

State Conservation Commission Meeting

November 10, 2015

Pa Department of Agriculture, Harrisburg PA

Agenda

Briefing Session – 10:00am; Rm. 309

1. Demonstration – Ver. 5.0 Nutrient Management planning spreadsheet – Donald Orner, PSU
2. Review of agenda items.

Business Session – 1:00pm; Rm 309

A. Opportunity for Public Comment

B. Business and Information Items

1. Approval of Minutes (A)
 - a. September 15, 2015 Public Meeting
 - b. October 13, 2015, 2015 Conference Call
2. Proposed 2016 meeting and conference call dates - Karl G. Brown, SCC (A)
3. Selection of 2016 Vice-Chair - Karl G. Brown, SCC (A)
4. Nutrient and Odor Management Program (A)
 - a. Kimberly Schlappich OMP, Berks County - Karl Dymond, SCC
 - b. Hillandale-Bailey Farm NMP - Michael Brubaker, SCC
5. Conservation District Fund Allocation Program - Karl G. Brown, SCC (A)
 - a. Proposal for distribution of FY2015-16 allocated funds
 - b. CDFAP Statement of Policy and Related Issues
6. RCCP Update and Commitments - Karl G. Brown, SCC (A)
7. Update on Conservation District Building Projects (NA)
 - a. Erica Tomlinson, Tioga County Conservation District
 - b. Jim Garner, Susquehanna County Conservation District
8. Chesapeake Bay Program (NA)
 - a. Chesapeake Bay 'Reboot' - Sec. Russell Redding, PDA
 - b. BMP Farmer Self-reporting Initiative - Steven W. Taglang, DEP
9. HPAI Update - Dep. Sec. Greg Hostetter (NA)

'A' denotes 'Action Requested'
'NA' denotes 'No Action Requested'

C. Written Reports

1. Program Reports
 - a. Act 38 Nutrient Management Program
 - b. Act 38 Facility Odor Management Program - Status Report on Plan Reviews
 - c. Certification and Education Programs
 - d. REAP Program
 - e. Dirt Gravel, Low Volume Road Program
2. Ombudsman Program Reports – Southern Allegheny Region (Blair County Conservation District and Lancaster County Conservation District).

D. Cooperating Agency Reports

Adjournment

Next Conference Call – December 8, 2015; 8:30am

Next Public Meeting – 2016 TBD

DRAFT

STATE CONSERVATION COMMISSION MEETING
PA Dept of Agriculture, Harrisburg, PA
Tuesday, September 15, 2015 @ 1:00 p.m.

Draft Minutes

Members Present: Deputy Secretary Greg Hostetter for Secretary Russell Redding, PDA; Steve Taglang, Bureau of Conservation and Restoration, DEP for Secretary Jon Quigley; Ronald Rohall; Ross Orner; Ronald Kopp; Michael Flinchbaugh; Andrew Gilchrist for Secretary Cindy Adams Dunn, DCNR; Dr. Richard Roush, Dean of Agriculture Sciences at PSU via conference call; Glenn Seidel, President of PACD; Denise Coleman, State Conservationist, USDA NRCS.

B. Public Input

There were no public comments.

C. Business and Information Items

1. Approval of Minutes

a. July 8, 2015 Public Meeting

Mike Flinchbaugh moved to approve the July 8, 2015 minutes as amended. Motion seconded by Ron Rohall. Motion carried.

b. August 11, 2015 Conference Call

Steve Taglang moved to approve the minutes of the August 11, 2015 conference call. Motion seconded by Mike Flinchbaugh. Motion carried.

2. Proposed changes to Chapter 102 Erosion and Sediment Control & Chapter 105 Dam Safety and Waterway Management delegation agreements (A) – Ken Murin/Jen Orr, DEP

Ken reported that conservation districts have provided the Commonwealth assistance through delegated and contracted programs, including the Erosion and Sediment Control Program (Chapter 102), the Water Obstruction and Encroachment Permit Program (Chapter 105), and the federal NPDES Program. In 2011-2012, a workgroup was created to make changes to the agreement. In 2013, the workgroup asked districts for feedback to the agreement changes at the Joint Annual Conference meeting in January. In 2014, the agreement was updated with additional comments from conservation districts. This year, a copy of the final agreements was sent to all conservation districts which included a webinar to discuss changes. Ken and Jennifer Orr reviewed substantive changes in the agreements, particularly those changes concerning post construction storm water management and general permit activities with the Commission. It was also noted that a conservation district must submit a letter of intent defining what level of delegation the district intend to seek. Both agreements are subject to a three year evaluation. Ken noted that Chapter 102 costs associated with the changes are mostly covered by fees collected by DEP and the individual district. Chapter 105 costs are about 30% covered by DEP.

Ron Rohall moved to approve the Chapter 102 Erosion and Sediment Control delegation. Motion seconded by Steve Taglang. Motion carried.

