARGE OR MANURE SPILLAGE³	
LOCATION/WATER WAY AFFECTED⁴:	
SPILL OCCURRED BECAUSE:	
NAMES/PHONE NUMBERS OF PERSONS WITH KNOWLEDGE OF SPILL	
AGENCIES CONTACTED:	
EQUIPMENT USED:	
STEPS TAKEN TO CONTAIN AND REMEDIATE THE SPILL:	

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Ohio Department of Agriculture
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SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Mr. Kyle J Wendel P.S., P.E.
Van Wert County Engineer
220 S Market Street
Van Wert OH 45891

2. Article Number

(Transfer from service label)

7005 1160 0004 9999 1355

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *[Signature]*☐ Agent☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

1/30/05

D. Is delivery address different from item 1? ☐ YesIf YES, enter delivery address below: ☐ No

3. Service Type

☒ Certified Mail ☐ Express Mail☐ Registered ☐ Return Receipt for Merchandise☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee)

☐ Yes

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Tully Township Trustees
Van Wert County
6020 Lare Road
Convoy OH 45832

2. Article Number

(Transfer from service label)

7005 1160 0004 9999 1348

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *[Signature]*☐ Agent☐ Addressee

B. Received by (Printed Name)

Karen S. Baxter

C. Date of Delivery

1-30-05

D. Is delivery address different from item 1? ☐ YesIf YES, enter delivery address below: ☐ No

3. Service Type

☒ Certified Mail ☐ Express Mail☐ Registered ☐ Return Receipt for Merchandise☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee)

☐ Yes

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Van Wert County Commissioners
114 E Main Street Suite 200
Van Wert OH 45891

2. Article Number

(Transfer from service label)

7007 1490 0004 0249 9202

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *[Signature]*☐ Agent☐ Addressee

B. Received by (Printed Name)

Pam Henderson

C. Date of Delivery

1/30/05

D. Is delivery address different from item 1? ☐ YesIf YES, enter delivery address below: ☐ No

3. Service Type

☒ Certified Mail ☐ Express Mail☐ Registered ☐ Return Receipt for Merchandise☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee)

☐ Yes

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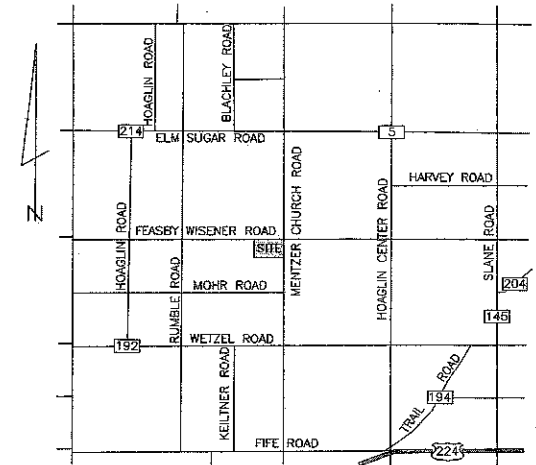
MAR 09 2012

SITE DEVELOPMENT PLANS FOR PROPOSED BLUE STREAM DAIRY EXPANSION TULLY TOWNSHIP, VAN WERT COUNTY, OHIO

OWNER/APPLICANT:
BLUE STREAM DAIRY, INC.
P.O. BOX 126
220 SOUTH ELIZABETH STREET
SPENCERVILLE, OHIO 45887
PHONE: 419-647-4191
FAX: 866-862-8815

FACILITY:
BLUE STREAM DAIRY
3242 MENTZER CHURCH ROAD
CONVOY, OHIO 45832
CONTACT: JON MORRISON

PLANS PREPARED BY:
NORTH POINT ENGINEERING CORPORATION
6657 FRANK AVENUE NW SUITE 200
NORTH CANTON, OH 44720
PHONE 330-494-8888
FAX: 330-494-8889
CONTACT: DAVID GERDEMAN, P.E.
dgerdeman@npecorp.com



LOCATION MAP
NOT TO SCALE

SHEET INDEX

DWG. NO.	SHEET NO.	DRAWING TITLE
BST005-01	1 OF 2	TITLE SHEET AND SITE PLAN
BST005-02	2 OF 2	MANURE STORAGE CALCULATIONS

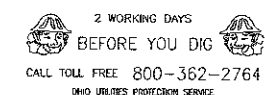
LEGEND

---	PROPERTY LINE
---	EXISTING CONTOURS FROM SURVEY PERFORMED BY R.D. ZANDE & ASSOCIATES, MARCH 2007

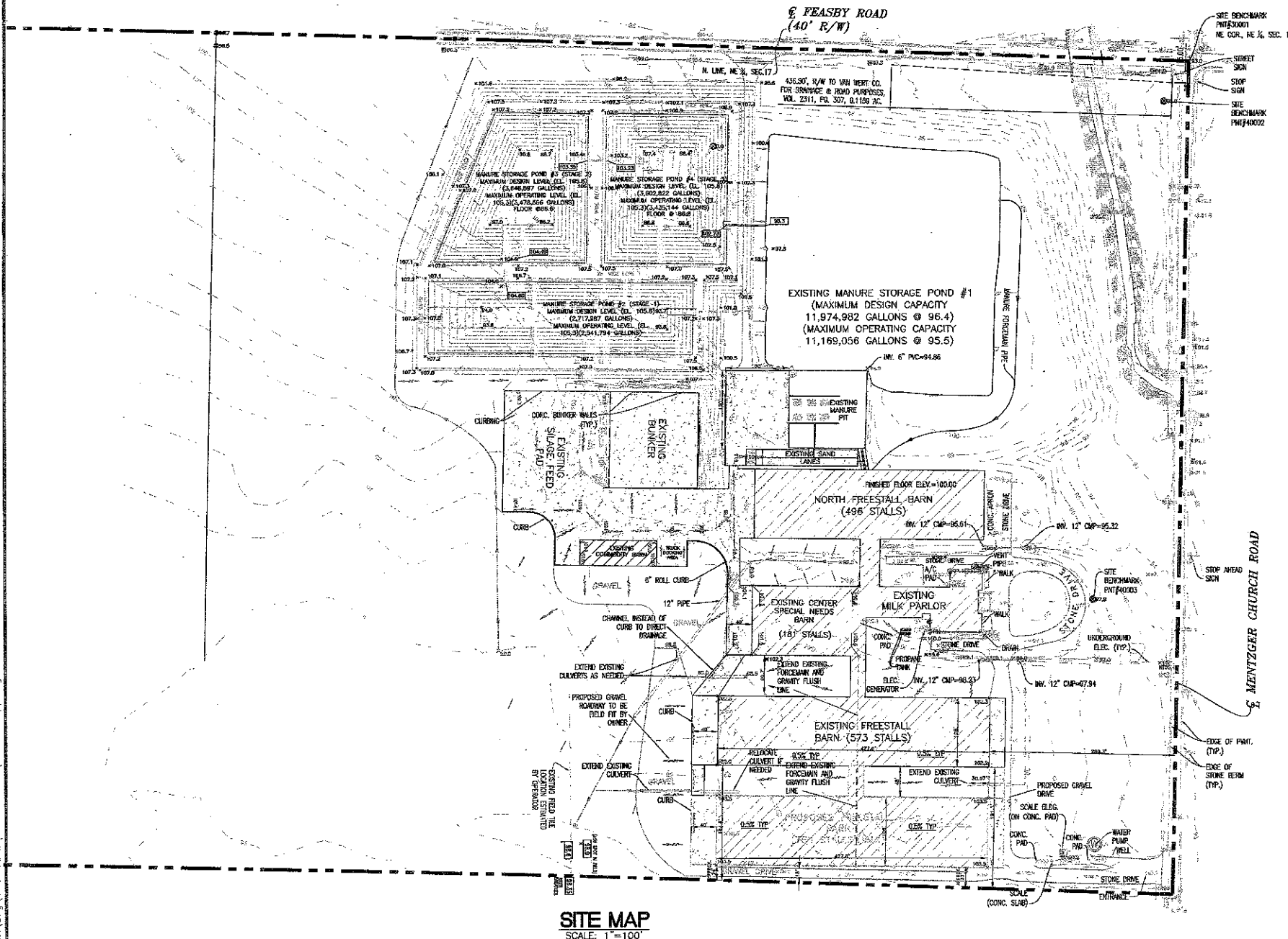
Point No.	Northing(Y)	Easting(X)	Elev(Z)	Description
30001	479464.055	1342993.048	93.046	0119
40002	479401.380	1342954.299	92.039	0123
40003	478622.896	1342846.735	97.840	0123

SUBMITTED
JANUARY 23, 2012
REVISED
FEBRUARY 28, 2012

NOT TO SCALE
DRAFT



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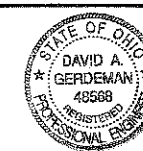
SITE MAP
SCALE: 1"=100'

REVISIONS					DESCRIPTION
NUMBER	DATE	MADE BY	CHECKED BY		
188 of 189					

DATE: 1-23-12
PREPARED BY: DAG
DRAWN BY: DRB
CHECKED BY: DAG

NORTH POINT ENGINEERING
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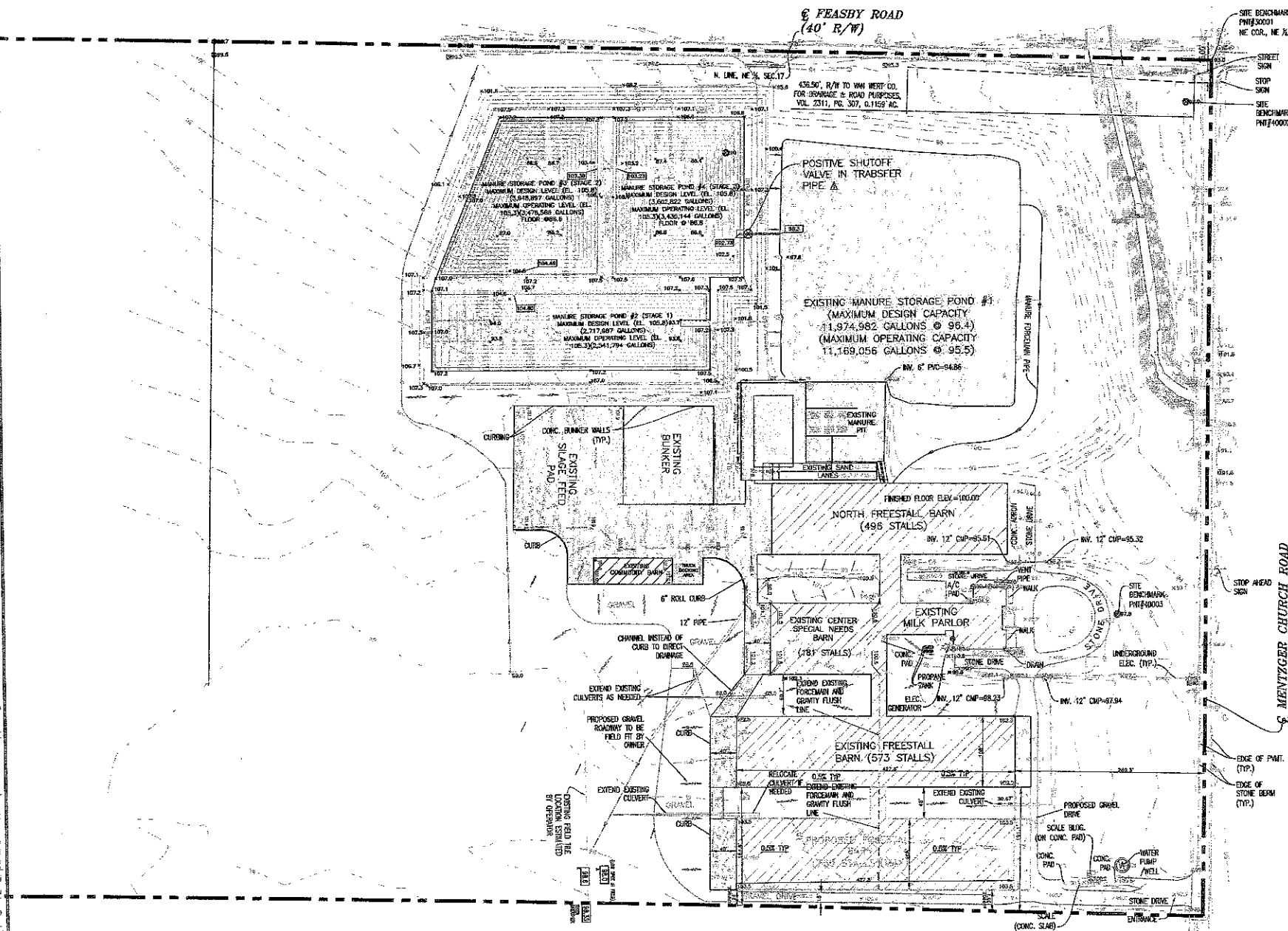
81-110-PTI-002
81-110-PTO-002
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27872



BLUE STREAM DAIRY, INC.
BLUE STREAM DAIRY EXPANSION
TITLE SHEET AND SITE PLAN
TULLY TOWNSHIP, VAN WERT COUNTY, OHIO

RECEIVED
MAR 09 2012
LIVESTOCK PERMIT #1

projects\B5T005-Dairy Expansion\B5T005-mpp.dwg - Mar 08, 2012 - 8:29am - drc:cheshire



SITE MAP
SCALE: 1"=100'

NOT TO SCALE
DRAFT

Bluestream Dairy Expansion Manure Volumes January 23, 2012					
1. Dairy Operations					
a. Manure					
Cow Type	Gallons/cow	x No. of Cows	x Storage Period (days)	= Gals	To Storage Pond
Dry	13.6	200	265	1,489,200	1,489,200
Lactating	17.7	170	265	10,922,550	10,922,550
b. Bedding					
Type	Bedding (lbs)	x No. of Cows	x Storage Period (days)	= Total Bedding	(gals)
Sand	40	2000	365	28,000,000	28,000,000
Adjusted Bedding to Soling Basin (Assumes 10% Reduced Efficiency)				2,141,333	(gals)
				107,067	(gals)
c. Wash water					
Gallons/cow	x No. of Cows	x Storage Period (days)	= Gals		
2.70	2000	365	5,840,000	(gals)	5,840,000
Total Manure Volume (includes manure, bedding and wash water)				SUBTOTAL	16,419,757
2. Normal Precipitation					
a. Average precipitation less evaporation on the storage pond and settling basin					
See table below and pond sizes section					
Month	Precipitation (in)	Evaporation (in)	30 yr avg net (in)		
January	2.70	0.50	2.20		
February	2.10	0.50	1.60		
March	2.60	0.50	2.10		
April	3.80	0.50	3.30		
May	3.80	0.50	3.30		
June	3.90	0.50	3.40		
July	3.50	0.50	3.00		
August	4.50	0.50	4.00		
September	2.90	0.50	2.40		
October	2.80	0.50	2.30		
November	2.70	0.50	2.20		
December	2.80	0.50	2.30		
Totals	35.50	32.25	3.25		
Collection area				7.15	acres (existing ponds and settling basin shown in map)
Total Area				7.15	
Net collected				64,671	ft ³ SUBTOTAL (gals) 524,887
b. Normal runoff from facility into ponds					
Total annual average precipitation					
Runoff area are all impermeable surfaces				35.50	inches (shown in GREEN on this sheet)
Runoff factor at 52% of precipitation				2.67	inches (AWWRF Figure 10C.2)
Total runoff				18.40	ft ³ SUBTOTAL (gals) 1,342,005
3. 100 Year Precipitation					
a. 100-year 24-hour precipitation on pond #1 surface and settling basin					
100-year 24-hour storm					
Pond #1 and Settling Basin area				6.4	acres
Collected precipitation				3.43	inches
				67,834	ft ³ SUBTOTAL (gals) 544,464
b. Runoff 100-year 24-hour storm from facility into pond #1					
100-year 24-hour storm rainfall					
Runoff area				2.67	acres
Runoff factor at 52% of precipitation				2.67	inches (AWWRF Figure 10C.2)
Total runoff				5.16	inches from TR-55 Fig 2.1
				56,199	ft ³ SUBTOTAL (gals) 454,464
4. Storage Leachate Seepage					
a. Leachate seepage					
Seepage					
Seepage storage per acre				1.0	cubic feet per ton of stored sludge
Seepage storage area				21,500	tons per storage acre
Seepage Leachate Seepage Volume				21,500	acres (actual storage area)
				21,500	ft ³ SUBTOTAL (gals) 168,000
5. Residual Solids					
a. Residual solids					
Depth allowed for residual solids storage					
Floor area of pond				2.21	acres (1 existing pond + ponds 2,3 and 4)
Total volume				90,265	ft ³ SUBTOTAL (gals) 728,000
REQUIRED STORAGE VOLUME FOR 365 DAYS (including 100 year storm volume)					
				22,156,088	(gals)
6. 100 Year 24 Hour Storm Rainfall and Runoff					
100 year rain event will be spread over manure pond #1					
Rainfall and Runoff from 100 Year 24 Hour Storm					
Pond area of Pond #1 Operating Level				117,237	ft ² (Sections 3a and 3b)
Depth needed to store 100 year rainfall and runoff				2.70	acres (existing pond)
				1.0	ft (Difference between design and operating levels for pond #1)
7. Daily Generation Volume					
Annual Manure Generation					
Manure generation per day				20,958,079	gal
Days of storage				260	days (conservatively assumed at ponds 1 and 4 only)
				5,449,040	gal (conservatively assumed at ponds 1 and 4 only)
8. Total Days Liquid Manure Storage Provided					
Existing Sand Settling Basin					
Storage days				300,000	gal half capacity at max operating level
				5	days
Existing Manure Pond #1 at MCL					
Storage days				11,492,255	gal at max operating level
				186	days
Existing Manure Pond #2 at MCL					
Storage days				2,641,791	gal at max operating level (100.3)
				45	days
Existing Manure Pond #3 at MCL					
Storage days				3,475,885	gal at max operating level
				62	days
Existing Manure Pond #4 at MCL					
Storage days				3,095,195	gal at lower flow thru level (set 104.0)
				54	days
Existing Manure Pond #4 at MCL					
Storage days				3,435,144	gal at max operating level
				61	days
Existing Manure Pond #4 at MCL					
Storage days				2,832,703	gal at lower flow thru level (set 103.4)
				50	days
2 WORKING DAYS BEFORE YOU DIG CALL TOLL FREE 800-362-2764 GHD UTILITIES PROTECTIVE SERVICE					