Ron Rohall moved to approve the Chapter 105 Dam Safety delegation. Motion seconded by Steve Taglang. Motion carried.

Ron Rohall moved to approve the Post Construction Stormwater Management delegation. Motion seconded by Mike Flinchbaugh. Motion carried.

3. Nutrient and Odor Management Program

a. Nutrient Management Advisory Board Appointment (A) - Larry Baum, SCC

Larry reported that the Nutrient Management Advisory Board (NMAB) members are appointed by the Commission Chairman and require a confirmation vote by the Commission. Agriculture Secretary Russell Redding has nominated Marvin E. Zimmerman to serve as the Feed Industry Representative on the NMAB. Mr. Zimmerman is employed as a Feed Sales Manager by Kirby AGRI Inc. A copy of his resume was provided to the Commission for their information.

Mike Flinchbaugh moved to approve Marvin E. Zimmerman to the Nutrient Management Advisory Board. Motion seconded by Deputy Secretary Greg Hostetter. Motion carried.

b. Proposed Changes to the Nutrient Management and Manure Management Program Administrative Manual (A) - Frank Schneider, SCC

Frank reported that the Nutrient Management Program Administrative Manual provides guidance to Commission and conservation district staff that implements the Nutrient Management Program and the DEP Manure Management Program on a daily basis on behalf of the Commission and the Department. In December 2014, Commission staff began the process to gather suggestions from conservation districts to update the manual through a 45-day open comment period. Frank reviewed several of the significant proposed changes which include 1) clarification on delegated duties, 2) plan review extension protocols and 3) status review guidance.

Mike Flinchbaugh moved to approve the changes to the Nutrient Management and Manure Management Program Administrative Manual. Motion seconded by Ron Rohall. Motion carried.

c. Proposed changes to the Nutrient Management Act Program Technical Manual (A) - Frank Schneider, SCC

Frank reported that the Nutrient Management Program Technical Manual provides guidance to Commission staff, conservation district staff, and certified nutrient management specialists that write and/or review Act 38 Nutrient Management plans. In December 2014, Commission staff began the process to gather suggestions from conservation districts to update the manual through a 45-day open comment period. Frank reviewed two (2) major changes to the Technical Manual: 1) plan submission time frames and 2) over-allocation options for manure planning.

Mike Flinchbaugh moved to approve the changes to the Nutrient Management Act Program Technical Manual. Motion seconded by Ron Kopp. Motion carried.

d. Proposed changes to the Nutrient Management Act Program Technical Manual Update Timeline (A) - Frank Schneider, SCC

Frank reported that for the last two years, Commission staff completed annual updates to the Nutrient Management Program Technical Manual. During the last year of discussion and work on the manual updates, Nutrient Management Advisory Board members suggested that a longer time frame between review and consideration of changes to this manual would be beneficial. Instead of annual updates, updates should

occur on a two year cycle to allow a more thorough consideration of the proposed changes.

Ron Kopp moved to approve the changes to the Nutrient Management Act Program Technical Manual 'Update Timeline' to a 2-year cycle. Motion seconded by Steve Taglang. Motion carried.

4. Request to designate the Alliance for the Chesapeake as a Cooperating Organization (A) - Steven Wm. Taglang

Steve reported that Conservation District Law state that the Commission may designate cooperating organizations to assist the Commission in implementation of provisions of the Conservation District Law. DEP is requesting that the Alliance for the Chesapeake Bay be designated by the Commission as a cooperating organization. This will allow DEP to enter into agreement with the Alliance to assist with implementation of education programs benefiting the Chesapeake Bay jurisdictions.

Ron Rohall moved to approve the Alliance for the Chesapeake as a Cooperating Organization. Motion seconded by Mike Flinchbaugh. Motion carried.

5. Approval of the use of the Special Project Agreement for 2015 Chesapeake Watershed Forum Scholarships (A) - Steven Wm. Taglang, DEP

Steve reported that DEP is requesting the approval for the use of a special project agreement for the 2015 Chesapeake Watershed Forum Scholarship Program. This agreement will be with the Alliance for the Chesapeake Bay to facilitate the scholarship program in the jurisdictions surrounding the Chesapeake Ba. Ten (10) scholarships will be awarded in this program year.

Ron Kopp moved to approve the use of the Special Project Agreement for the 2015 Chesapeake Watershed Forum Scholarships. Motion seconded by Mike Flinchbaugh. Motion carried.

6. Update on HP Avian Influenza, Greg Hostetter, Deputy Secretary, PDA

Deputy Hostetter reported that 223 flocks across the United States have contracted avian influenza (AI) with turkey and laying hen flocks affected most frequently. Iowa and Minnesota have been hit the hardest. There has been an estimated loss of \$33 billion dollars in the poultry industry. PA has made available up to \$3.0 million dollars to prevent, contain and control avian influenza. There are currently 11,000 registered poultry sites in PA. If a flock contracts AI, the farmer will receive fair market value of the inventory of infected birds as compensation for depopulation.

C. Cooperating Agency & Organization Reports

Drew Gilchrist, DCNR

Drew reported The Department of Conservation and Natural Resources (DCNR) and the Pennsylvania Park and Recreation Society (PRPS) are inviting Pennsylvanians to find some healthy fun at a park or recreation program close to them through a new website, brand and outreach effort. The "Good for You, Good for All" campaign is intended to broaden awareness, and increase engagement and support for local parks and recreation. The campaign hopes to make more than 5,600 local parks go-to destinations for Pennsylvanians

with a new interactive map feature at www.GoodForPA.com. The map lets visitors search for a local park nearby or by county; provides aerial photography of the facility and a list of amenities available.

Steve Taglang, PA DEP

Steve reported, funding for SWAT agreement is currently available and interested conservation districts may apply for funding with DEP. The Department is currently working with PACD in a new BMP data collection initiative to collect information for the Chesapeake Bay model.

Denise Coleman, NRCS

Denise reported that the 2016 fiscal year include \$23 million available for best management practice implementation programs (e.g. EQIP). An equine MOU between the Conservation Partnership was recently signed by the partners and includes initiatives to better serve the equine industry. The Soil Health Train the Trainer event took place in August with over 30 soil health professionals participating. NRCS would like to thank PSU for their collaboration on this event.

Glenn Seidel, PACD

Glenn asked the Commission if the budget impasse will affect the flow of funding to conservation districts. Karl Brown responded noting that most funds for conservation districts are processed quarterly and payments are generally distributed at the end of a quarter. It was suggested that conservation districts should have a contingency plan in the event of a prolonged budget impasse. Glenn also asked the Commission how many open positions are on the Commission. There are currently two positions – a farmer and a public position that will need to be appointed by the Governor.

C. Written Reports

1. Program Reports
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2. Ombudsman Program Reports – Southern Allegheny Region (Blair County Conservation District and Lancaster County Conservation District)

F. Adjournment

Motion to adjourn was made by Mike Flinchbaugh. Motion seconded by Ron Kopp. Meeting adjourned at 2:37 p.m.

The next SCC public meeting is scheduled for a public meeting on November 10, 2015; 1:00 p.m. at the Pa Department of Agriculture, Harrisburg PA.

November 2, 2015

To: State Conservation Commission Members
From: Karl G. Brown
Executive Secretary
RE: Tentative 2016 Meeting Dates and Conference Call Dates

The following are proposed 2016 Commission meeting dates.

2016 Proposed Meeting Dates

<u>Date</u>		<u>Location</u>
February 9 th	(PACD Winter Meeting)	State College
March 8 th		Harrisburg
May 10 th		Harrisburg
July 27 th	(Joint Annual Conference)	State College
September 13 th		Harrisburg
November 8 th		Harrisburg

2016 Proposed Conference Call Dates

(8:30-10:00AM)

January 12st *
April 12th
June 14th
August 9th
October 11th (or 12th) **
December 13th

* PACD has moved their winter meeting from January to February 2016. Commission staff is proposing to hold a new member orientation or a planning meeting in January 2016 in lieu of our traditional joint January meeting with PACD. The February and July meetings would be a joint meeting with PACD.

**October 10th – Columbus Day holiday – state offices closed

Date: November 2, 2015

To: State Conservation Commission Members

From: Karl G. Brown
Executive Secretary

RE: Election of Vice-Chairperson

Background:

Section 4(1) of the Conservation District Law, Act 217, states in part that, “at the last regular meeting of the Commission in the calendar year, a vice-chairperson shall be elected by the members of the Commission and shall serve in that capacity for the ensuing year.”

Since the November 10, 2015 is the last regularly scheduled meeting of the State Conservation Commission for 2015, action to fill the position of vice-chairperson for 2016 is necessary. Mr. Ross Orner currently serves as the vice-chairperson of the Commission. However, his appointment to the Commission expires as of November 30, 2015 and will not be eligible to serve in this capacity unless reappointed as a Commission member.

Responsibility of the vice-chairperson is to preside over any business meetings of the Commission in the absence of the Chairman.