REVISIONS					DATE:
NUMBER	DATE	MADE BY	CHECKED BY	DESCRIPTION	1-23-12
A	2-28-12	TJR	DAG	ADDED SHUTOFF VALVE NOTE	PREPARED BY: DAG
189 of 189					DRAWN BY: DRB
					CHECKED BY: DAG

NORTH POINT
ENGINEERING

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81-110-PTO-002
FINAL PERMIT

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2-28-12



BLUE STREAM DAIRY, INC.
BLUE STREAM DAIRY EXPANSION
MANURE STORAGE CALCULATIONS
TULLY TOWNSHIP, VAN WERT COUNTY, OHIO

SITE DEVELOPMENT PLANS FOR PROPOSED BLUE STREAM DAIRY NEW MANURE STORAGE PONDS TULLY TOWNSHIP, VAN WERT COUNTY, OHIO

OWNER/APPLICANT:
BLUE STREAM DAIRY, INC.
P.O. BOX 126
220 SOUTH ELIZABETH STREET
SPENCERVILLE, OHIO 45887
PHONE: 419-647-4181
FAX: 866-862-8815

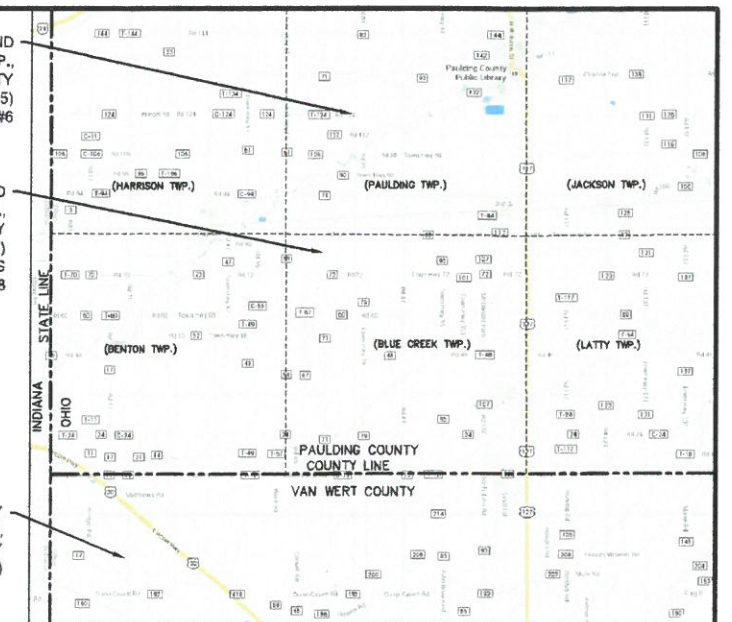
FACILITY:
BLUE STREAM DAIRY
3242 MENTZER CHURCH ROAD
CONVOY, OHIO 45832
CONTACT: JON MORRISON

PLANS PREPARED BY:
NORTH POINT ENGINEERING CORPORATION
6657 FRANK AVENUE NW SUITE 200
NORTH CANTON, OH 44720
PHONE: 330-494-8888
FAX: 330-494-8889
CONTACT: DAVID GERDEMAN, P.E.
dgerdeman@npecorp.com

TR-124 POND
PAULDING TWP.,
PAULDING COUNTY
(SEE SHEET 5)
MANURE POND #6

CR-71 POND
BLUE CREEK TWP.,
PAULDING COUNTY
(SEE SHEET 6 & 7)
MANURE PONDS
#7 & #8

BLUESTREAM DAIRY
LOCATION, TULLY TWP.,
VAN WERT COUNTY
(SEE SHEETS 2, 3, 4 & 8)



AREA MAP
NOT TO SCALE

SHEET INDEX

DWG NO.	SHEET NO.	DRAWING TITLE
BST008-01	1 OF 8	TITLE SHEET & SITE PLAN
BST008-02	2 OF 8	SUBSURFACE INFORMATION - DAIRY POND
BST008-03	3 OF 8	STING PLAN
BST008-04	4 OF 8	DAIRY - MANURE STORAGE POND PLAN & DETAILS
BST008-05	5 OF 8	TR-124 MANURE POND #6
BST008-06	6 OF 8	CR-71 MANURE PONDS #7 & #8 PLAN & DETAILS
BST008-07	7 OF 8	CR-71 MANURE PONDS #7 & #8 SUBSURFACE INFORMATION
BST008-08	8 OF 8	MISC

SITE BENCHMARK COORDINATES (WITH F.F. ELEVATIONS)

Point No.	Northing (Y)	Eastings (X)	Elev (Z)	Description
30001	479464.055	1342993.048	93.046	0119
40002	479401.380	1342954.299	92.039	0123
40003	478622.896	1342846.735	97.840	0123
40004	478397.899	1342290.377	99.931	0123

GENERAL NOTES

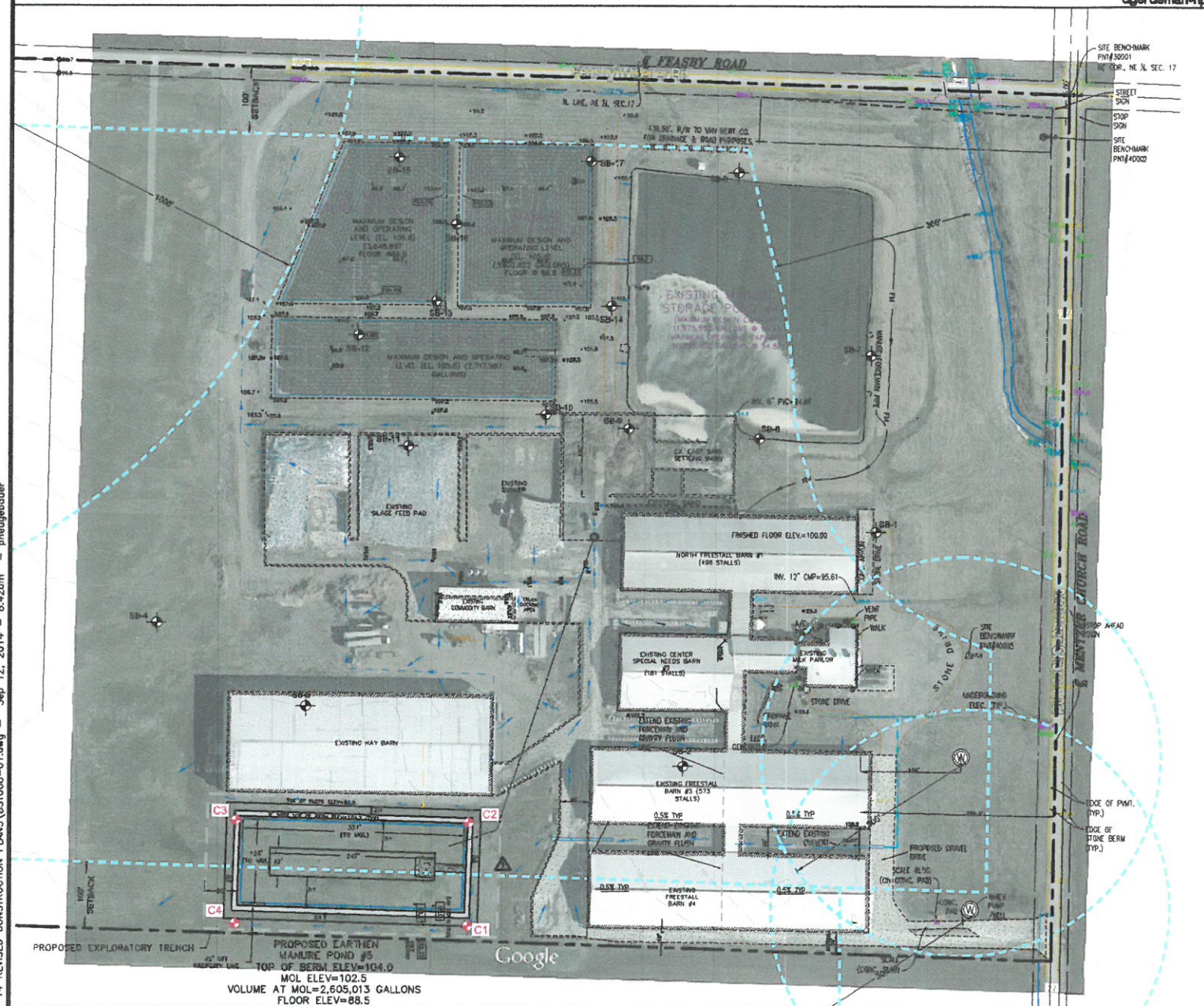
- THE PROPOSED DAIRY IS A FLUSH FLUME OPERATION WITH SAND LANES. THE FLUSH FORCEMAIN FEED LINE AND THE GRAVITY COLLECTION FLUME RUN THRU THE CENTER OF THE BARN.
- ALL PROCESS WATER DRAINS FROM THE BUILDINGS ARE TO BE RE-USED OR DRAINED OR FLUSH FLUME OR PUMPED TO THE EXISTING SETTLING BASIN.
- ALL ACCESS ROADWAYS SUBJECT TO TRACTOR-TRAILER TRAFFIC SHALL HAVE A MINIMUM 70' RADIUS.
- BUILDING PLANS, AND UTILITY DETAILS PROVIDED BY OTHERS AND ARE NOT INCLUDED IN THIS PLAN SET.
- ALL CULVERT PIPES SHALL BE CORRUGATED HDPE SMOOTH INTERNAL WALL W/PREMIUM JOINTS. (ADS N12 OR EQUAL)
- CONTRACTOR IS RESPONSIBLE TO VERIFY ALL SURFACE AND SUBSURFACE CONDITIONS AT THE SITE PRIOR TO BIDDING AND CONSTRUCTION OF THE PROJECT.
- REFER TO THE APPROVED STORMWATER POLLUTION PREVENTION PLAN FOR LOCATIONS OF ALL TEMPORARY AND PERMANENT SOIL EROSION CONTROL MEASURES REQUIRED FOR THE FACILITY. THE CONTRACTOR SHALL STRICTLY FOLLOW ALL REQUIREMENTS OF THE SWP3.
- MAINTAIN A MINIMUM OF 3 FEET OF COVER OVER FORCEMAINS.
- RIPRAP PROTECTION AT CULVERT INLETS AND OUTLETS, AS WELL AS DESIGNATED SECTIONS OF DRAINAGE CHANNELS, SHALL BE 12 INCHES THICK OF 6 INCH DIAMETER ROCK OR CLEAN BROKEN CONCRETE UNDERLAIN BY WOVEN GEOTEXTILE FABRIC. EXTEND RIPRAP A MINIMUM OF 3 FEET BEYOND CULVERT AND COVER THE BOTTOM AND UP ALL SIDES OF THE DITCH FOR THIS LENGTH. THE CHANNEL SECTIONS SHALL BE OVEREXCAVATED SUCH THAT THE FINISHED SURFACE OF THE ROCK IS FLUSH WITH THE CHANNEL SURFACE. THE RIPRAP WILL SURROUND THE END OF THE CULVERT PIPE AND EXTEND OVER THE ENTIRE CHANNEL SURFACE.
- AT THE BEGINNING OF CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE A 48" DEEP FIELD TILE EXPLORATORY TRENCH A MINIMUM OF 50 FEET OUTSIDE THE PROPOSED MANURE STORAGE POND AND SHALL PERMANENTLY PLUG ALL ENCOUNTERED FIELD TILE SYSTEMS (IF DRAINING AWAY) AND/OR REROUTE THE ENCOUNTERED TILE SYSTEM IN A MANNER ACCEPTABLE TO THE OWNER. ALL TILES INSIDE OF THE 80' SETBACK SHALL BE COMPLETELY REMOVED. NOTE THAT A SUBSTANTIAL TILE SYSTEM MAY BE PRESENT AT THE SITE AND SIGNIFICANT SUBSURFACE WATER MAY BE PRESENT. CONTRACTOR IS RESPONSIBLE FOR ALL DEWATERING ACTIVITIES REQUIRED DURING CONSTRUCTION.

SUBMITTED:

May 6, 2014

REVISED: July 2, 2014
AUGUST 22, 2014

AS APPROVED



SITE PLAN
SCALE: 1"=100'

REVISIONS					DATE:
NUMBER	DATE	MADE BY	CHECKED BY	DESCRIPTION	
1	7/3/14	PAN	DAG	REDIRECTED SURFACE WATER AROUND POND 5	5-6-14
2	8/22/14	LMB	DAG	UPDATED BASEMAP AND POND NUMBERING	
					PREPARED BY: DAG
					DRAWN BY: PAN
					CHECKED BY: DAG
					FILE: BST008-01



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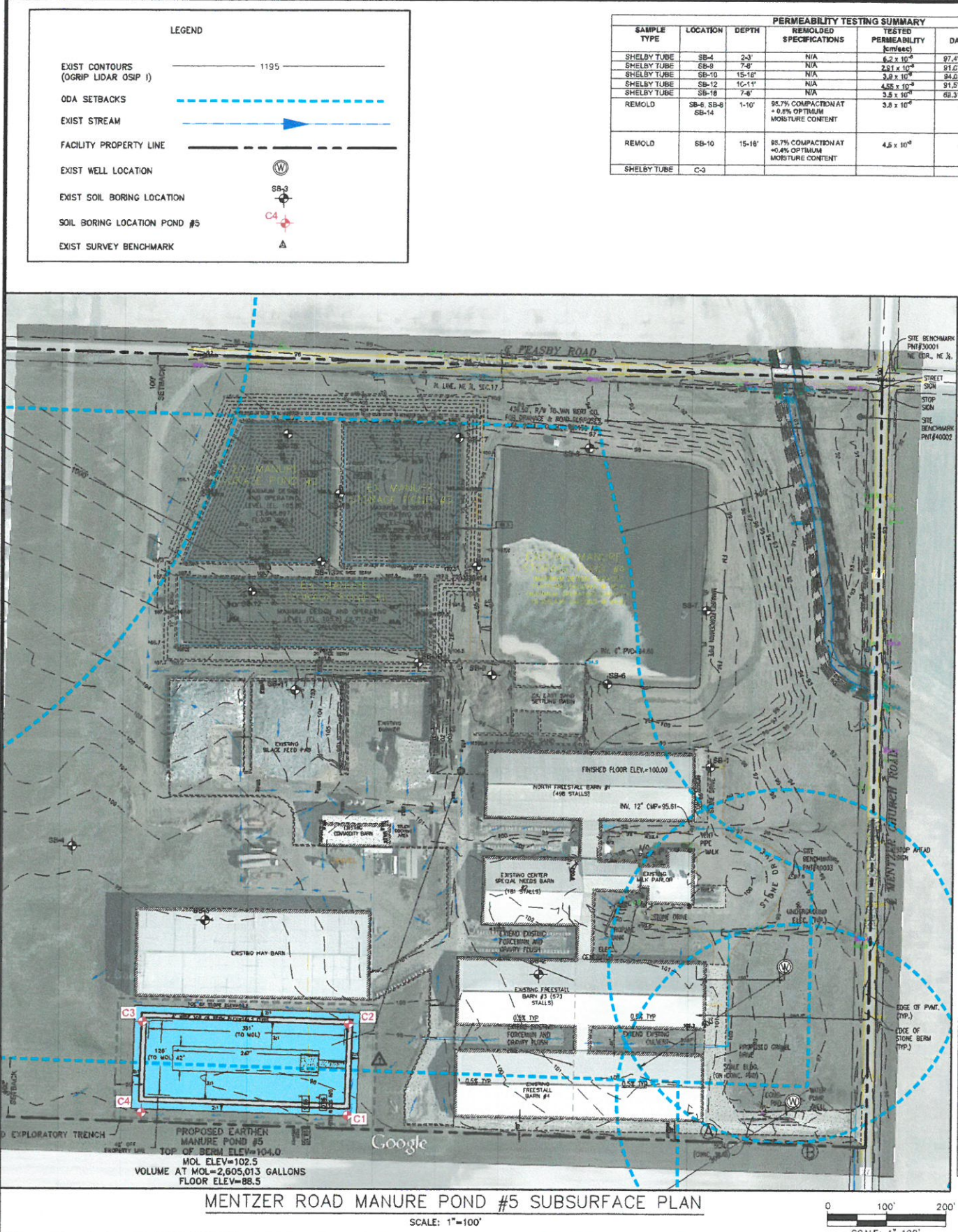
DATE

BLUE STREAM DAIRY, INC.