Action Required:

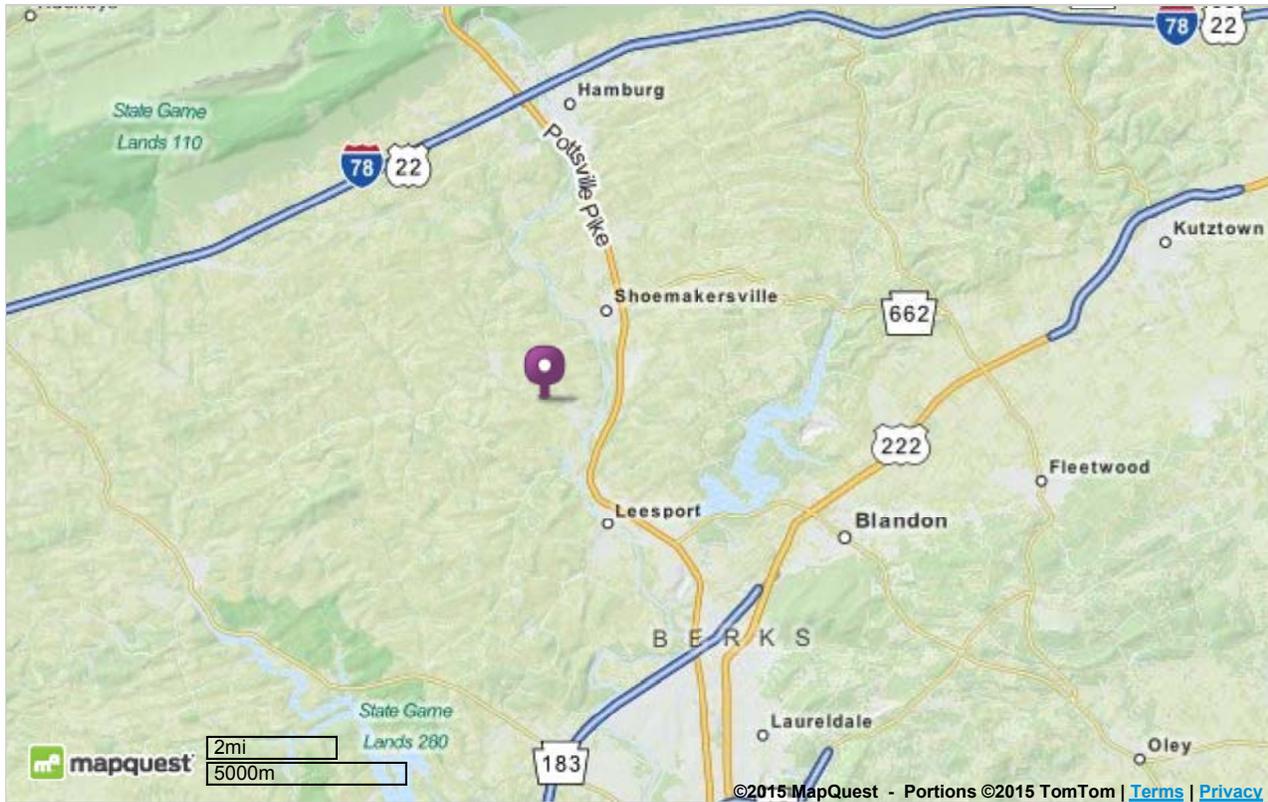
A motion to elect a Commission vice-chairperson for 2016 is necessary.



Map of:
1359 Main St
Mohrsville, PA 19541-8768

Notes

Kimberly Schlappich OMP



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Odor Management Plan - Amendment

File Folder Created For:

KIMBERLY SCHLAPPICH

Prepared by:

Sarah Crooke

Rosetree  Consulting
Agricultural • Environmental

20 Glenbrook Drive
Shillington, PA 19607
(484) 788.7263

Odor Management Plan Amendment (A)

Prepared For:

Kimberly Schlappich

Kimberly Schlappich

1345 Main Street

Mohrsville, PA 19541

484.250.6525

County/ Municipality: Berks County; Center Township

Mailing Address (if Different from Site Address)

Prepared By:

Rosetree Consulting

Sarah Crooke

OM Certification # 101 - OMC

20 Glenbrook Drive

Shillington, PA 19607

484.650.7787

scrooke@rosetreeconsulting.com

For Official Use Only	
Date of Plan Submission:	<u>October 15, 2015</u>
Date of Plan Approval:	_____
Date(s) of Plan Updates (not requiring SCC action):	

Table of Contents

Kimberly Schlappich Odor Management Plan

Planner and Operator Commitments & Responsibilities	4
Plan Development Requirements.....	4
Planner Signature & Agreement	4
<i>OMP Amendment Name:</i> Kimberly Schlappich.....	5
Operator Requirements	5
Odor Management Plan Signature Requirements.....	5
Operator Signature & Agreement	5
Plan Summary.....	6
Proposed Facilities:.....	6
Currently Regulated Facilities:	7
B. Odor Site Index Summary (see Appendix 3 to view complete Index).....	7
C. Odor BMP Implementation, Operation & Maintenance Schedule	7
Level I Odor BMPs Principles.....	7
Level I Odor BMPs to be Implemented.....	8
Level II Odor BMPs to be Implemented:	9
D. Documentation Requirements.....	11
Level I Odor BMP Documentation Requirements.....	12
Level II Odor BMP Documentation Requirements	12
Odor BMP Implementation Commitment Statement	14
OMP Amendment Name: Kimberly Schlappich.....	14
Level I Odor BMPs Principles.....	14
Odor Management Plan Requirements	14
Level I Odor BMPs – Maintenance Log YEAR 2016	15
Level II Odor BMPs – Quarterly Observation Log YEAR 2016.....	16
LEVEL II ODOR BMP NAME:.....	16
Appendix 1: Operation Information.....	19
Part A: Odor Source Factors.....	19
Existing Facilities Description:.....	19
Currently Regulated Facilities:	20
Proposed Regulated Facility(ies) Description:	21
Part B: Site Land Use Factors.....	23
Part C: Surrounding Area Land Use Factors	23
Appendix 2: Operational Maps.....	24

Topographic Map.....	24
Site Map.....	24
Appendix 3: Plan Evaluation – OSI.....	25
Appendix 4: Biosecurity.....	26
Biosecurity Protocol Contact Information.....	26
Appendix 5: Supporting Documentation.....	27

Planner and Operator Commitments & Responsibilities

Plan Development Requirements

This odor management plan (OMP) has been developed to meet the requirements of Pennsylvania's Nutrient and Odor Management Act, Act 38 of 2005 (Act 38), for the State Conservation Commission's (Commission) Odor Management Program for the following farm type(s): **NOTE: Select all check-boxes that apply.**

- Pennsylvania Act 38 Concentrated Animal Operation (CAO)
- Pennsylvania CAFO (Concentrated Animal Feeding Operation (CAFO) program
- Odor Management Program Volunteer Animal Operation (VAO)

Planner Signature & Agreement

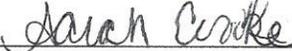
The planner's signature below certifies that this plan was developed in conjunction with, and reviewed by the operator, prior to submitting it for review. The plan cannot be submitted until the operator understands and agrees with all the provisions of the plan. If the reviewer finds that the planner has not reviewed at least the Plan Summary with the farmer, then the plan reviewer is to relay that information to the certification program staff for their consideration.

The planner's signature and below date(s) certifies that a site visit(s) was conducted by an **Act 38 Certified Odor Management Specialist** to verify the criteria within the evaluation distance area at the time of developing the plan, specifically for the odor source(s), for locating houses, churches, businesses and public use facilities within the evaluation distance, as well as for the site land use and the surrounding land use factors.

The information contained in this plan is accurate to the best of my knowledge. This plan has been developed in accordance with the criteria established for the Act 38 Odor Management Program indicated above. I affirm the foregoing to be true and correct, and make these statements subject to the penalties of 18 Pa. C.S. § 4904, relating to unsworn falsification to authorities.

Planner Name: Sarah Crooke

Certification number: 101 - OMC

Signature of Planner: 

Date: 10-5-2015

Date(s) Evaluation Distance Area Site Visit Conducted: August 14, 2015

OMP Amendment Name: Kimberly Schlappich

Operator Requirements

Plan Implementation & Documentation: Odor Management Plans developed under Act 38 are required to be implemented as approved in order to maintain compliance. Implementation includes: adherence to installation of listed Odor Best Management Practices (Odor BMPs) within implementation schedule timeframes and conditions; maintenance of the Odor BMPs consistent with the operation and maintenance schedule timeframes; conditions contained in this plan; and record keeping obligations of the program. Agricultural operations are also required to keep and maintain accurate records of the Odor BMPs consistent with the schedules and are required to allow the Commission access to those records in order to determine the compliance status.

Post Construction Inspection: Prior to utilizing a new or expanded animal housing facility or manure storage facility addressed in this plan, the operation must receive written approval from the Commission confirming implementation of the plan. **In order to obtain this written approval the operator, upon completion of construction activities, must inform the Commission in writing via certified mail of their desire to begin using the new or expanded regulated facilities.** At that time the Commission will send out a representative to assess and verify the implementation of the approved Odor Management Plan.

Compliance Inspections: Plans developed under this program also require agricultural operations to allow periodic access by the Commission for status review and complaint inspections, in order to determine the status of the operation's compliance and whether a plan amendment is required. Inspections will be scheduled at least annually. Agricultural operations will provide the operation's biosecurity contact and protocols to the Commission.

Odor Management Plan Signature Requirements

In accordance with §83.741(i), plans shall be signed by the *Operator/ Authorized Representative* of the agricultural operation indicating concurrence with the information in the plan and acceptance of responsibilities under the plan. The following signature requirements apply:

- (i) For sole proprietorships, the proprietor.
- (ii) For partnerships, a general partner.
- (iii) For corporations, a vice president or president. For any other authorized representative, the plan must contain an attachment, executed by the secretary of the corporation, which states that the person signing on behalf of the corporation is authorized to do so.

NOTE: When using a business name for the plan, the business name must be registered with the Pennsylvania Department of State.