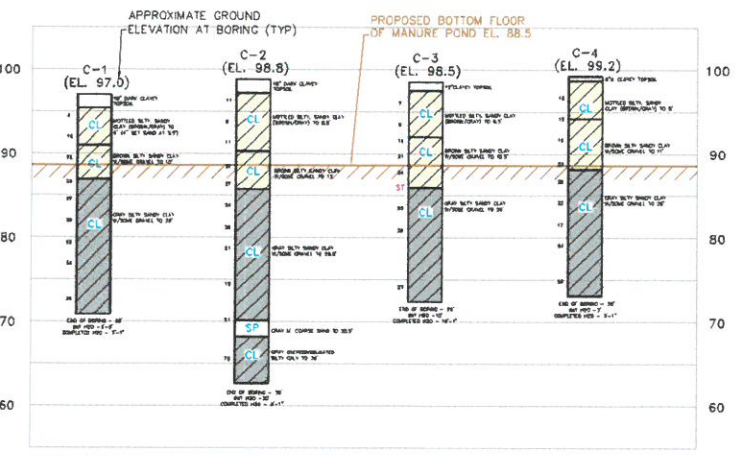
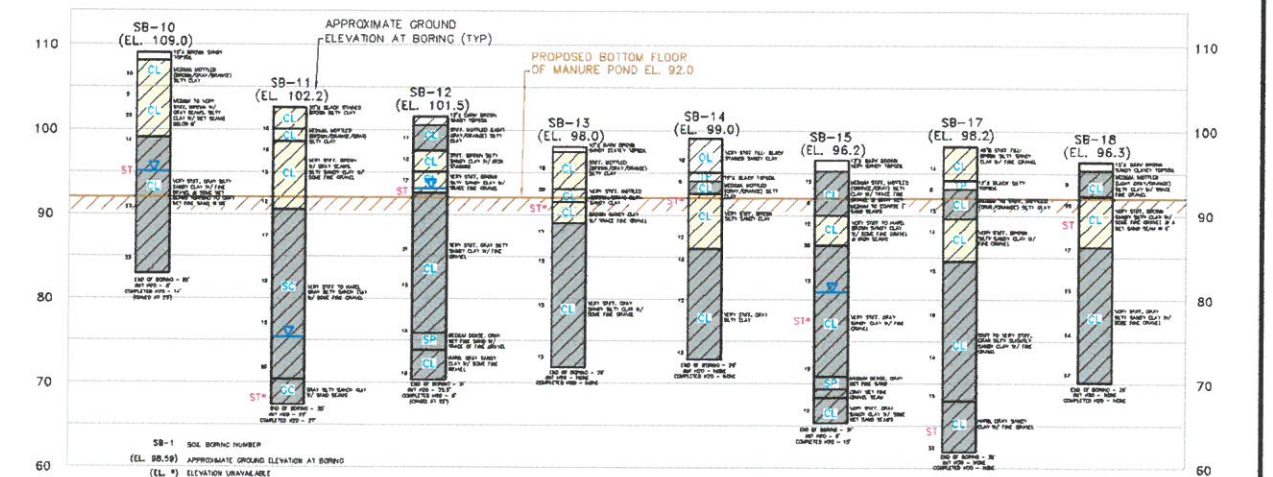
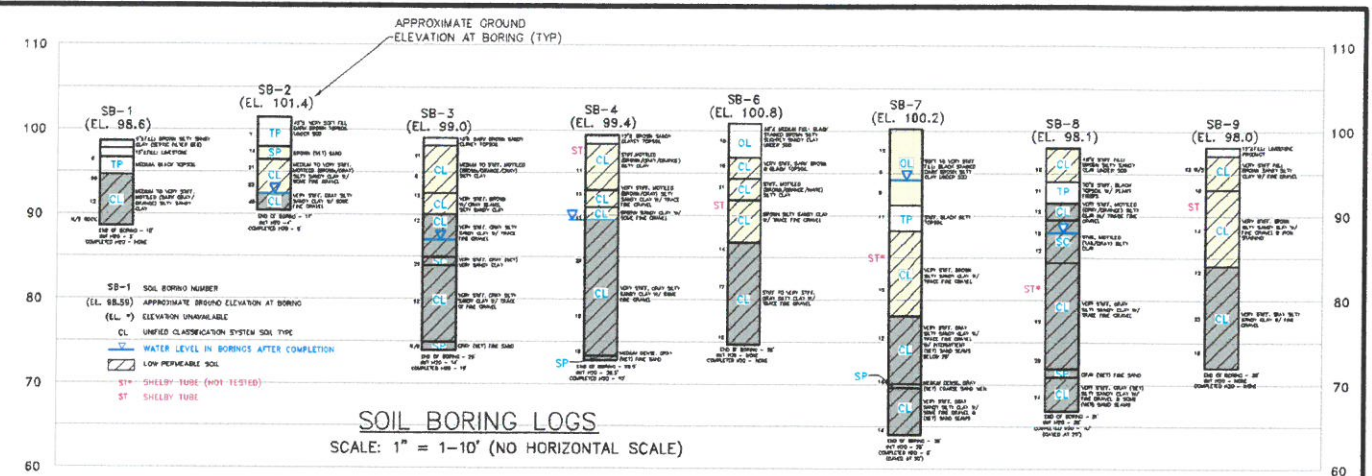
BLUE STREAM DAIRY EXPANSION
TITLE SHEET AND SITE PLAN

TULLY TOWNSHIP, VAN WERT COUNTY, OHIO

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PERMEABILITY TESTING SUMMARY						
SAMPLE TYPE	LOCATION	DEPTH	REMOLED SPECIFICATIONS	TESTED PERMEABILITY (cm/sec)	DATUM	PLASTICITY INDEX
SHELBY TUBE	SB-4	2'-3"	N/A	6.2 x 10 ⁻⁸	97.4'-98.4'	20.9
SHELBY TUBE	SB-9	7'-8"	N/A	2.61 x 10 ⁻⁸	91.2'-90.0'	18
SHELBY TUBE	SB-10	15'-16"	N/A	3.8 x 10 ⁻⁸	94.0'-93.0'	16.8
SHELBY TUBE	SB-12	10'-11"	N/A	4.8 x 10 ⁻⁸	91.5'-89.5'	15.1
SHELBY TUBE	SB-18	7'-8"	N/A	3.8 x 10 ⁻⁸	89.3'-88.3'	16.2
REMOLD	SB-6, SB-8, SB-14	1'-10"	95.7% COMPACTION AT +0.6% OPTIMUM MOISTURE CONTENT	3.8 x 10 ⁻⁸	-	-
REMOLD	SB-10	15'-16"	95.7% COMPACTION AT +0.4% OPTIMUM MOISTURE CONTENT	4.8 x 10 ⁻⁸	-	-
SHELBY TUBE	C-3					



STANDARD PENETRATION TEST CORRELATION CHART - U.S.C.		
SOIL	DESIGNATION	BLOWS/FOOT
NON-COHESIVE (GRANULAR)	(DENSITY) VERY LOOSE	5 BLOWS/FOOT OR LESS
	LOOSE	5 TO 10 BLOWS/FOOT
	MEDIUM DENSE	10 TO 30 BLOWS/FOOT
	DENSE	30 TO 50 BLOWS/FOOT
COHESIVE	(CONSISTENCY) VERY SOFT	3 BLOWS/FOOT OR LESS
	SOFT	4 TO 5 BLOWS/FOOT
	MEDIUM	6 TO 10 BLOWS/FOOT
	STIFF	11 TO 15 BLOWS/FOOT
ORGANIC	VERY STIFF	16 TO 30 BLOWS/FOOT
	HARD	31 BLOWS/FOOT OR MORE

REVISIONS				
NUMBER	DATE	MADE BY	CHECKED BY	DESCRIPTION
1	7/3/14	PAN	DAG	REDIRECTED SURFACE WATER AROUND POND 5
2	8/22/14	LMB	DAG	REVISED BASEMAP

DATE: 5-6-14	PREPARED BY: DAG
DRAWN BY: PAN	CHECKED BY: DAG
FILE: BSTD008-02	

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DATE

BLUE STREAM DAIRY, INC.

BLUE STREAM DAIRY EXPANSION

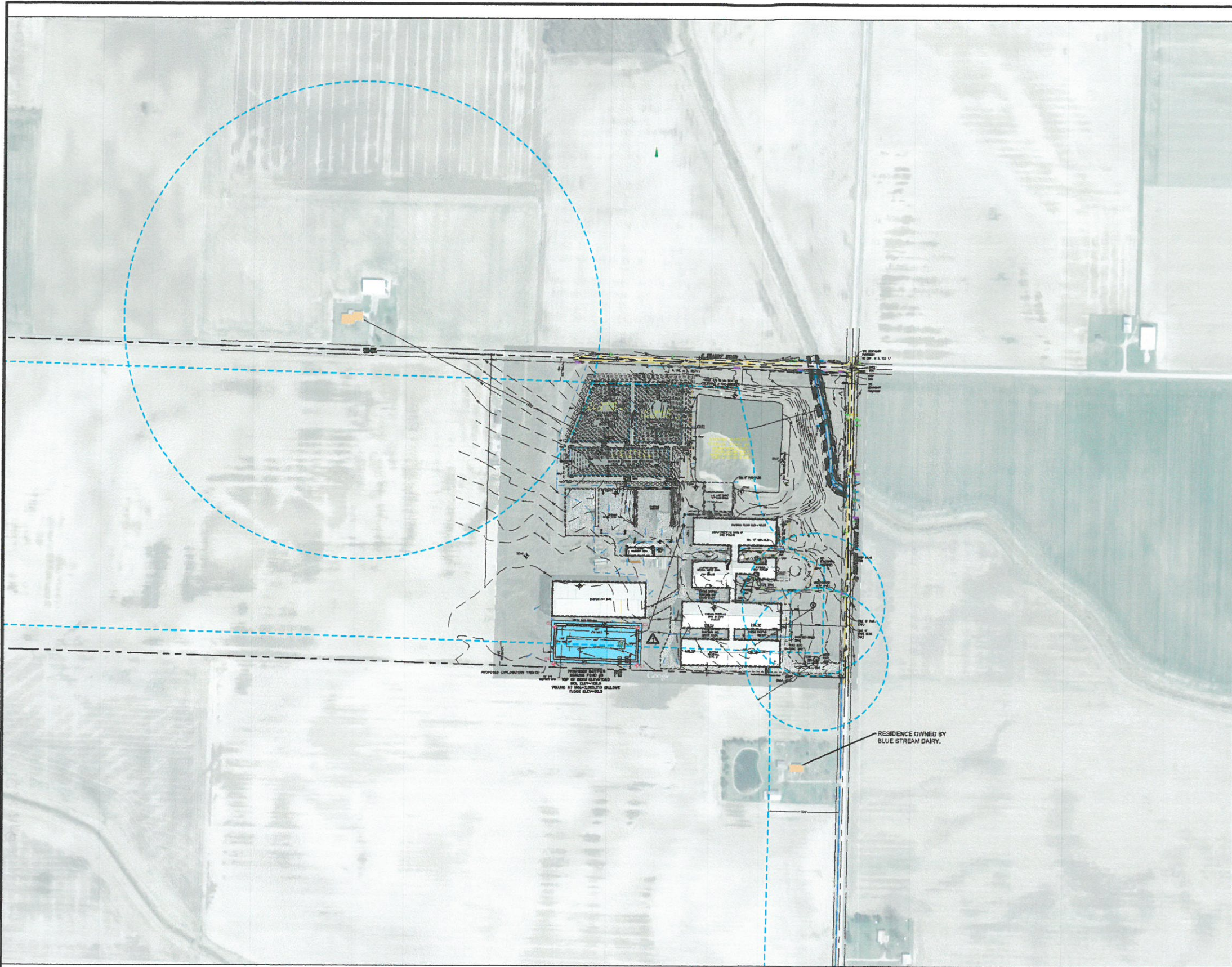
SUBSURFACE INFORMATION-DAIRY POND

TULLY TOWNSHIP, VAN WERT COUNTY, OHIO

2

8

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SITING PLAN LEGEND

EXIST CONTOURS (OGIP LIDAR OSIP I) ——— 1195 ———

ODA SETBACKS ———

EXIST STREAM ———

FACILITY PROPERTY LINE ———

EXIST WELL LOCATION ⊙

EXIST ADJACENT RESIDENCE [Orange Box]

EXIST SOIL BORING LOCATION +

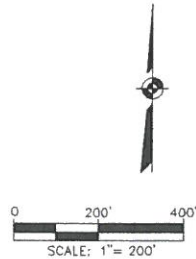
SOIL BORING LOCATION POND #5 C4

EXIST SURVEY BENCHMARK ▲


SETBACK REQUIREMENTS (CAFF)		
	REQUIRED SETBACK AS MEASURED FROM FABRICATED STRUCTURES (FEET)	REQUIRED SETBACK AS MEASURED FROM STORAGE PONDS AND LAGOONS (FEET)
STREAMS	120	300
WATER WELLS	50	300
PUBLIC WATER WELLS (OWNED BY FACILITY)	300 (N/A)	300 (N/A)
PROPERTY LINES	100	100
NEIGHBORING RESIDENCES	500 (SOLID) 1000 (LIQUID)	500 (SOLID) 1000 (LIQUID)

MENTZER ROAD MANURE POND #5 SITING PLAN

SCALE: 1"=200'



REVISIONS					DATE: 5-6-14
NUMBER	DATE	MADE BY	CHECKED BY	DESCRIPTION	PREPARED BY: DAG
1	7/3/14	PAN	DAG	REDIRECTED SURFACE WATER AROUND POND 5	DRAWN BY: PAN
2	8/22/14	LMB	DAG	UPDATED BASEMAP	CHECKED BY: DAG
					FILE: BST008-03



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REG. PROF. ENG. DAVID A. GERDEMAN, P.E. LICENSE NO. E-46588

DATE

BLUE STREAM DAIRY, INC.

BLUE STREAM DAIRY EXPANSION

SITING PLAN

TULLY TOWNSHIP, VAN WERT COUNTY, OHIO

MANURE STORAGE POND DESIGN NOTES
AND CONSTRUCTION SPECIFICATIONS

MEASURING DEVICE

FOR EACH PROPOSED STORAGE POND, THE OWNER WILL INSTALL ONE LEVEL MEASURING DEVICE. THE MEASURING DEVICE SHALL BE A 12" HIGH 5/8" DIA. WIRE REBAR ANCHORED INTO THE CONCRETE RAMP PORTION OF THE INLET SCOUR PROTECTION AS NOTED IN THE PLANS. A SEPARATE ROD WILL BE SET FOR EACH ELEVATION STARTING AT THE MAXIMUM OPERATING ELEVATION OF 102.5 AND EVERY EVEN ONE FOOT INCREMENT BELOW THAT DOWN TO AT LEAST HALF WAY TO THE POND FLOOR. THE ACTUAL FINAL ELEVATIONS TO BE USED WILL BE DETERMINED AT COMPLETION OF CONSTRUCTION BASED UPON REVIEW OF AS-BUILT DRAWINGS BY CERTIFYING ENGINEER.

ENGINEERED SOIL FILL CONSTRUCTION

ENGINEERED FILL SHALL CONSIST OF ON-SITE EXCAVATED COHESIVE, SOIL MATERIALS. AREAS TO RECEIVE FILL SHALL BE STRIPPED TO REMOVE ALL VEGETATION, TOPSOIL AND OTHER UNSUITABLE MATERIALS PRIOR TO THE PLACEMENT OF FILL MATERIALS. ENGINEERED FILL SHALL BE PRE-QUALIFIED BY THE CERTIFYING ENGINEER. THE CONTRACTOR SHALL ONLY USE PRE-QUALIFIED SOILS DESIGNATED BY THE OWNER. ENGINEERED FILL SHALL BE FREE OF FOREIGN MATERIALS, REFUSE, ROOTS OR OTHER DELETERIOUS SUBSTANCES. ENGINEERED LOOSE LIFT THICKNESS SHALL BE NO GREATER THAN 12 INCHES PRIOR TO COMPACTION. THINNER LIFTS ARE PERMISSIBLE TO ACHIEVE DESIGN GRADES. PRIOR TO COMPACTION, EACH LIFT OF ENGINEERED FILL MATERIAL SHALL BE WORKED TO REDUCE CLOD SIZES TO GENERALLY LESS THAN 3 INCHES. COMPACTION OF LIFTS SHALL BE PERFORMED WITH AN APPROPRIATELY HEAVY, PROPERLY BALLASTED, PENETRATING-FOOT COMPACTOR SUBJECT TO APPROVAL OF THE OWNER. THE DAILY WORK AREA SHALL EXTEND A DISTANCE NO GREATER THAN NECESSARY TO MAINTAIN MOIST SOIL CONDITIONS (FACILITATE BONDING) AND CONTINUOUS OPERATIONS. DESICCATION AND CRUSTING OF LIFT SURFACE SHALL BE AVOIDED AS MUCH AS POSSIBLE. IF DESICCATION AND CRUSTING OF THE LIFT SURFACE OCCURS BEFORE PLACEMENT OF THE NEXT LIFT, THIS AREA SHALL BE SCARIFIED, SPRINKLED WITH WATER AND THEN COMPACTED AND TESTED BEFORE PLACEMENT OF A SUBSEQUENT LIFT.

TRANSITION FROM FULL DEPTH ENGINEERED FILL TO THE BEGINNING OF AN ADJACENT NEW SECTION SHALL BE ACCOMPLISHED BY SLOPING (CUTTING BACK) THE END OF THE FULL-DEPTH SECTION AT THREE HORIZONTAL TO ONE VERTICAL (MAXIMUM) OR BENCHING (STAIR-STEPPING). DURING CONSTRUCTION, THE ENGINEERED FILL (USED FOR EMBANKMENT CONSTRUCTION) DRY DENSITY AND MOISTURE CONTENT SHALL BE MAINTAINED TO AT LEAST 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY AND AT A MOISTURE CONTENT OF AT LEAST -2.0% OF OPTIMUM. THE RECOMPACTED SOIL LINER (ON POND FLOOR AND BELOW GRADE SLOPES) SHALL BE CONSTRUCTION TO A MINIMUM 95% MAXIMUM DRY DENSITY AT WET OF OPTIMUM MOISTURE. PROCTOR TEST TO DETERMINE THE MAXIMUM DRY DENSITY AND OPTIMUM MOISTURE CONTENT WILL BE CONDUCTED PRIOR TO CONSTRUCTION IN THE BORROW AREAS AND WHEN SOILS CHANGE AS DIRECTED BY THE CERTIFYING ENGINEER.