Operator Signature & Agreement

In accordance with §§83.751 (content of plans) and 83.762 (operator commitment statement), the *Signature of Operator/ Authorized Representative* below certifies that I was involved with the development of this plan, that the plan writer reviewed the plan with me, and that I am agreeable to the provisions outlined in this plan. All the information I provided in this odor management plan is accurate to the best of my knowledge and I will implement the practices and procedures outlined in the odor management plan in order to manage the potential for impacts from the offsite migration of odors associated with the operation for which this OMP is written.

Indicate business entity type: Sole Proprietor Partnership/ LP/ LLP Corporation/ LLC

Signature of Operator/ Authorized Representative:

Kimberly Schlappich Date: 10-5-2015

Print Name of Operator/ Authorized Representative:

Kimberly Schlappich

Title of Operator/ Authorized Representative:

Owner

Business Legal Name of the Operation:

Kimberly Schlappich

Plan Summary

Clearly detail why an amendment to the approved plan is required.

The duck house and manure storage facilities, originally proposed along the western edge of the property, now has a new proposed location along the eastern edge of the property. Duck numbers and size of the barn remain consistent with the OMP Standard Plan. The newly proposed duck facility location is closer to the town of Mohrsville. An additional change is the manure storage facility. Original proposed storage was a 76 ft x 23 ft slurry store. Newly proposed MSF is a HPDE lined lagoon. With a new OSI score from the increase in neighboring facilities, level 2 BMPs are now required.

Operation Summary (see **Appendix 1 to view complete Operation Information**)

Proposed Facilities:

Detail the Animal Type associated with the Proposed Facilities and consistent with the Animal Type detailed in the OSI. If animal numbers (AEUs) from existing facilities are voluntarily being added to the plan, detail the AEUs number; otherwise state "None", "Zero (0)" or "Not Applicable".

NOTE: *AEU calculations and AEUs per acre calculation must reflect those in the most current Act 38 NMP, otherwise explain the difference and submit the calculations in Appendix 5: Supporting Documentation.*

Proposed OSI Animal Type:	Ducks
Proposed Animal Numbers:	44,000
Proposed AEUs <i>(per animal type)</i> :	148.1
Voluntary Existing Animal Type:	0
Voluntary Existing AEUs <i>(per animal type)</i> :	0
Regulated AEUs under Previous Plan(s): <i>(Associated with Currently Regulated Facilities below)</i>	0 *See Appendix 5
Total AEUs Covered by this Plan:	148.1
 AEUs per acre for the operation:	 148.1

Is there an approved Act 38 NMP for this operation? Yes No

NOTE: *If No, explain in Appendix 5: Supporting Documentation.*

Currently Regulated Facilities:

Detail in the tables below, each regulated animal housing facility and/or manure storage facility that was previously approved and is already constructed. Detail the Dates and AEU's separately (copy & paste) for each previously approved plan or amendment.

Plan Approval Date: 4-28-2015 Currently Regulated AEU's: 148.1

Animal Housing Facility <input checked="" type="checkbox"/> None	Dimensions	Livestock Capacity
None (See Appendix 5)		

Manure Storage Facility <input checked="" type="checkbox"/> None	Dimensions	Usable Capacity
None (See Appendix 5)		

B. Odor Site Index Summary (see Appendix 3 to view complete Index)

NOTE: If multiple Geographic Centers are used, you must provide scores for each geographic center. Scores listed here must match the final scores in the OSI.

Score: 203.69375

C. Odor BMP Implementation, Operation & Maintenance Schedule

NOTE: All Required Odor BMPs from previous approved plans or plan amendments, which are still applicable to its associated regulated facility, must be identified below in addition to any proposed Odor BMPs associated with this plan amendment. If specific Odor BMPs that were previously approved no longer apply to this site specific scenario, contact Odor Management program staff to identify and discuss this operational change prior to submitting the plan amendment.

Level I Odor BMPs Principles

1. Steps taken to reduce dust and feed accumulation in pens, aisles, and on animals.
2. Manage ventilation to provide sufficient fresh airflow throughout the facility to keep animals and facility surfaces clean and dry.
3. Manage manure to minimize damp, exposed manure that contributes to odor generation.
4. Remove mortalities daily and manage appropriately.
5. Manage feed nutrients to animal nutrient requirements in order to avoid excess nutrient excretion.
6. Manage manure storage facility to reduce exposed surface area and off-site odor transfer.

Definitions:

- **Required Odor BMPs** – In accordance with §§83.771, 83.781-83.783, Required Odor BMPs are the Odor BMPs required for implementation when there is a neighboring facility or a public use facility in the evaluation distance area, or when the OSI score is 50 or more points (Level I Odor BMPs), and when the OSI score is 100 or more points (Level II Odor BMPs).
- **Voluntary Odor BMPs** – The operator has voluntarily chosen to include Odor BMPs in the plan. Voluntary Odor BMPs must meet the same program standards that Required Odor BMPs do for implementation, operation, maintenance, and documentation.
- **Supplemental Odor BMPs** – In accordance with §83.781(e), Supplemental Odor BMPs are implemented in addition to the approved Odor BMPs in the plan and are also associated with plan updates.

NOTE: Odor BMPs must be relevant to the site specific situation and must be maintained for the lifetime of the regulated facility unless otherwise approved.

Level I Odor BMPs to be Implemented

Select each check-box that applies; if more than one category applies, clearly detail the respective Level I Odor BMPs criteria with each respective category. Detail below all Level I Odor BMPs Principles, adapted from the PA Odor BMP Reference List, that are applicable to the site specific factors of this animal operation and the regulated facilities.

None Required

Voluntary Level I Odor BMP:

Required Level I Odor BMP:

Supplemental Level I Odor BMP:

1. Steps taken to reduce dust and feed accumulation in pens, aisles, and on animals.
 - a. Feed Wastage: feed collars will be adjusted to ensure the appropriate flow rate from the drop tube into the feeder. Feeder height will be checked daily and raised as needed to match the height of the birds (usually about every ten days).
2. Ventilation is managed to provide sufficient fresh airflow throughout the facility to keep animals and facility surfaces clean and dry.
 - a. Ventilation Components: ventilation system components, including computer controls, static pressure meters, power winches, and fans will be checked daily for functionality.
3. Manure will be managed to minimize damp, exposed manure that contributes to odor generation.
 - a. Moisture Control: water lines and drinkers will be checked daily for leaks. Repairs will be performed as needed. The height of the nipple waters will be inspected daily and adjusted as needed (every 2-3 days) to ensure birds are reaching up to waters.
 - b. Accumulated Manure: manure scrapers will be run once a day, to scrape accumulated manure to storage below slotted floor.
4. Mortalities will be removed daily and managed appropriately.
 - a. Remove Mortalities: mortalities will be removed daily, and composted in proposed mortality composting facility.
5. Feed nutrients will be matched to animal nutrient requirements to avoid excess nutrient excretion.
 - a. Professional nutritionist formulates diet to match animal nutrient requirements.
6. Managed Manure Storage Facilities to reduce exposed surface area and off – site odor transfer
 - a. Manure storage area cleanliness – a visual inspection of the manure storage area will be completed monthly to ensure all manure is properly stored.
 - b. Reduce liquid manure exposure to air - liquid manure is to be bottom loaded, through gravity flow to the storage structure and will enter the storage from the bottom.

Level II Odor BMPs to be Implemented:

Select each check-box that applies; if more than one category applies, clearly detail the respective Level II Odor BMPs criteria with each respective category. Detail below all Level II Odor BMPs criteria addressing the following:

1. the general construction and implementation criteria
2. the corresponding timeframes of when each Odor BMP will be implemented
3. all operation and maintenance procedures for each Odor BMP along with the corresponding timeframes for carrying out those procedures
4. the lifespan of each Odor BMP.

NOTE: NRCS Conservation Practice Standards and Job Sheets that are in existence for the Level II Odor BMP are encouraged to be used for construction, implementation, and operation and maintenance criteria.

- None Required**
- Voluntary Level II Odor BMP:**
- Required Level II Odor BMP:**
- Supplemental Level II Odor BMP:**

1. Earthen Windbreak Wall: have been proven effective in reducing both downwind dust particle and odor concentration. Serves to increase turbulence and mixing with fresh air to help dilute odorous compounds before they travel downwind from the facility.

Implementation:

- a. Construct earthen bank windbreak wall, height minimum should be as high as the top of ventilation fans. Development for windbreak wall should begin during the excavation of the duck facility to deflect odors from the regulated barn into the upper air current.
- b. Earthen wall embankment will be a 14' high berm placed to deflect exhaust fan emissions. See site map for location and layout.
- c. Erosion will be controlled on each wall by seeding the disturbed areas with hearty grass species.
 - i. Earthen bank wall should be planted with 25 pounds of perennial ryegrass/ tall fescue and 15 pounds of Kentucky bluegrass per acre.
 - ii. Supplemental watering will (as needed) be implemented.
- d. Earthen bank wall will be constructed before regulated barn is built.

Operation & Maintenance:

- a. Maintain vegetation to protect the integrity of the earthen bank to minimize potential soil loss.
- b. Eroded soil from the earthen bank wall will be repaired and reseeded.
- c. Earthen bank wall will be maintained for the lifetime of the regulated barn.
- d. Monthly inspections will be conducted to verify the integrity and to determine if any maintenance activities are needed.