TO CONFIRM THAT THE MOISTURE CONTENT AND DRY DENSITY REQUIREMENTS OF THE ENGINEERED FILL ARE BEING SATISFIED, NUCLEAR DENSITY TESTING WILL BE PERFORMED AT LOCATIONS DESIGNATED BY THE ENGINEER AND AT A MINIMUM FREQUENCY OF FIVE TEST PER LIFT PER ACRE. THESE TESTS WILL BE PERFORMED SUCH THAT A UNIFORM DISTRIBUTION IS MAINTAINED OVER EACH LIFT ENSURING THERE ARE NO LARGE UNTESTED AREAS. INSTALLED SOILS FAILING TO MEET PROJECT SPECIFICATIONS SHALL BE REWORKED, RECOMPACTED AND/OR REMOVED TO MEET PROJECT OBJECTIVES. NO ENGINEERED FILL SHALL BE PLACED OR COMPACTED DURING A PERIOD OF TEMPERATURES BELOW 30°F FOR 24 CONSECUTIVE HOURS OR MORE UNLESS APPROVED BY THE ENGINEER. ALL COLD WEATHER CONSTRUCTION PROCEDURES SHALL BE PRIOR APPROVED BY THE CERTIFYING ENGINEER.

DURING CONSTRUCTION, FINISHED LIFTS OR SECTIONS OF ENGINEERED FILL SHALL BE MAINTAINED TO PREVENT DRYING AND DESICCATION. AT THE END OF EACH CONSTRUCTION DAY'S ACTIVITIES, COMPLETED LIFTS OR SECTIONS OF ENGINEERED FILL MAY BE SEALED BY ROLLING WITH RUBBER-TIRED OR SMOOTH DRUM ROLLERS AND SPRINKLED WITH WATER AS NEEDED. THE SURFACE MUST BE PROPERLY SCARIFIED USING A PENETRATING FOOT COMPACTOR OR OTHER EQUIPMENT APPROVED BY THE ENGINEER PRIOR TO PLACEMENT OF ADDITIONAL LIFTS OF ENGINEERED FILL.

THE ENGINEERED FILL SHALL BE OF DESIGN THICKNESS ACROSS THE BOTTOM AND UP THE SIDE SLOPES OF THE POND. THE THICKNESS OF THE ENGINEERED FILL ON THE SIDE SLOPES SHALL BE MEASURED PERPENDICULAR TO THE SLOPE FACE. THE AS-BUILT THICKNESS OF THE ENGINEERED FILL SHALL BE DETERMINED BY NONDESTRUCTIVE SURVEY METHODS (AS-BUILT SURVEY) OR VISUAL INSPECTIONS OF LIFT PLACEMENT BY CQA PERSONNEL.

MATERIAL THAT IS TOO WET SHALL BE DRIED TO THE SPECIFIED MOISTURE CONTENT PRIOR TO PLACEMENT AND COMPACTION.

SUBBASE PROOF ROLLING

THE SUBBASE GRADE ON BOTH THE BOTTOM OF THE POND AND BELOW GRADE PORTIONS OF THE SIDESLOPES OF THE POND WHICH IS THE BOTTOM OF THE COMPACTED SOIL LINER, SHALL BE PROOFROLLED WITH A LOADED RUBBER TIED TRUCK OR SCRAPER MAKING REPETITIVE OFFSET PASSES OVER THE ENTIRE AREA. IF EXCESSIVE OR IRREGULAR DEFLECTION (IDENTIFIED AS IN EXCESS OF 3 INCHES) ARE OBSERVED THE DELINEATED AREA SHALL BE OVER EXCAVATED TO A MINIMUM OF 36 INCHES AND INSPECTED FOR SAND OR PERMEABLE SOILS. IF PRESENT, ANY SAND AND NON LOW PERMEABLE SOILS WILL BE OVEREXCAVATED AND REMOVED TO A VERTICAL AND HORIZONTAL DISTANCE OF 15 FEET FROM THE TOP OF THE FINAL FLOOR ELEVATION AND REPLACED WITH ENGINEERED FILL AS DIRECTED BY THE CERTIFYING ENGINEER. THE PROOF ROLLING SHALL BE INSPECTED AND DOCUMENTED BY THE CERTIFYING ENGINEER.

FENCING

FENCING THE POND AND PROVIDING FLOTATION DEVICES FOR PUBLIC SAFETY SHALL BE AT THE DISCRETION OF THE LANDOWNER. IF THERE IS A POSSIBILITY THAT SMALL CHILDREN WILL PLAY OR HAVE ACCESS TO THE POND, IT IS RECOMMENDED THAT THE POND BE FENCED. WHEN USED, WARNING SIGNS WITH A ROPE AND SAFETY FLOTATION DEVICES SHALL BE PLACED ON AT LEAST TWO SIDES OF AN UNFENCED POND. WHEN THE FACILITY IS FENCED, LOCATE THE PERMANENT FENCE SO THAT EASY ACCESS IS POSSIBLE FOR THE AGITATING AND PUMPING EQUIPMENT.

EXPLORATORY TRENCH

AT THE BEGINNING OF CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE A 48" DEEP FIELD TILE EXPLORATORY TRENCH 50 FEET OUTSIDE THE PROPOSED POND AS NOTED IN THE DRAWING. THE CONTRACTOR SHALL PERMANENTLY PLUG ALL ENCOUNTERED FIELD TILE SYSTEMS (IF DRAINING AWAY) AND/OR REROUTE THE ENCOUNTERED TILE SYSTEM IN A MANNER ACCEPTABLE TO THE OWNER. ALL TILES INSIDE OF THE 50' SETBACK SHALL BE COMPLETELY REMOVED. DOCUMENTATION WILL BE PROVIDED IN THE CERTIFICATION REPORT.

SITE PLAN LEGEND:

EXIST. PROPERTY BOUNDARY	---
EXIST. FENCE	—x—x—x—
EXIST. DITCH OR STREAM	~~~~~
EXIST. GRAVEL PAVEMENT	-----
EXIST. FORCE MAIN	—+—+—+—
EXIST. STORM SEWER	—x—x—x—
EXIST. CONTOURS	~~~~~
ODA SETBACKS	-----
PROP. EXPLORATORY TRENCH	---
SURVEY BENCH MARK	△
PROP. CONCRETE PAVEMENT	-----
EXIST. CONCRETE PAVEMENT	-----
EXIST. SOIL BORING LOCATION	SB-3
SOIL BORING LOCATION	POND #5

BST008-BLUE STREAM DAIRY (MENTZER ROAD SITE) PROPOSED POND #5 VOLUME

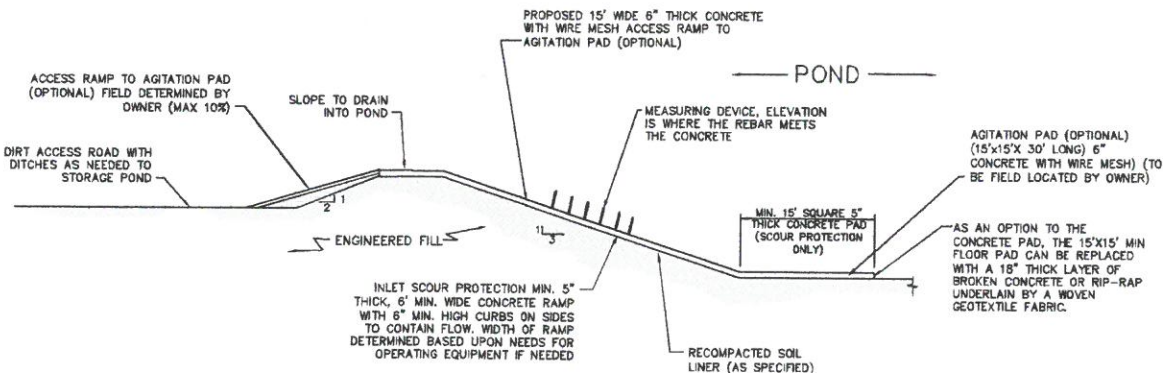
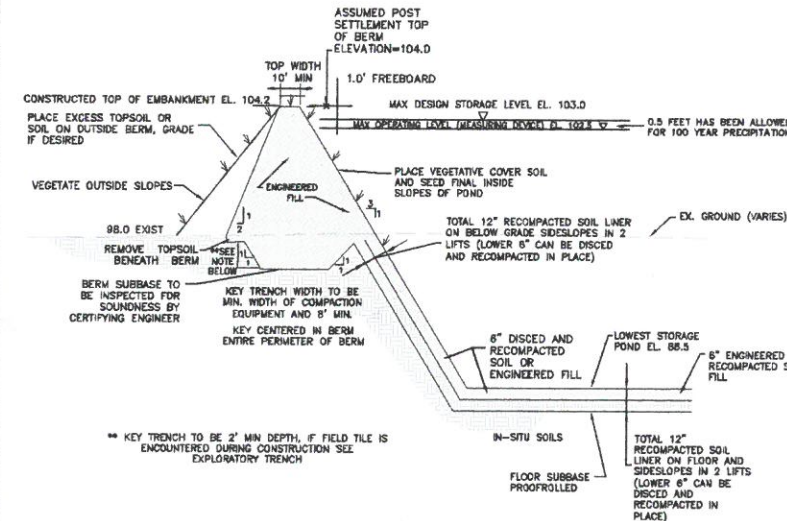
ELEVATION CONTOUR	CONTOUR AREA	AVERAGE AREA	HEIGHT BETWEEN	INCREMENTAL STORAGE VOLUME	CUMULATIVE FROM BOTTOM (CUBIC FEET)	CUMULATIVE FROM BOTTOM (GALLONS)
88.5	10864					
		11705	1.5	17557.5	17557.5	131,338.88
90	13046	14959.5	2	29919	47476.5	355,147.96
92	16873	18990.5	2	37861	85337.5	638,367.17
94	20888	23190	2	46380	131717.5	985,312.76
96	25392	27738	2	55476	187193.5	1,400,300.98
98	30084	32573.5	2	65147	252340.5	1,887,633.11
100	35063	37697	2	75394	327734.5	2,451,617.93
102	40831	41012	0.5	20506	348240.5	2,605,013.06
102.5	41693	43789.5	1.5	65684.25	413924.75	3,096,364.09
104	45886					

MDL

MENTZER ROAD PROPOSED MANURE STORAGE POND #5 SITE PLAN

SCALE: 1"=60'

PROPOSED EARTHEN MANURE POND #5
TOP OF BERM ELEV=104.0
MOL ELEV=102.5
VOLUME AT MOL=2,605,013 GALLONS
FLOOR ELEV=88.5



INLET SCOUR PROTECTION SECTION (TYP.)
SCALE: NOT TO SCALE

MENTZER ROAD PROPOSED MANURE STORAGE POND #5 DETAIL

NUMBER	DATE	MADE BY	CHECKED BY	REVISIONS	DESCRIPTION
1	7/3/14	PAN	DAG	REDIRECTED SURFACE WATER AROUND POND 5, CHANGED POND CALLOUT	
2	8/22/14	LMB	DAG	UPDATED BASEMAP	

DATE:	4-30-14
PREPARED BY:	DAG
DRAWN BY:	PAN
CHECKED BY:	DAG
FILE:	BST008-04

NORTH POINT ENGINEERING
6657 Frank Ave. N.W.
Suite 200
North Canton, Ohio 44720
330 - 494 - 8888
Fax 330 - 494 - 8889

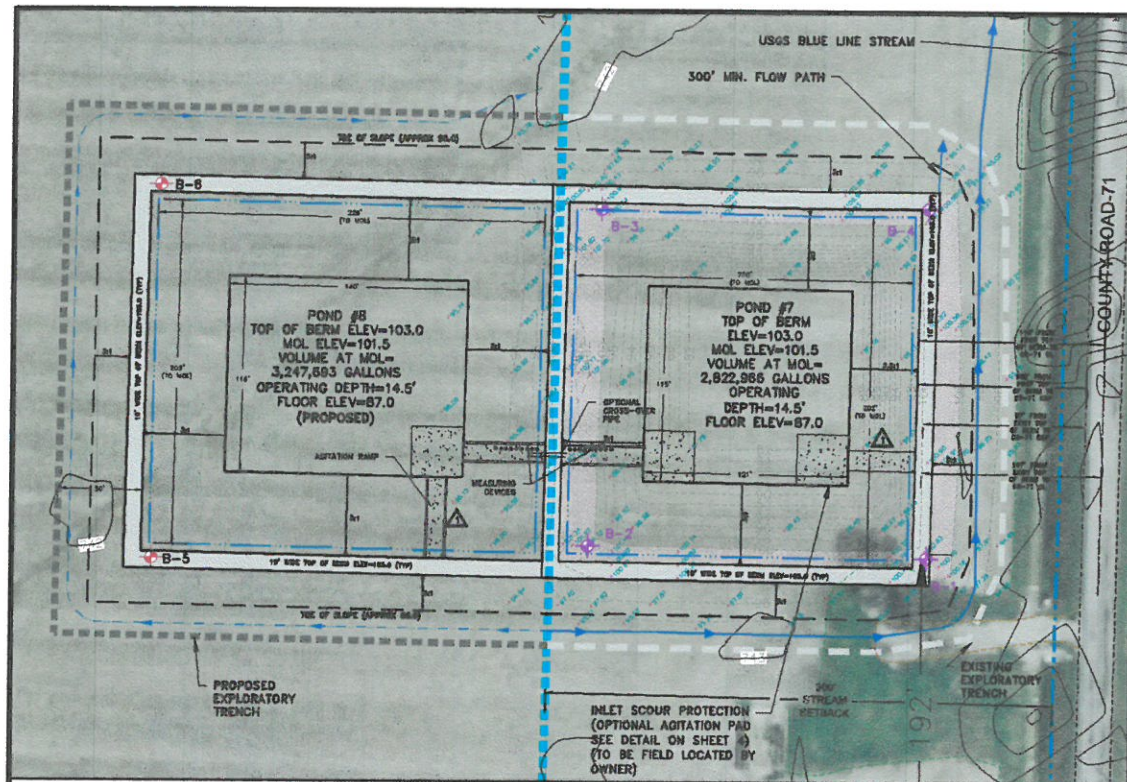
REG. PROF. ENG. DAVID A. GERDEMAN, P.E. LICENSE NO. E-48688

BLUE STREAM DAIRY, INC.

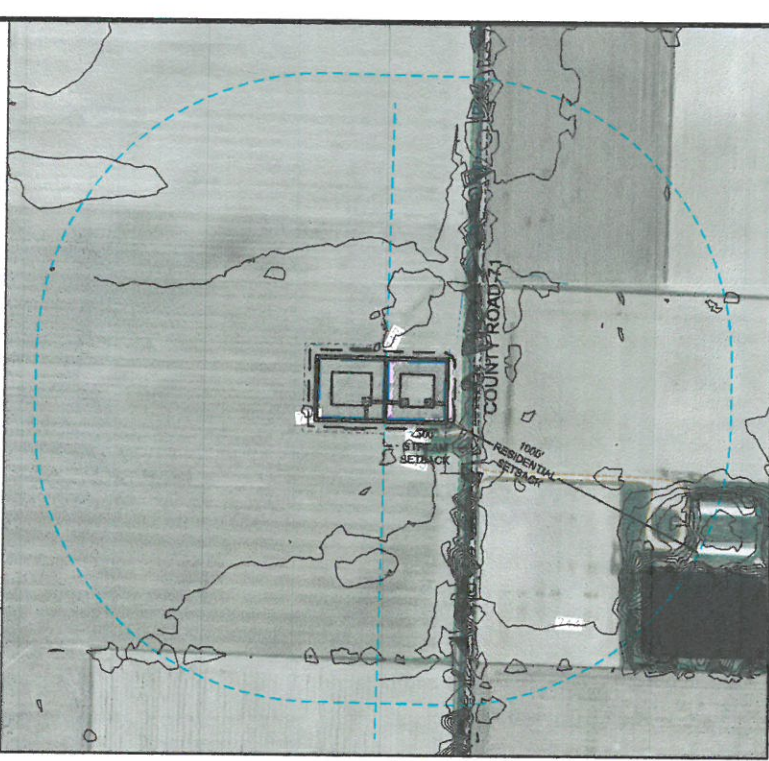
BLUE STREAM DAIRY EXPANSION

MANURE STORAGE POND PLAN AND DETAILS

TULLY TOWNSHIP, VAN WERT COUNTY, OHIO



- SITE PLAN LEGEND:**
- EXIST. PROPERTY BOUNDARY
 - USGS BLUE LINE STREAM
 - PROP. DRAINAGE DITCH
 - PROP. GRADIENT BARRIER
 - EXIST. GRAVEL PAVEMENT
 - EXIST. CULTIVATED FIELD
 - EXIST. EXPLORATORY TRENCH
 - PROP. EXPLORATORY TRENCH
 - ODA SETBACKS
 - EXIST. CONTOURS LIDAR
 - OSP 1 POINT DATA
 - EXIST. SPOT ELEVATION
 - EXIST. SOIL BORING LOCATION
 - PROP. SOIL BORING LOCATION
 - PROP. CONCRETE PAVEMENT
 - EXIST. CONCRETE PAVEMENT
 - EXIST. TOP OF BERM

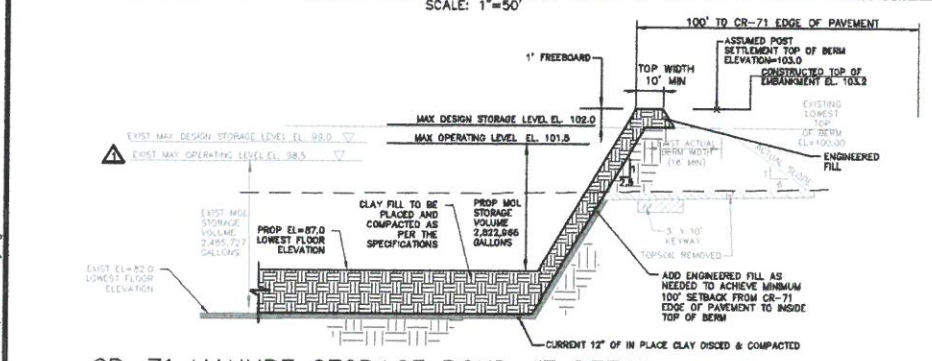


MANURE STORAGE POND DESIGN NOTES AND CONSTRUCTION SPECIFICATIONS

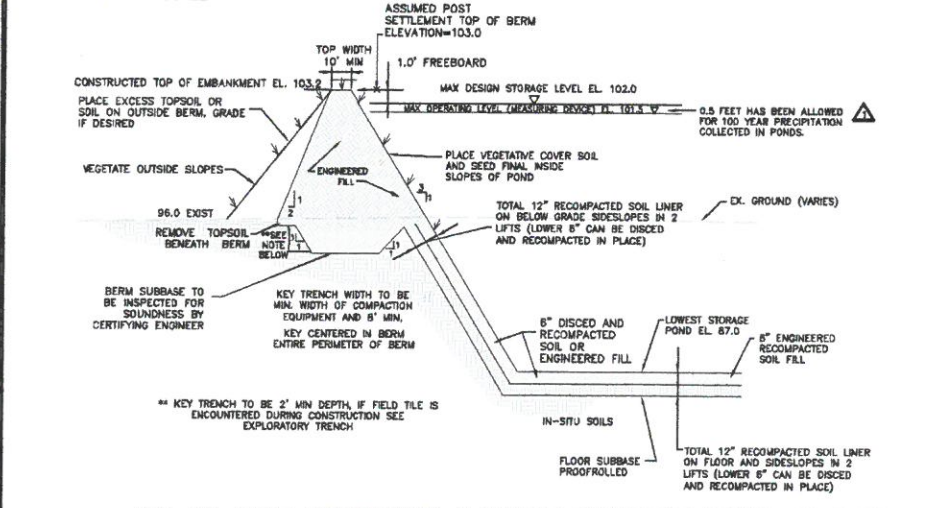
MEASURING DEVICE
FOR EACH PROPOSED STORAGE POND, THE OWNER WILL INSTALL ONE LEVEL MEASURING DEVICE. THE MEASURING DEVICE WILL BE A 12" HIGH 5/8" MIN. DIAMETER REBAR ANCHORED INTO THE CONCRETE RAMP PORTION OF THE INLET SCOUR PROTECTION AS NOTED IN THE PLANS. A SEPARATE ROD WILL BE SET FOR EACH ELEVATION STARTING AT THE MAXIMUM OPERATING ELEVATION OF 101.5 AND EVERY EVEN ONE FOOT INCREMENT BELOW THAT DOWN TO AT LEAST HALF WAY TO THE POND FLOOR. THE ACTUAL FINAL ELEVATIONS TO BE USED WILL BE DETERMINED AT COMPLETION OF CONSTRUCTION BASED UPON REVIEW OF AS-BUILT DRAWINGS BY CERTIFYING ENGINEER.

ENGINEERED SOIL FILL CONSTRUCTION
ENGINEERED FILL SHALL CONSIST OF ON-SITE EXCAVATED COHESIVE, SOIL MATERIALS.
AREAS TO RECEIVE FILL SHALL BE STRIPPED TO REMOVE ALL VEGETATION, TOPSOIL AND OTHER UNSUITABLE MATERIALS PRIOR TO THE PLACEMENT OF FILL MATERIALS.
ENGINEERED FILL SHALL BE PRE-QUALIFIED BY THE CERTIFYING ENGINEER. THE CONTRACTOR SHALL ONLY USE PRE-QUALIFIED SOILS DESIGNATED BY THE OWNER.
ENGINEERED FILL SHALL BE FREE OF FOREIGN MATERIALS, REFUSE, ROOTS OR OTHER DELETERIOUS SUBSTANCES.
ENGINEERED LOOSE LIFT THICKNESS SHALL BE NO GREATER THAN 12 INCHES PRIOR TO COMPACTION. THINNER LIFTS ARE PERMISSIBLE TO ACHIEVE DESIGN GRADES.
PRIOR TO COMPACTION, EACH LIFT OF ENGINEERED FILL MATERIAL SHALL BE WORKED TO REDUCE CLOO SIZES TO GENERALLY LESS THAN 3 INCHES.
COMPACTION OF LIFTS SHALL BE PERFORMED WITH AN APPROPRIATELY HEAVY, PROPERLY BALLASTED, PENETRATING-FOOT COMPACTOR SUBJECT TO APPROVAL OF THE OWNER.
THE DAILY WORK AREA SHALL EXTEND A DISTANCE NO GREATER THAN NECESSARY TO MAINTAIN MOIST SOIL CONDITIONS (FACILITATE BONDING) AND CONTINUOUS OPERATIONS. DESICCATION AND CRUSTING OF LIFT SURFACE SHALL BE AVOIDED AS MUCH AS POSSIBLE.
IF DESICCATION AND CRUSTING OF THE LIFT SURFACE OCCURS BEFORE PLACEMENT OF THE NEXT LIFT, THIS AREA SHALL BE SCARIFIED, SPRINKLED WITH WATER AND THEN COMPACTION AND TESTED BEFORE PLACEMENT OF A SUBSEQUENT LIFT.
TRANSITION FROM FULL DEPTH ENGINEERED FILL TO THE BEGINNING OF AN ADJACENT NEW SECTION SHALL BE ACCOMPLISHED BY CUTTING BACK THE END OF THE FULL-DEPTH SECTION AT THREE HORIZONTAL TO ONE VERTICAL (MAXIMUM) OR BENCHING (STAIR-STEPPING).
DURING CONSTRUCTION, THE ENGINEERED FILL (USED FOR EMBANKMENT CONSTRUCTION) DRY DENSITY AND MOISTURE CONTENT SHALL BE MAINTAINED TO AT LEAST 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY AND AT A MOISTURE CONTENT OF AT LEAST -2.0% OF OPTIMUM. THE RECOMPACTED SOIL LAYER (ON POND FLOOR AND BELOW GRADE SLOPES) SHALL BE CONSTRUCTION TO A MINIMUM 95% MAXIMUM DRY DENSITY AT NET OF OPTIMUM MOISTURE. PROCTOR TEST TO DETERMINE THE MAXIMUM DRY DENSITY AND OPTIMUM MOISTURE CONTENTED PRIOR TO CONSTRUCTION IN THE BORROW AREAS AND WHEN SOILS CHANGE AS DIRECTED BY THE CERTIFYING ENGINEER.
TO CONFIRM THAT THE MOISTURE CONTENT AND DRY DENSITY REQUIREMENTS OF THE ENGINEERED FILL ARE BEING SATISFIED, NUCLEAR DENSITY TESTING WILL BE PERFORMED AT LOCATIONS DESIGNATED BY THE ENGINEER AND AT A MINIMUM FREQUENCY OF FIVE TEST PER LIFT PER ACRE. THESE TESTS WILL BE PERFORMED SUCH THAT A UNIFORM DISTRIBUTION IS MAINTAINED OVER EACH LIFT ENSURING THERE ARE NO LARGE UNTESTED AREAS. INSTALLED SOILS FAILING TO MEET PROCTOR SPECIFICATIONS SHALL BE REWORKED, RECOMPACTED AND/OR REMOVED TO MEET PROJECT OBJECTIVES.
NO ENGINEERED FILL SHALL BE PLACED OR COMPACTION DURING A PERIOD OF TEMPERATURES BELOW 30°F FOR 24 CONSECUTIVE HOURS OR MORE UNLESS APPROVED BY THE ENGINEER. ALL COLD WEATHER CONSTRUCTION PROCEDURES SHALL BE PRIOR APPROVED BY THE CERTIFYING ENGINEER.
DURING CONSTRUCTION, FINISHED LIFTS OR SECTIONS OF ENGINEERED FILL SHALL BE MAINTAINED TO PREVENT DRYING AND DESICCATION.
AT THE END OF EACH CONSTRUCTION DAY'S ACTIVITIES, COMPLETED LIFTS OR SECTIONS OF ENGINEERED FILL MAY BE SEALED BY ROLLING WITH RUBBER-TIRED OR SMOOTH DRUM ROLLERS AND SPRINKLED WITH WATER AS NEEDED. THE SURFACE MUST BE PROPERLY SCARIFIED USING A PENETRATING FOOT COMPACTOR OR OTHER EQUIPMENT APPROVED BY THE ENGINEER PRIOR TO PLACEMENT OF ADDITIONAL LIFTS OF ENGINEERED FILL.
THE ENGINEERED FILL SHALL BE OF DESIGN THICKNESS ACROSS THE BOTTOM AND UP THE SIDE SLOPES OF THE POND. THE THICKNESS OF THE ENGINEERED FILL ON THE SIDE SLOPES SHALL BE MEASURED PERPENDICULAR TO THE SLOPE FACE. THE AS-BUILT THICKNESS OF THE ENGINEERED FILL SHALL BE DETERMINED BY NONDESTRUCTIVE SURVEY METHODS (AS-BUILT SURVEY) OR VISUAL INSPECTIONS OF LIFT PLACEMENT BY O&A PERSONNEL.
MATERIAL THAT IS TOO WET SHALL BE DRIED TO THE SPECIFIED MOISTURE CONTENT PRIOR TO PLACEMENT AND COMPACTION.
SUBBASE PROOF ROLLING
THE SUBBASE GRADE ON BOTH THE BOTTOM OF THE POND AND BELOW GRADE PORTIONS OF THE SIDESLOPES OF THE POND WHICH IS THE BOTTOM OF THE COMPACTED SOIL LAYER, SHALL BE PROOFROLLED WITH A LOADED RUBBER TIED TRUCK OR SCRAPER MAKING REPETITIVE OFFSET PASSES OVER THE ENTIRE AREA. IF EXCESSIVE OR IRREGULAR DEFLECTION (IDENTIFIED AS IN EXCESS OF 3 INCHES) AND PUMPING ARE OBSERVED THE DELINEATED AREA SHALL BE OVER EXCAVATED TO A MINIMUM OF 36 INCHES AND INSPECTED FOR SAND OR PERMEABLE SOILS. IF PRESENT, ANY SAND AND NON LOW PERMEABLE SOILS WILL BE OVEREXCAVATED AND REMOVED TO A VERTICAL AND HORIZONTAL DISTANCE OF 15 FEET FROM THE TOP OF THE FINAL FLOOR ELEVATION AND REPLACED WITH ENGINEERED FILL AS DIRECTED BY THE CERTIFYING ENGINEER. THE PROOF ROLLING SHALL BE INSPECTED AND DOCUMENTED BY THE CERTIFYING ENGINEER.
FENCING
FENCING THE POND AND PROVIDING FLATOTATION DEVICES FOR PUBLIC SAFETY SHALL BE AT THE DISCRETION OF THE LANDOWNER. IF THERE IS A POSSIBILITY THAT CHILDREN WILL PLAY OR HAVE ACCESS TO THE POND, IT IS RECOMMENDED THAT THE POND BE FENCED. WHEN USED, WARNING SIGNS WITH A ROPE AND SAFETY FLATOTATION DEVICES SHALL BE PLACED ON AT LEAST TWO SIDES OF AN UNFENCED POND. WHEN THE FACILITY IS FENCED, LOCATE THE PERMANENT FENCE SO THAT EASY ACCESS IS POSSIBLE FOR THE AGITATING AND PUMPING EQUIPMENT.
EXPLORATORY TRENCH
AT THE BEGINNING OF CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE A 48" DEEP FIELD TLE EXPLORATORY TRENCH 50 FEET OUTSIDE THE PROPOSED POND AS NOTED IN THE DRAWING. THE CONTRACTOR SHALL PERMANENTLY PLUG ALL ENCOUNTERED FIELD TILE SYSTEMS (IF DRAINING AWAY) AND/OR REROUTE THE ENCOUNTERED TILE SYSTEM IN A MANNER ACCEPTABLE TO THE OWNER. ALL TILES INSIDE OF THE 50' SETBACK SHALL BE COMPLETELY REMOVED. DOCUMENTATION WILL BE PROVIDED IN THE CERTIFICATION REPORT.
SCOUR PROTECTION
INLET SCOUR PROTECTION WILL BE CONSTRUCTED TO PREVENT EROSION OF THE SLOPES AND THE FLOOR AND WILL BE FIELD DETERMINED BY THE OWNER AT TIME OF CONSTRUCTION.

CR-71 REVISED EXISTING AND PROPOSED MANURE POND SITE PLAN
SCALE: 1"=50'



CR-71 MANURE STORAGE POND #7 DETAIL
NOT TO SCALE



CR-71 SITE PROPOSED MANURE STORAGE POND #8 DETAIL
NOT TO SCALE

EXISTING BLUE STREAM DAIRY (CR-71 POND #6 POND VOLUME)

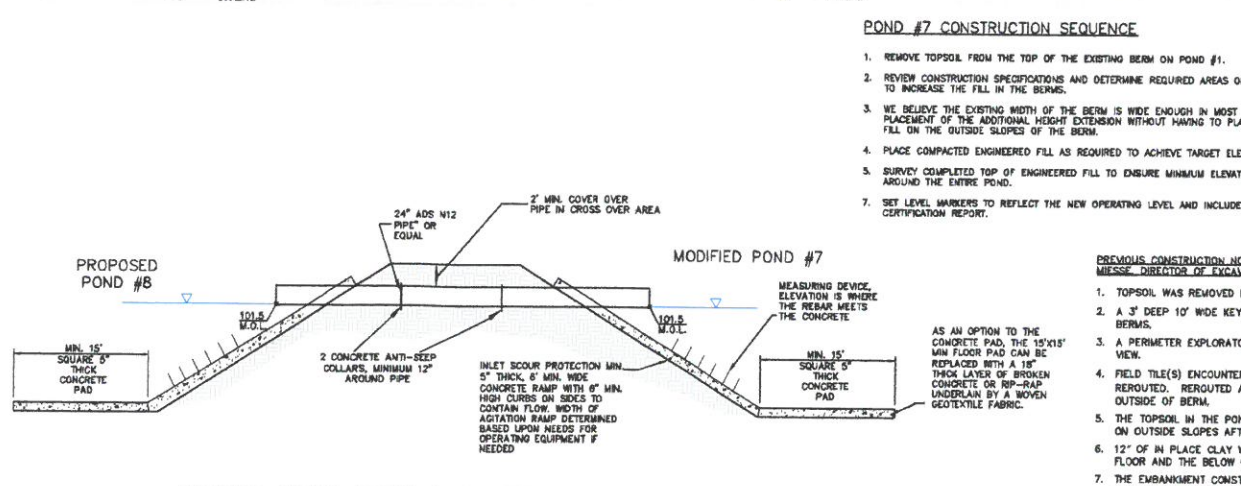
ELEVATION	CONTOUR	AREA	AVERAGE	HEIGHT	INCREMENTAL	CUMULATIVE	CUMULATIVE FROM
					VOLUME	FROM BOTTOM	(GALLONS)
87	16253.87	17040.38	1	17040.38	17040.38	127,470.56	
88	17826.99	19508.05	2	39016.1	56056.48	48,933.05	
90	21188.21	23014.33	2	46028.66	102085.14	763,647.89	
92	24838.46	26808.565	2	53617.13	155702.27	1,164,730.83	
94	28777.68	30890.795	2	61781.59	217483.86	1,626,888.01	
96	33003.91	35261.025	2	70522.05	288005.91	2,154,428.21	
98	37518.14	39919.285	2	79638.51	367644.42	2,751,660.18	
100	42320.37	43574.93	1	43574.93	411419.35	3,077,622.45	
101	44823.49	45470.265	0.5	22735.1325	434154.4825	3,247,892.41	
102	47416.60	46760.92	0.5	23390.41	457534.8925	3,422,589.76	
103	50063.71	48737.155	1	48737.155	506272.0475	3,787,168.05	

NEW MOL = 102.5

EXISTING BLUE STREAM DAIRY (MODIFIED POND #7 POND VOLUME)

ELEVATION	CONTOUR	AREA	AVERAGE	HEIGHT	INCREMENTAL	CUMULATIVE	CUMULATIVE FROM
					VOLUME	FROM BOTTOM	(GALLONS)
87	13652.92	14547.695	1	14547.695	14547.695	108,534.03	
88	15242.47	16731.31	2	33462.62	48010.315	359,141.16	
90	18220.15	19841.37	2	39682.74	87693.055	655,387.90	
92	21462.59	23216.19	2	46492.38	134125.405	1,008,325.32	
94	24969.79	26895.77	2	53711.54	187936.975	1,406,114.49	
96	28741.75	30760.11	2	61520.22	249457.195	1,866,316.50	
98	32778.47	34829.105	2	69585.21	319015.405	2,387,890.84	
100	37079.74	38006.83	1	38006.83	357422.235	2,673,697.03	
101	39333.92	39909.48	0.5	19954.415	377376.65	2,822,866.03	
102	41860.1	41066.92	0.5	20533.46	397910.11	2,976,566.58	
103	44032.42	42841.26	1	42841.26	440751.37	3,237,040.62	

NEW MOL = 101.5



CROSS OVER PIPE & INLET SCOUR PROTECTION SECTION
NOT TO SCALE

POND #7 CONSTRUCTION SEQUENCE

1. REMOVE TOPSOIL FROM THE TOP OF THE EXISTING BERM ON POND #1.
 2. REVIEW CONSTRUCTION SPECIFICATIONS AND DETERMINE REQUIRED AREAS OF FILL PLACEMENT TO INCREASE THE FILL IN THE BERMS.
 3. WE BELIEVE THE EXISTING WIDTH OF THE BERM IS WIDE ENOUGH IN MOST PLACES TO ALLOW PLACEMENT OF THE ADDITIONAL HEIGHT EXTENSION WITHOUT HAVING TO PLACE ANY ADDITIONAL FILL ON THE OUTSIDE SLOPES OF THE BERM.
 4. PLACE COMPACTED ENGINEERED FILL AS REQUIRED TO ACHIEVE TARGET ELEVATIONS.
 5. SURVEY COMPLETED TOP OF ENGINEERED FILL TO ENSURE MINIMUM ELEVATION IS ACHIEVED AROUND THE ENTIRE POND.
 6. SET LEVEL MARKERS TO REFLECT THE NEW OPERATING LEVEL AND INCLUDE IN FINAL CERTIFICATION REPORT.
- PREVIOUS CONSTRUCTION NOTES AS DOCUMENTED BY AARON MESSE, DIRECTOR OF EXCAVATION, OF EXCAVATIONS, LLC:**
1. TOPSOIL WAS REMOVED FROM BENEATH BERMS.
 2. A 3" DEEP 10' WIDE KEYWAY WAS CONSTRUCTED BELOW BERMS.
 3. A PERIMETER EXPLORATORY TRENCH WAS DUG, SEE PLAN VIEW.
 4. FIELD TILES ENCOUNTERED DURING CONSTRUCTION WERE REROUTED (REROUTED AN 8" OUTLET WITH SOLID TILE 50' OUTSIDE OF BERM).
 5. THE TOPSOIL IN THE POND AREA WAS REMOVED AND PLACED ON OUTSIDE SLOPES AFTER CONSTRUCTION.
 6. 12" OF IN PLACE CLAY WAS DISCED AND COMPACTIONED ON THE FLOOR AND THE BELOW GRADE SIDE SLOPE.
 7. THE EMBANKMENT CONSTRUCTION INCLUDED PROOFROLLING AND 8" LIFTS WERE PLACED. COMPACTION EQUIPMENT WAS A SAKAI 64" VIBRATORY PAD FOOT, MINIMUM OF 4 PASSES, NO NUCLEAR DENSITY TESTING WAS PERFORMED.

Certification Statement

During the last two weeks of March 2013, David Gerde, Environmental Manager for Blue Stream Dairy and Jon Anderson, Blue Stream Dairy Agricultural Manager observed VTP Remediation, LLC perform the construction of the manure pit located on the north side of TWP 124 in Paulding Township and the pit located on the west side of CR 71 in Blue Creek Township. The procedures, equipment used and work tools at both manure pits (proof rolling, repoint placement, heavy construction, soil fill thicknesses, compaction, soil test results, etc.) described in the MOC application are accurate and were observed independently by David Gerde and Jon Anderson. We the undersigned do certify and attest that the construction details as presented in the MOC application are accurate and true.

Signature: *David Gerde - Environmental Manager* Date: *3/24/2013*
Jon Anderson - Agricultural Manager Date: *3-24-13*

BLUE STREAM DAIRY, INC.
BLUE STREAM DAIRY EXPANSION
CR-71 MANURE PONDS #7 & #8
PLAN & DETAILS
BLUE CREEK TOWNSHIP, PAULDING COUNTY, OHIO

REVISIONS

NUMBER	DATE	MADE BY	CHECKED BY	DESCRIPTION
1	7/3/14	PAN	DAG	SCOUR PROTECTION RAMPS MOVED, AGITATING RAMP ADDED, POND COLLECTION AREA DOES NOT INCLUDE POND 7 AND 8

DATE: 5-8-14
 PREPARED BY: PAN
 DRAWN BY: PAN
 CHECKED BY: JR
 FILE: BST008-06

NORTH POINT ENGINEERING
 6657 Frank Ave. N.W.
 Suite 200
 North Canton, Ohio 44720
 330 - 494 - 8888
 Fax 330 - 494 - 8889

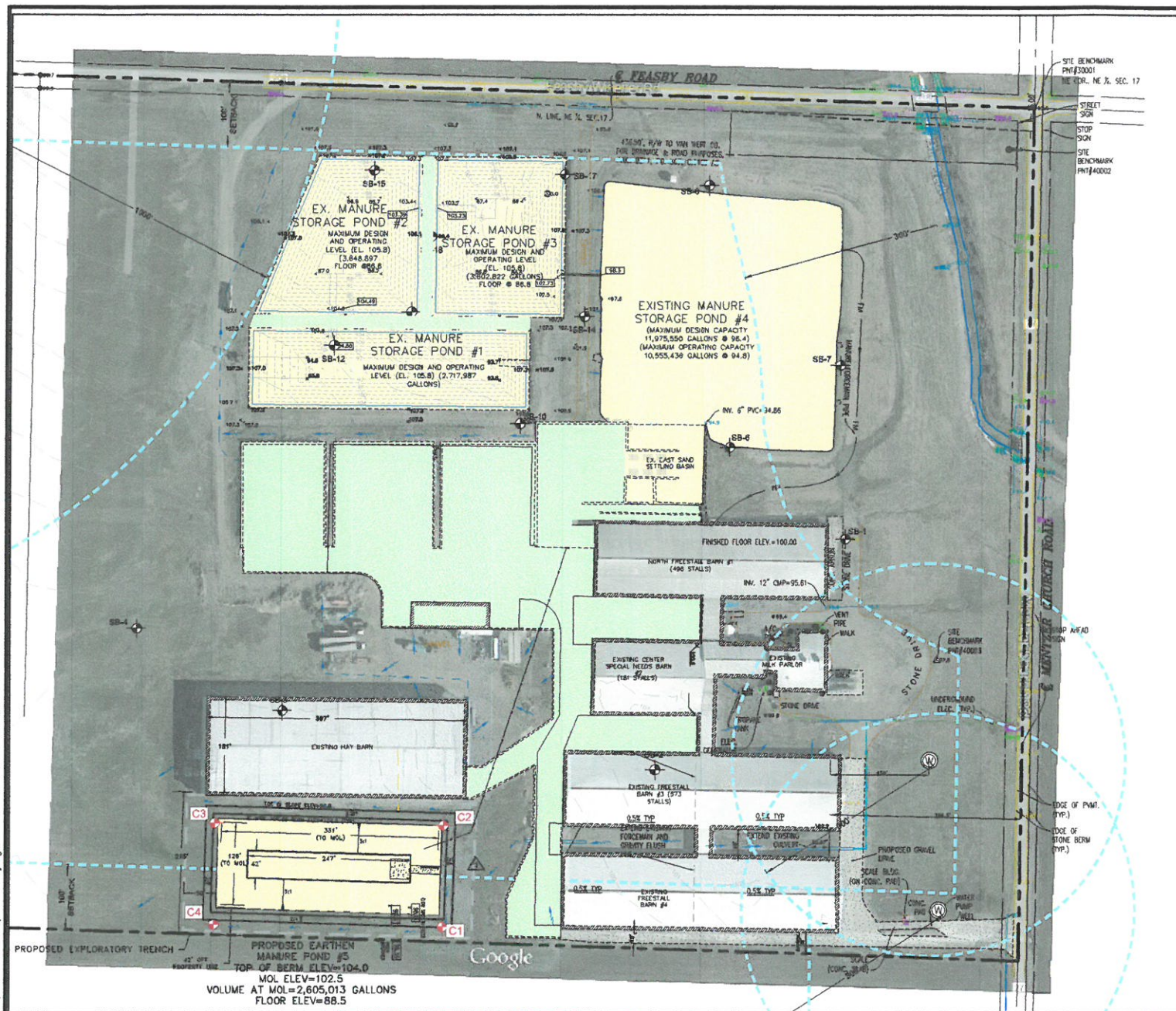
REG. PROF. ENG. DAVID A. GERDEMAN, P.E. LICENSE NO. E-48568

DATE

DATE

J:\BST008-CR 71 Pond.dwg 8-22-14 REVISED CONSTRUCTION PLANS\BST008-06_CR71.dwg - Aug 22, 2014 - 2:19pm - llyington

J:\BSTD08-CR 71 Pond.dwg (8-22-14 REVISED CONSTRUCTION PLANS) BSTD08-08.dwg - Aug 22, 2014 - 3:52pm - lbyington

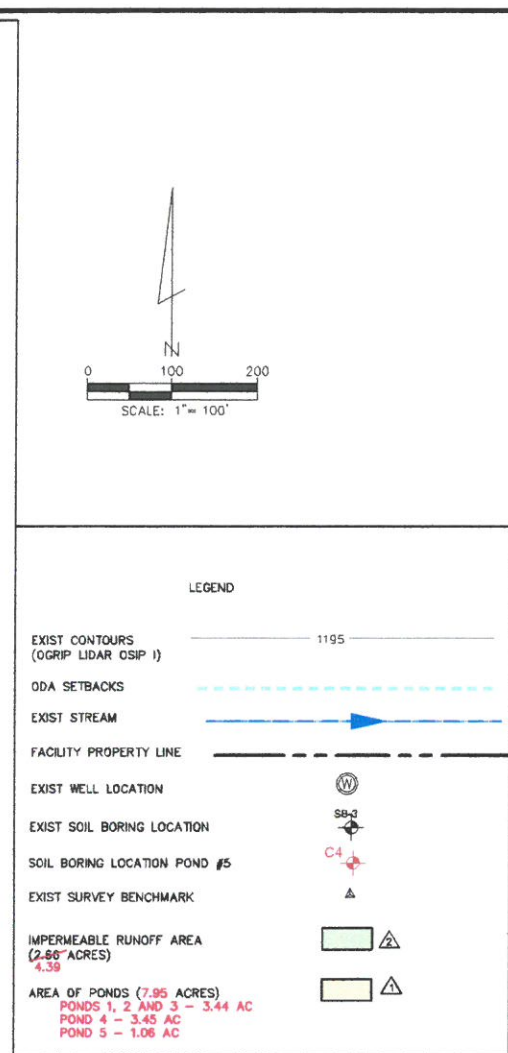


AREAS UPDATED BASED ON CURRENT AERIAL IMAGE

POND #1 VOLUME (STAGE 1 AS-BUILT)						
FIELD DESIGNATION	ELEVATION CONTOUR	CONTOUR AREA	AVERAGE AREA	HEIGHT BETWEEN	INCREMENTAL STORAGE VOLUME	CUMULATIVE FROM BOTTOM (GALLONS)
92.5	92.5	10438	0.2	2088	2088	15,816
93	11514.10	12590	1	12590	12590	109,707
94	13655.50	14649	1	14649	29677	230,259
95	15800.30	17217	1	17217	46894	347,040
96	18000.30	19892	1	19892	66786	483,826
97	20093.50	22276	1	22276	89062	672,888
98	22597.20	24867	1	24867	113929	886,817
99	25366.70	27768	1	27768	141697	1,028,514
100	29186.10	30874	1	30874	172571	1,201,085
101	32181.60	34099	1	34099	206670	1,407,755
102	35187.00	36813	1	36813	243483	1,651,238
103	38426.40	40044	1	40044	283527	1,934,765
104	41869.50	43880	1.3	57146	338812	2,273,577
105.3	46360.10	47110	0.5	29555	368367	2,641,944
106.8	47660.80					
108.8	47660.80					

POND #2 VOLUME (STAGE 1 AS-BUILT)						
FIELD DESIGNATION	ELEVATION CONTOUR	CONTOUR AREA	AVERAGE AREA	HEIGHT BETWEEN	INCREMENTAL STORAGE VOLUME	CUMULATIVE FROM BOTTOM (GALLONS)
92.5	92.5	10438	0.2	2088	2088	15,816
93	11514.10	12590	1	12590	12590	109,707
94	13655.50	14649	1	14649	29677	230,259
95	15800.30	17217	1	17217	46894	347,040
96	18000.30	19892	1	19892	66786	483,826
97	20093.50	22276	1	22276	89062	672,888
98	22597.20	24867	1	24867	113929	886,817
99	25366.70	27768	1	27768	141697	1,028,514
100	29186.10	30874	1	30874	172571	1,201,085
101	32181.60	34099	1	34099	206670	1,407,755
102	35187.00	36813	1	36813	243483	1,651,238
103	38426.40	40044	1	40044	283527	1,934,765
104	41869.50	43880	1.3	57146	338812	2,273,577
105.3	46360.10	47110	0.5	29555	368367	2,641,944
106.8	47660.80					
108.8	47660.80					

POND #3 VOLUME (STAGE 1 AS-BUILT)						
FIELD DESIGNATION	ELEVATION CONTOUR	CONTOUR AREA	AVERAGE AREA	HEIGHT BETWEEN	INCREMENTAL STORAGE VOLUME	CUMULATIVE FROM BOTTOM (GALLONS)
92.5	92.5	10438	0.2	2088	2088	15,816
93	11514.10	12590	1	12590	12590	109,707
94	13655.50	14649	1	14649	29677	230,259
95	15800.30	17217	1	17217	46894	347,040
96	18000.30	19892	1	19892	66786	483,826
97	20093.50	22276	1	22276	89062	672,888
98	22597.20	24867	1	24867	113929	886,817
99	25366.70	27768	1	27768	141697	1,028,514
100	29186.10	30874	1	30874	172571	1,201,085
101	32181.60	34099	1	34099	206670	1,407,755
102	35187.00	36813	1	36813	243483	1,651,238
103	38426.40	40044	1	40044	283527	1,934,765
104	41869.50	43880	1.3	57146	338812	2,273,577
105.3	46360.10	47110	0.5	29555	368367	2,641,944
106.8	47660.80					
108.8	47660.80					



Bluestream Dairy Expansion Manure Volumes 5/5/2014 (revised 8-22-14)									
1. Daily Operations									
a. Manure	Cow Type	Gall/day/cow	x No. of Cows	x Storage Period (days)	=	Gals	To Storage Pond		
	Dry	8.6	365	365	=	11,803,350	941,700	(gals)	11,803,350
	Lactating	18.7	1700	365	=	4,840,000		(gals)	
b. Bedding	Density	Sand = 101 lb/cu ft	x No. of Cows	x Storage Period (days)	=	Total Bedding			
	Bedding (lb/cu ft)	40	2000	365	=	29,200,000		(lb)	
					=	286,275		(gals)	
					=	2,141,333		(gals)	
					=	107,067		(gals)	107,067
c. Wash water	Gall/day/cow	x No. of Cows	x Storage Period (days)	=	Gals				
	8	2000	365	=	5,840,000		(gals)		5,840,000
Total Manure Volume (includes manure, bedding and wash water)							SUBTOTAL	(gals)	18,492,117
2. Normal Precipitation									
a. Average precipitation less evaporation on the storage pond and settling basin									
See table below and pond cross section									
Month	Precipitation (in)	Evaporation (in)	30 yr avg net (in)						
January	2.40	3.70	1.30						
February	2.10	0.80	1.30						
March	2.90	1.60	1.30						
April	3.50	2.80	0.70						
May	3.90	4.30	-0.40						
June	3.90	5.10	-1.20						
July	3.60	5.10	-1.50						
August	2.80	4.50	-1.70						
September	2.80	3.22	-0.42						
October	2.60	2.27	0.33						
November	2.70	1.16	1.54						
December	2.30	0.88	1.42						
Totals	36.60	32.23	3.27						
	Collection area						7.95	acres (all ponds and settling basin) (shown in green)	
	Total Area						7.95		
	Net collected						94,367	R ² SUBTOTAL	705,867
b. Normal runoff from facility into ponds									
	Total annual average precipitation						35.50	inches	
	Runoff areas are all impermeable surfaces						4.39	acres (shown in GREEN on the sheet)	
	Runoff factor at 52% of precipitation						18.46	inches (AWMFH Figure 10C-2)	
	Total runoff						294,173	R ² SUBTOTAL	2,200,414
3. 100 Year Precipitation									
a. 100-year 24-hour precipitation on ponds 1, 2, 3 and 4 and settling basin									
	100-year 24-hour storm						5.4	inches	
	Ponds 1, 2, 3 and 4 and Settling Basin						6.99	acres	
	Collected precipitation						136,068	R ² SUBTOTAL	1,010,232
b. Runoff 100-year 24-hour storm from facility into settling basin and pond #4									
	100-year 24-hour storm rainfall						5.4	inches	
	Runoff areas						4.39	acres	
	Runoff Curve Number						98		
	Runoff						5.16	inches from TR-55 Fig 2.1	
	Total runoff						82,228	R ² SUBTOTAL	615,067
4. Silage Leachate Seepage									
a. Leachate seepage									
	Seepage						1.0	cubic feet per ton of stored silage	
	Silage storage per acre						21500	tons per silage acre	
	Silage storage area						1.47	acres (actual storage area)	
	Silage Leachate Seepage Volume						31,605	R ² SUBTOTAL	236,405
5. Residual Solids									
a. Residual solids									
	Depth allowed for residual solids storage						12	inches	
	Floor area of pond						2.72	acres (all ponds)	
	Total volume						96,288	R ² SUBTOTAL	720,082
ANNUAL VOLUME FOR 365 DAYS (excludes 100 year storm and residual solids)									
								(gals)	21,634,804
6. Operating Level in Pond #4 and settling Basin									
100 year rain event will be spread over manure pond #4 and basin									
	Rainfall and Run-off from 100 Year 24 Hour Storm						217.266	inches (Sections 3a and 3b)	
	Area of Pond #4 and basin @ avg design and operating Level						3.05	acres (existing pond and basin)	
	Depth needed to store 100 year rainfall and runoff						1.636	ft (difference between design and operating levels for pond #1)	
7. Daily Generation Volume									
	Annual Manure Generation						21,634,804	gal	
	Manure generation per day						59,273	gal/day	
8. Total Days Liquid Manure Storage Provided									
	Existing East Sand Settling Basin						300,000	gal half capacity at max operating level	
	Storage days						5	days	
	Existing Manure Pond #1 at MOL						2,117,987	gal at max operating level	
	Storage days						46	days	
	Existing Manure Pond #2 at MOL						3,648,897	gal at max operating level (105.3)	
	Storage days						82	days	
	Existing Manure Pond #3 at MOL						3,602,822	gal at max operating level	
	Storage days						61	days	
	Existing Manure Pond #4 at MOL						10,555,436	gal at max operating level	
	Storage days						178	days	
	Existing Manure Pond #5 at MOL						2,605,013	gal at max operating level	
	Storage days						44	days	
	Proposed Manure Pond #6 at MOL						2,217,987	gal at max operating level	
	Storage days						37	days	
	Proposed Manure Pond #7 at MOL						2,822,966	gal at max operating level	
	Storage days						48	days	
	Proposed Manure Pond #8 at MOL						3,247,093	gal at max operating level	
	Storage days						55	days	
LIDAR Manure Pond #4 VOLUME									
FIELD DESIGNATION	ELEVATION CONTOUR	CONTOUR AREA	AVERAGE AREA	HEIGHT BETWEEN	INCREMENTAL STORAGE VOLUME	CUMULATIVE FROM BOTTOM (GALLONS)			
92.5	92.5	10438	0.2	2088	2088	15,816			
93	11514.10	12590	1	12590	12590	109,707			
94	13655.50	14649	1	14649	29677	230,259			
95	15800.30	17217	1	17217	46894	347,040			
96	18000.30	19892	1	19892	66786	483,826			
97	20093.50	22276	1	22276	89062	672,888			
98	22597.20	24867	1	24867	113929	886,817			
99	25366.70								

Ohio Administrative Code:

<http://codes.ohio.gov/oac/901:10-1-08v1>

901:10-1-08 Permit transfer.

(A) Transfers of permits for concentrated animal feeding facilities and concentrated animal feeding operations are permissible.

(B) In this rule, transferor means the current holder of a permit to install and/or permit to operate and/or NPDES permit. Transferee means the person making application to acquire the existing permit.

(1) The director shall be notified in writing by the transferor at least thirty days prior to any proposed transfer of a permit. The transferee shall inform the director that it will assume the responsibilities of the transferor.

(2) The notice shall include a written agreement between the transferor and transferee containing a specific date for transfer of permit responsibility, coverage and liability between the parties..

(C) In order to satisfy the requirements of paragraph (B) of this rule, the following information shall be submitted by the transferee:

(1) The name and address of the transferor and the transferee. The transferee shall identify all partners if the transferee is a partnership or all officers and directors if the transferee is a corporation, and of any other person who has a right to control or in fact controls management of the transferee or the selection of officers, directors, or managers of the transferee. If the transferee is an owner or operator, the transferee must satisfy the requirements of this rule.

(2) In the case of an application for a transfer of a permit for a major concentrated animal feeding facility, written proof that includes copies of certificates or authenticating documentation that they will employ a certified livestock manager.

(D) Each application to transfer a permit that is submitted by a new owner or operator who has not operated a concentrated animal feeding facility in this state for at least two of the five years immediately preceding the submission of the application for transfer shall be accompanied by all of the following:

(1) A listing of all animal feeding facilities that the transferee has operated or is operating in this state;

(2) A listing of the animal feeding facilities that the transferee has operated or is operating elsewhere in the United States and that are regulated under the Act together with a listing of the concentrated animal feeding facilities that the transferee has operated or is operating outside the United States;

(3) A listing of all administrative enforcement orders issued in connection with the transferee; all civil actions in which the transferee was determined by the trier of fact to be liable in damages or

was the subject of injunctive relief or another type of civil relief; all criminal actions in which the transferee pleaded guilty or was convicted during the five years immediately preceding the submission of the application for transfer in connection with any violation of the "Federal Water Pollution Control Act," the "Safe Drinking Water Act," as defined in section [6109.01](#) of the Revised Code, or any other applicable state laws pertaining to environmental protection that was alleged to have occurred or to be occurring at any animal feeding facility that the transferee has operated or is operating in the United States or with any violation of the environmental laws of another country that was alleged to have occurred or to be occurring at any concentrated animal feeding facility that the transferee has operated or is operating outside the United States. The lists of concentrated animal feeding facilities operated by the transferee within or outside this state or outside the United States shall include, respectively, all such facilities operated by the transferee during the five-year period immediately preceding the submission of the application.

(E) Denial of transfer of permits to install, permits to operate, or NPDES permits. The director may deny the application for transfer if the director finds from the application, the information submitted and pertinent information obtained by the director at the director's discretion that the transferee and persons associated with the transferee in the operation of animal feeding facilities have a history of substantial noncompliance with the "Federal Water Pollution Control Act," the "Safe Drinking Water Act," as defined in section [6109.01](#) of the Revised Code, any other applicable state laws pertaining to environmental protection or the environmental laws of another country that indicates that the transferee lacks sufficient reliability, expertise and competence to operate the concentrated animal feeding facility in substantial compliance with this chapter and rules adopted under it. In evaluating a history of substantial noncompliance the director shall consider the information required to be submitted pursuant to rule [901:10-1-03](#) of the Administrative Code. A denial by the director may be appealed by the owner or operator in accordance with Chapter 119. of the Revised Code.

(F) If the director does not notify the transferor or the transferee of an intention to object to the transfer, then the permit will be transferred. The director may also notify both the transferor and the transferee of the director's decision.

(G) The director may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary under the act.



Permit Transfer Requirements

A letter requesting the transfer must be submitted to the Division of Livestock Environmental Permitting (DLEP) that is signed by both parties (the transferor and transferee). An example is included as part of these instructions.

PLEASE NOTE: The effective date of the new ownership must be at least 30 days after (from) the date of the request. DLEP strives to complete all requests in a timely manner.

Completion and submission of the Transfer form.

Form 3900-001b if the new owner is a business, corporation, or LLC. Please note that one 3900-001b form must be completed for each business, corporation, or LLC that will be claiming ownership of the permit.

Compliance form 3900-002 must be completed, signed and submitted by each transferee (new owner, or each member of a business, corporation, or LLC) even if the transferee has owned, managed, or operated a facility as defined by Ohio Revised Code Chapter 903.

Transfer fee of \$500.00

Please direct all questions regarding your transfer request to ODA-DLEP at (614) 387-0470.





GENERAL INFORMATION

The following sections are required for the all permits, regardless of type:

- PART 1: OWNER'S/OPERATOR'S INFORMATION
- PART 2: FACILITY INFORMATION
- PART 3: WATERSHED OF RECORD
- PART 4: PERMIT APPLICATION PREPARATION
- PART 5: REASON FOR APPLICATION
- PART 6: OTHER PERMITS, LICENSES, CERTIFICATIONS, ETC.
- PART 7: CONFIDENTIAL INFORMATION
- PART 8: CERTIFIED LIVESTOCK MANAGER
- PART 9: LOCAL NOTIFICATION
- PART 10: COMPLIANCE INFORMATION
- PART 11: TYPES OF ANIMAL CONFINEMENT BUILDINGS
- PART 12: ANIMAL CAPACITY

OWNER'S/OPERATOR'S INFORMATION

INSTRUCTIONS: Identify the owner(s) of the lots, buildings, or structures where animals are or will be housed or confined. All owners, operators, officers, directors, partners, or others that have a right to control or in fact control management of a facility or the selection of officers, directors or managers of a facility must be identified. If more space is needed, attach a separate piece of paper with the required information. At least one owner/operator must sign and certify the permit application (Rule 901:10-1-02). If any owner, operator, partner, or controlling person is a corporation, limited liability company (LLC or Ltd.), or limited liability partnership (LLP), identify the officers, directors, partners, or members of that company using Form DLEP-3900-001b – Additional Owner/Operator Information Form.

1. OWNER ☐ OPERATOR ☐ (Check one or both)

Name: _____
Address: _____
City: _____ State: _____ Zip Code: _____
Phone: _____ Fax: _____ Cell: _____
Email Address: _____

2. OWNER ☐ OPERATOR ☐ (Check one or both)

Name: _____
Address: _____
City: _____ State: _____ Zip Code: _____
Phone: _____ Fax: _____ Cell: _____
Email Address: _____

3. OWNER ☐ OPERATOR ☐ (Check one or both)

Name: _____
Address: _____
City: _____ State: _____ Zip Code: _____
Phone: _____ Fax: _____ Cell: _____
Email Address: _____

4. OWNER ☐ OPERATOR ☐ (Check one or both)

Name: _____
Address: _____
City: _____ State: _____ Zip Code: _____
Phone: _____ Fax: _____ Cell: _____
Email Address: _____

5. OWNER ☐ OPERATOR ☐ (Check one or both)

Name: _____
Address: _____
City: _____ State: _____ Zip Code: _____
Phone: _____ Fax: _____ Cell: _____
Email Address: _____

SIGNATURE AND CERTIFICATION:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information is, to the best of my knowledge and belief, true and accurate and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine or imprisonment for knowing violations."
[Rule 901: 10-1-02(A)(8)]

Check one or both: ☐ Name of Owner ☐ Name of Operator

Print Name

Signature

Date Signed

FORM DLEP-3900-001, PART 2: GENERAL INFORMATION

FACILITY INFORMATION

Name of Facility: _____
Contact Person: _____
Facility Address: _____
City: _____ State: _____ Zip Code: _____
County: _____ Township: _____ Section: _____
Phone: _____ Fax: _____
Email: _____

FORM DLEP-3900-001, PART 3: GENERAL INFORMATION

WATERSHED OF RECORD

The name of the watershed can be located on the U.S. Environmental Protection Agency Watershed Information Network web site: <http://viewer.nationalmap.gov/viewer/> For assistance please contact the Ohio Department of Agriculture, Livestock Environmental Permitting Program at (614) 387-0470 or through the ODA web site at: <http://www.agri.ohio.gov/divs/DLEP/dlep.aspx>.

Watershed Name: _____
Address (8 digit code): _____

FORM DLEP-3900-001, PART 4: GENERAL INFORMATION

PERMIT APPLICATION PREPARATION

PERMIT APPLICATION PREPARED BY (Rule 901:10-1-02[A][8]):

Name: _____
Company: _____
Address: _____
City: _____ State: _____ Zip Code: _____
Phone: _____ Fax: _____
Email: _____

PERMIT TO INSTALL PREPARATION BY PROFESSIONAL ENGINEER (Rules 901:10-2-03, 901:10-2-05, 901:10-2-06):

Name: _____
Company: _____
Address: _____
City: _____ State: _____ Zip Code: _____
Phone: _____ Fax: _____
Email: _____

REASON FOR APPLICATION

A. PERMIT TO INSTALL (Rules 901:10-2-01 to 901:10-2-06)

- ☐ Proposed construction of a new CAFF or MCAFF.
- ☐ Proposed construction of a new manure storage or treatment facility at an existing CAFF or MCAFF by more than 10%.
- ☐ Proposed modification of an existing PTI ("modification" is defined in Rule 901:10-1-01).
- ☐ Proposed expansion of design capacity at an existing animal feeding facility (AFF) to the size of a CAFF or a MCAFF.
- ☐ Proposed expansion of design capacity at an existing CAFF or existing MCAFF by more than 10% increase.
- ☐ Proposed expansion of design capacity at an existing CAFF to a MCAFF.
- ☐ Other (List and describe in detail):

B. PERMIT TO OPERATE OR MAJOR OPERATIONAL CHANGE (Rules 901:10-2-07 to 901:10-2-20 and 901:10-1-09)

- ☐ Proposed operation of a CAFF or MCAFF.
 - ☐ Proposed expansion of animal numbers at an existing AFF to the size of a CAFF.
 - ☐ Renewal of an expiring PTO
 - ☐ Major Operational Change (MOC)
 - ☐ Proposed modification of an existing PTO
 - ☐ Other (List and describe in detail):
-

C. NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) (Rules 901:10-2-07 to 901:10-2-11, 901:10-2-13 to 901:10-2-16, 901:10-2-18, 901:10-2-20)

- ☐ Designated as a concentrated animal feeding facility (CAFF).
- ☐ Proposed new discharge.
- ☐ Other (List and describe in detail):

- ☐ General National Pollution Discharge Elimination System (NPDES) (901:10-4 OAC)
- ☐ Individual National Pollution Discharge Elimination System (NPDES) (Rules 901:10-2-07 to 901:10-2-11, 901:10-2-13 to 901:10-2-16, 901:10-2-18, 901:10-2-20, 901:10-3-01 to 901:10-3-11)

D. FEES:

- | | |
|--|------------|
| <input type="checkbox"/> Permit to Install | \$2,250.00 |
| <input type="checkbox"/> Permit to Operate | \$1,000.00 |
| <input type="checkbox"/> Permit Modification | \$1,000.00 |
| <input type="checkbox"/> Permit Transfer | \$ 500.00 |
| <input type="checkbox"/> Major Operational Change | \$ 500.00 |
| <input type="checkbox"/> Certified Livestock Manager | \$ 50.00 |

E. CONSTRUCTION STORM WATER NPDES PERMIT (Rules 901-10-2-04[E] and 901:10-3-11)

During the construction described in your permit application, will one acre or more be disturbed?

- ☐ Yes. You WILL need to apply for a Construction Storm Water NPDES Permit.
- ☐ No. You WILL NOT need to apply for a Construction Storm Water NPDES Permit.

OTHER PERMITS, LICENSES, CERTIFICATIONS, ETC.

The issuance of this permit does not constitute express or implied approval or agreement that if constructed and operated in accordance with the application and the plans included in the application that this facility will operate in compliance with all applicable federal, state, and local laws and regulations. Before the start of operations authorized in a permit(s) issued by ODA, the owner/operator is advised to have all other necessary permits or any other regulatory documents current and on file. List the status of any permits, licenses, etc. and the origin or source or issuing department of the permits, that are required for the operation of this facility. The source means the issuing government agency for most of these permits, which include the Ohio Department of Health, local health department, Ohio EPA, or the Ohio Department of Natural Resources. The following steps shall be followed on answering these items:

- Check YES if the Permit is issued and provide the permit number.
- Check NO if the Permit is required but not yet issued at the date of submittal of this application and provide the status of the permit application (i.e., Submitted, Not Submitted, etc.)
- Check N/A if the Permit is not applicable to this facility.

A. FLOOD PLAIN PERMIT:

<input type="checkbox"/> Yes	Permit I.D.:	_____
<input type="checkbox"/> No	Status (Pending- issue date-etc.)	_____
<input type="checkbox"/> N/A	Source:	_____

B. SEPTIC SYSTEM PERMIT:

<input type="checkbox"/> Yes	Permit I.D.:	_____
<input type="checkbox"/> No	Status (Pending- issue date-etc.)	_____
<input type="checkbox"/> N/A	Source:	_____

C. DAIRY MILK LICENSE:

<input type="checkbox"/> Yes	License I.D.:	_____
<input type="checkbox"/> No	Status (Pending- issue date-etc.)	_____
<input type="checkbox"/> N/A	Source:	_____

D. DAM SAFETY PERMIT (Ohio DNR/Division of Soil and Water Resources):

<input type="checkbox"/> Yes	Permit I.D.:	_____
<input type="checkbox"/> No	Status (Pending- issue date-etc.)	_____
<input type="checkbox"/> N/A	Source:	_____

E. WATER WITHDRAWAL REGISTRATION (Ohio DNR/Division of Soil and Water Resources):

<input type="checkbox"/> Yes	Registration I.D.:	_____
<input type="checkbox"/> No	Status (Pending- issue date-etc.)	_____
<input type="checkbox"/> N/A	Source:	_____

F. PUBLIC DRINKING WATER (25 or more employees):

☐ Yes Permit I.D.: _____
Status (Pending-issue date-etc.) _____
☐ No _____
☐ N/A Source: _____

G. MORTALITY COMPOSTING CERTIFICATION:

☐ Yes Status (Pending-issue date-etc.) _____
☐ No Issuing Agency: _____
☐ N/A

H. COMPOSTING License (If selling or giving compost away for application on land of others):

☐ Yes License I.D.: _____
Status (Pending-issue date-etc.) _____
☐ No _____
☐ N/A Source: _____

I. 401/404 CERTIFICATE (Ohio EPA/Army Corps of Engineers):

☐ Yes Certificate I.D.: _____
Status (Pending-issue date-etc.) _____
☐ No _____
☐ N/A Source: _____

J. OTHER PERMITS OR LICENSES (List and describe in detail):

☐ Yes Permit I.D.: _____
Status (Pending-issue date-etc.) _____
☐ No _____
☐ N/A Source: _____

Contact the Ohio Department of Agriculture, Division of Livestock Environmental Permitting (614) 387-0470, or the ODA web site at <http://www.agri.ohio.gov/divs/DLEP/dlep.aspx> for assistance or more information.

For NPDES purposes, please note: Agricultural activities which are subject to this permit are generally reported under one or more of the following North American Industry Classifications (NAIC) [formerly referred to as SIC codes] as found in the 2002 NAIC Manual:

NAIC 112112	Beef	NAIC 112210	Swine
NAIC 112410	Sheep/Goats	NAIC 112120	Dairy
NAIC 112320	Broilers	NAIC 112310	Eggs, Layers, Starter Pullets
NAIC 112330	Turkeys	NAIC 112340	Pullets, Hatchery
NAIC 112390	Horses	NAIC 112920	Horses

CONFIDENTIAL INFORMATION

Rule 901:10-1-05 of the Ohio Administrative Code allows an applicant to submit a claim of "trade secret" or "confidential business information" as Ohio law defines these terms. It is the applicant's responsibility to provide detailed information and supporting reasons for making such a claim before the application is submitted. It is the applicant's responsibility to mark the information or the pages or to otherwise describe in detail those parts of the application and supporting documents and enclosures for which the claim of confidentiality is sought. If the Director agrees with the reasons provided with the claim, then the information will be managed by ODA as "confidential," but with certain exceptions that are also set forth in Rule 901:10-1-05. The Director's decision with respect to a claim of confidentiality may be subject to legal challenge in Ohio under Ohio's public records laws.

CERTIFIED LIVESTOCK MANAGER

Are you applying for a Permit to Install or a Permit to Operate for a Major Concentrated Animal Feeding Facility (MCAFF)? [See Ohio Revised Code 903.01(N)].

☐ Yes ☐ No

If "Yes" and you currently employee a Certified Livestock Manager, please complete the information below and provide a copy of the CLM certificate.

Name of
CLM: _____
Address: _____
City: _____ State: _____ Zip Code: _____
Phone: _____ Fax: _____ Cell: _____
Email: _____

If "Yes," and you currently do not employee a Certified Livestock Manager, please complete Form DLEP-3900-012 CERTIFIED LIVESTOCK MANAGER and submit with the permit application.

LOCAL NOTIFICATION

FOR CAFF'S

If you are submitting a PTI application, you must provide documentation or correspondence that verifies you have notified local officials, including the Board of County Commissioners, the County Engineer, and the Board of Township Trustees (where the facility is, or will be located) to address infrastructure needs and financing of that infrastructure). This notification must include the following information [see Rule 901:10-1-02(A)(7)]:

This notification must include the following information [see Rule 901:10-1-02(A)(7)]:

- (a) The anticipated travel routes of motor vehicles to and from the facility;
- (b) Notwithstanding any exemptions that may be applicable under section 5577.042 of the Revised Code, the anticipated number and weights of motor vehicles traveling to and from the facility with an estimated maximum overall gross weight of vehicles upon the road surface;
- (c) Operational needs of the proposed facility for access to roads and location of such access; and
- (d) Operational needs of the proposed facility for access to tiles, culverts, off-site drainage, rights-of-way for manure transport.

To document that you have met these local notification requirements, you must include copies of the signed letters and copies of signed and dated correspondence to the local officials with your Permit Application. Send mail as "certified mail return receipt requested" and insert the original receipts of notice here with this page in the permit application.

FOR MCAFF'S

If you propose to establish a new MCAFF, expand an existing MCAFF's design capacity by ten percent or more, or expand an existing AFF or CAFF to an MCAFF, you are required to submit written statements from the Board of County Commissioners of the county and the Board of Township Trustees of the township in which the facility is or will be located, certifying that, in accordance with sections 307.204 and 505.266 of the Ohio Revised Code, you have provided these boards with the required written notification and that final recommendations, if any, regarding improvements and costs of improvements have been made by the boards. [Rule 901:10-1-02(A)(6)]

*Use Form DLEP-3900-004_MCAFF Local Notification in completing this process for an MCAFF.

COMPLIANCE INFORMATION

Have you owned or operated a CAFF in Ohio for at least two of the five years immediately preceding the submission of this permit application?

☐ Yes ☐ No

If "Yes," you are required to provide the following information:

PERMIT INFORMATION	
Permit Type:	
Permit Issued By:	
Permit Number:	
Permit Issue Date:	
FACILITY INFORMATION	
Facility Name:	
Facility Address:	
County:	
Owner/Operator Name:	

If "No," please complete the DLEP 3900-002 Form – Compliance Information – and enclose with this permit application.

TYPES OF ANIMAL CONFINEMENT BUILDINGS

INSTRUCTIONS: Complete the following two charts for 1) Types of Animal Confinement Buildings and 2) Total Design Capacity. If these forms do not provide enough space for the required information, then please make copies/duplicates of the forms to complete your application. [Rule 901:10-2-01(C)(2)]

The information to be provided here for Total Design Capacity is for regulatory purposes only. This information is to be used to assess how the facility "fits" into the regulatory program described in Chapter 903 of the Ohio Revised Code for large livestock facilities. These forms are not to be used to calculate manure production.

Provide the total design capacity of each building:					
Building Identification (state Existing, Remodeled or Proposed):					
Total Confinement (Enclosed):					
Partial Confinement (Open and Enclosed):					
Open Lot:					
Other					
Other					
Other					

For an existing facility, provide building identification (i.e.: Barn 1, Finisher 1, Freestall 1, etc.) and state whether it is an existing, to be remodeled or a proposed barn. If the design capacity of an existing or remodeled barn will be revised with this application, state existing population = "X" and proposed population = "Y" in the appropriate boxes. If the application is for a "modification" of the facility, be sure to check the definition of a "modification" in Rule 901:10-1-01 and then submit ALL required information below. The site map provided with the application shall clearly identify each housing building listed above and shall have the same name/identification as in this table.

ANIMAL CAPACITY

NOTE: Proposed Design Capacity means the total number of stalls or total animal design capacity for the facility upon the completion of construction of a Permit authorizing installation of additional design capacity. If no additional design capacity is proposed, the column for Existing Design Capacity only needs to be completed.

Animal Type	Minimum Design Capacity CAFF/MCAFF	Existing Design Capacity (Leave blank if new)	Proposed Design Capacity
CATTLE			
• Slaughter/Feeder/Heifer	1,000/10,000		
• Mature Cow (Milked/Dry)	700/7,000		
• Veal	1,000/10,000		
SWINE			
• Over 55 Pounds	2,500/25,000		
• Under 55 Pounds	10,000/100,000		
HORSE			
• Horse	500/5,000		
SHEEP			
• Sheep or Lamb	10,000/100,000		
TURKEYS			
• Turkey	55,000/550,000		
CHICKENS			
• Laying Hen	82,000/820,000		
• Pullet or Broiler	125,000/1,250,000		
DUCKS			
• Duck	35,000/350,000		
OTHER			

PAYMENT REQUIRED

Remittance of the appropriate fee(s) must be enclosed and made payable to: Ohio Department of Agriculture. Payment by check or money order only:

Permit to Install	\$2,250
Permit to Operate	\$1,000
Permit Modification	\$1,000
Permit Transfer	\$500
Major Operational Change	\$500
Certified Livestock Manager	\$50

Payment Method: ☐ Money Order ☐ Check Number: _____

Amount Enclosed: \$_____



ADDITIONAL OWNER/OPERATOR INFORMATION FORM CORPORATIONS, LIMITED LIABILITY COMPANIES, AND LIMITED LIABILITY PARTNERSHIPS

INSTRUCTIONS: Use a separate copy of this form for each corporation, limited liability company, or limited liability partnership that has been identified as an owner, operator, partner or controlling person of the facility on the General Information Form. For each of these business entities, all officers, directors, partners, members, or others that have a right to control or in fact control management of the business entity or the selection of officers, directors or managers of the business entity must be listed below. If more space is needed, attach a separate piece of paper with the required information.

NAME OF BUSINESS ENTITY: _____

Check one or both:

☐ Name of Owner

☐ Name of Operator

Officer/Member 1:

Name: _____

Title: _____

Address: _____

City: _____

State: _____

Zip Code: _____

Phone: _____

Fax: _____

Cell: _____

Email: _____

Officer/Member 2:

Name: _____

Title: _____

Address: _____

City: _____

State: _____

Zip Code: _____

Phone: _____

Fax: _____

Cell: _____

Email: _____

Officer/Member 3:

Name: _____

Title: _____

Address: _____

City: _____

State: _____

Zip Code: _____

Phone: _____

Fax: _____

Cell: _____

Email: _____

Officer/Member 4:

Name: _____
Title: _____
Address: _____
City: _____ State: _____ Zip Code: _____
Phone: _____ Fax: _____ Cell: _____
Email: _____

Officer/Member 5:

Name: _____
Title: _____
Address: _____
City: _____ State: _____ Zip Code: _____
Phone: _____ Fax: _____ Cell: _____
Email: _____

Officer/Member 6:

Name: _____
Title: _____
Address: _____
City: _____ State: _____ Zip Code: _____
Phone: _____ Fax: _____ Cell: _____
Email: _____

Officer/Member 7:

Name: _____
Title: _____
Address: _____
City: _____ State: _____ Zip Code: _____
Phone: _____ Fax: _____ Cell: _____
Email: _____

Officer/Member 8:

Name: _____
Title: _____
Address: _____
City: _____ State: _____ Zip Code: _____
Phone: _____ Fax: _____ Cell: _____
Email: _____



COMPLIANCE INFORMATION

Submittal of a Compliance Information Form is necessary to fulfill the requirements of Section 903.05 of the Ohio Revised Code (ORC) and rules 901:10-1-02, 901:10-1-03, and 901:10-1-08 of the Ohio Administrative Code (OAC). A Compliance Information Form shall be used by any person applying for a permit to install or permit to operate or for a transfer of an existing permit, under these sections.

Rules 901:10-1-02 and 901:10-1-03 of the OAC and Section 903.05 of the ORC require that all applicants seeking to own or operate a concentrated animal feeding facility (CAFF) fill out a Compliance Information Form if they have not operated a CAFF in the state of Ohio for two of the last five years immediately preceding the permit application. If an applicant seeks to purchase or acquire a previously permitted CAFF pursuant to 903.05(C) and rule 901-10-1-08, the applicant must complete the Compliance Information Form before the CAFF permit can be transferred to the applicant. In addition to the Compliance Information Form, an applicant may submit additional information explaining the applicant's record of environmental compliance. The Department is interested in information that demonstrates competence, reliability, and expertise in the operation of animal feeding facilities.

Applicants should recognize that the Department may verify the information submitted on this form by conferring with other Divisions within the Department of Agriculture as appropriate, e.g., with the Dairy Division or Division of Animal Industry. In addition, the Director may contact the United States Environmental Protection Agency, the Ohio Environmental Protection Agency, the Ohio Department of Natural Resources, local Soil and Water Conservation Districts, other states' regulatory agencies, local health departments, and other appropriate government agencies in other countries to confirm the applicants' compliance history. To expedite the Director's review and verification, the owner, operator, or applicant must submit copies of any documents pertaining to enforcement actions—whether administrative, civil, or criminal—and related compliance information.

A permit to install or permit to operate or an application to transfer a permit can be denied because of the compliance history of the applicant or persons associated with the applicant in the operation of animal feeding facilities. Even if the applicant has operated a concentrated animal feeding facility in Ohio for two of the past five years immediately preceding the application, the Director can deny a new or renewal permit in accordance with Section 903.05(B) of the ORC. If information is submitted to the Director or if the Director obtains other information that the applicant and persons associated with the applicant have a history of substantial noncompliance that indicates that the person lacks sufficient reliability, expertise, and competence to operate the concentrated animal feeding facility in substantial compliance with ORC Chapter 903 or the rules adopted under it, the Director may deny the permit or transfer application. The Director shall deny the permit if the application contains false or misleading information.

For new facilities, a copy of the final report on Compliance Information will become part of the Permit.

The following sections are required for the Compliance Information Form:

- PART 1: APPLICANT'S NAME AND ADDRESS
- PART 2: OTHER ANIMAL FEEDING FACILITIES (IN OHIO ONLY)
- PART 3: OTHER ANIMAL FEEDING FACILITIES (OUTSIDE OHIO; IN U.S.)
- PART 4: OTHER ANIMAL FEEDING FACILITIES (OUTSIDE THE U.S.)
- PART 5: COMPLIANCE RECORD
- PART 6: SIGNATURE AND AUTHORIZATION

INSTRUCTIONS: Applicants for permits to install and permits to operate must complete a separate Compliance Information Form (LEPP-3900-002) for each person identified on General Information Forms. For permit transfers, a copy of this form must be completed for each transferee (permit transferees may find it helpful to also use General Information Forms to organize their submittal). If more space is needed to answer any question, attach a separate piece of paper with the required information.

FORM DLEP-3900-002, PART 1: COMPLIANCE INFORMATION

APPLICANT'S NAME AND ADDRESS

Name: _____
Address: _____
City: _____ State: _____ Zip Code: _____
Telephone: _____ Fax Number: _____
E-mail: _____

FORM DLEP-3900-002, PART 2: COMPLIANCE INFORMATION

ANIMAL FEEDING FACILITIES (IN OHIO ONLY)

List the AFFs or CAFFs that you have operated (during the five-year period immediately preceding the submission of the current permit application) or are operating in Ohio.

Name of AFF or CAFF	Location Address	County	Permit ID(s)	Date

OTHER ANIMAL FEEDING FACILITIES (OUTSIDE OHIO; IN U.S.)

List the AFFs or CAFFs that you have operated (during the five-year period immediately preceding the submission of the current permit application) or are operating elsewhere in the United States and that are regulated under the Federal Water Pollution Control Act.

Name of AFF or CAFF	Location Address	County	Permit ID(s)	Date

OTHER ANIMAL FEEDING FACILITIES (OUTSIDE THE U.S.)

List the AFFs or CAFFs that you have operated outside the United States during the five-year period immediately preceding the submission of the current permit application.

Name of AFF or CAFF:	Applicant's Date of Birth:
Farm Address:	
Country:	State/Province:
Agency of Regulation:	
Agency Address:	
Permit ID:	Date Affiliated:
Name of AFF or CAFF:	Applicant's Date of Birth:
Farm Address:	
Country:	State/Province:
Agency of Regulation:	
Agency Address:	
Permit ID:	Date Affiliated:
Name of AFF or CAFF:	Applicant's Date of Birth:
Farm Address:	
Country:	State/Province:
Agency of Regulation:	
Agency Address:	
Permit ID:	Date Affiliated:
Name of AFF or CAFF:	Applicant's Date of Birth:
Farm Address:	
Country:	State/Province:
Agency of Regulation:	
Agency Address:	
Permit ID:	Date Affiliated:

COMPLIANCE RECORD

List all administrative enforcement actions issued to you, all civil actions in which you have determined by the trier of fact to be liable in damages or were the subject of injunctive relief or another type of civil relief, and all criminal actions in which you pleaded guilty or were convicted during the five years immediately preceding the submission of this permit application in connection with any violation of the Clean Water Act, the Safe Drinking Water Act or any other applicable state laws pertaining to environmental protection that was alleged to have occurred or to be occurring at any AFF that you have operated or are operating in the United States or with any violation of the environmental laws of another country that was alleged to have occurred or to be occurring at any AFF that you have operated or are operating outside the United States.

"Administrative Enforcement Action" means any administrative orders, notices of violation letters, and letters that serve as notices of deficiencies that result in noncompliance.

ADMINISTRATIVE ENFORCEMENT ACTIONS

☐ None.

☐ Pending: _____

☐ Resolved: _____

☐ Dismissed: _____

CIVIL ACTIONS

☐ None.

☐ Pending: _____

☐ Resolved: _____

☐ Dismissed: _____

CRIMINAL ACTIONS

☐ None.

☐ Pending:

☐ Resolved:

☐ Dismissed:

FORM LEPP-3900-002, PART 6: COMPLIANCE INFORMATION

SIGNATURE AND AUTHORIZATION

"I authorize the Soil and Water Conservation District having authority over any operation or facility identified above to disclose to the Ohio Department of Agriculture any and all information that may be on file with the local Soil and Water District and the Division of Soil and Water within the Ohio Department of Natural Resources. I understand that I may claim confidentiality for any information in the local or division files if that information is a trade secret, confidential business information, or confidential financial information."

Signature

Date Signed

Print Name

NOTE: You may submit any explanation pertaining to the above actions for consideration by the Director. This may include discussion of notices of violation letters or related government correspondence, fines, penalties paid, or work or services performed in place of fines or penalties.

☐ Check if you are enclosing additional information.



Current Name of Facility: _____

New Owner or Operator Information – If an LLC, Corporation, or other business entity form 3900-001b must be completed

Name: _____

Address: _____

City: _____ State: _____ Zip Code: _____

Phone _____ Fax: _____

_____ Cell: _____

Email _____

Address: _____

Name of Second Owner or Operator Information (if applicable)

Name: _____

Address: _____

City: _____ State: _____ Zip Code: _____

Phone _____ Fax: _____

_____ Cell: _____

Email _____

Address: _____

Name of contact: _____

New Name of Facility: _____

Please provide the email address at which you wish to receive all correspondence:

Form 3900-002 (Compliance Information) must be completed for each Owner, Operator, or member listed on form 3900-001b.

The transfer fee of \$500 must be received in order to process your request.



SAMPLE LETTER FOR TRANSFER REQUEST

Date: _____

Re: Transfer of Permit No. _____

To the Livestock Environmental Permitting Program:

Pursuant to Ohio Administrative Code 901:10-1-08, _____ hereby requests the Ohio Department of Agriculture, DLEP transfer Permit to Operate Number _____ currently issued to _____ located at _____, _____ Township, _____ County, Ohio _____.

The new owner(s) of this permit: _____, hereby accepts all responsibility of the permit, as well as the day to day operations of the facility, effective _____ (may not be less than 30 days from the date of the transfer request).

The transfer fee of \$500.00 and all documents required to effectuate this transfer are enclosed.

Signature of Transferor

Signature of Transferee

Print Name of Transferor (current owner)

Print Name of Transferee (new owner)