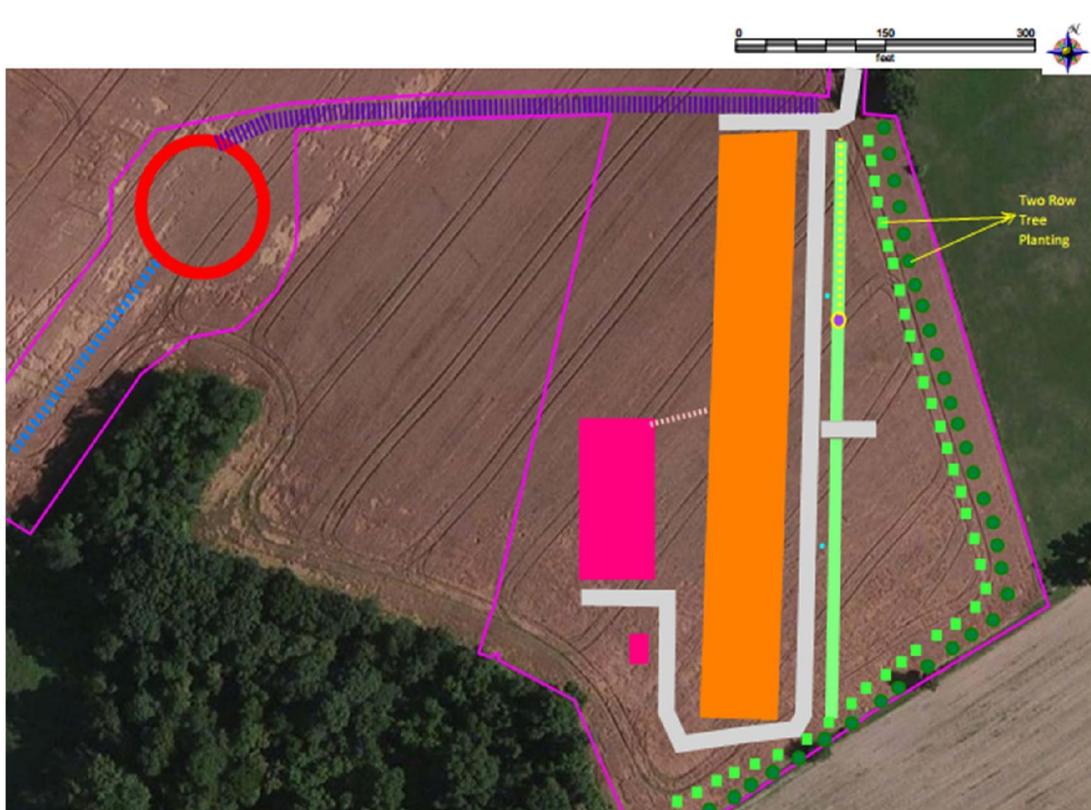
2. Windbreak Shelter Belts: are rows of trees and fast growing vegetation planned near the exhaust stream from livestock facilities. This serves to increase turbulence and mixing with fresh air to help dilute odorous compounds before they travel downwind from the facility, and the foliage on some

species has been shown to absorb certain compounds, including ammonia.

a. *Plant Material:*

Species/ Cultivar	Kind of Stock	Planting Dates	Distance between plants w/in rows	Total Number of plants for the row	Distance between rows
Row 1: Steamco Willow	Rooted Cutting	Spring 2016	6 feet	166	10 feet
Row 2: Steamco Willow	Rooted Cutting	Spring 2016	6 feet	166	N/A

b. *Location and Layout:* Shelterbelt will consist of two rows of plant material. Both rows will consist of Streamco Willows, planted on 6 foot centers.



c. *Site Preparation:* Soil tests will be conducted and soil amendments added as to recommendations. Remove debris and control competing vegetation to allow enough spots or sites for planning or planting equipment.

- d. *Planting Methods*: For bare root stock, plant stock to a depth even with the root collar in holes deep and wide enough to fully extend the roots. Pack the soil firmly around each plant. Cuttings are inserted in moist soil with at least 2 – 3 buds showing above ground.
 - e. *Operation and Maintenance*: Inspect windbreak shelterbelt components weekly and protect from damage so proper function is maintained. Replace dead or dying plants as discovered or if discovered during the non – growing season, replace as soon as conditions permit during the next planting season. Control competing vegetation either mechanically, chemically, or with a mulch bed to allow proper establishment and growth. Install and begin supplemental irrigation for a minimum of two years.
3. *Manure Pit Additives*: manure additives are intended to reduce the production of odorous compounds, usually by enzymatic or bacterial action.
- a. Inhibodor - is a concentrated extract, for use in livestock waste systems to bind ammonia and other noxious gases to reduce odors.
 - b. *Application Rates*:
 - i. Apply Inhibodor at .2oz per Animal Units. With 44,000 ducks, at 3.56 lbs, or 156 Animal Units; 31oz of Inhibodor should be applied at each application.
 - ii. Inhibodor should be applied monthly, or divide equally into application on a two – week basis.
 - iii. Inhibodor should be diluted with 5 -10 gallons of water and add to flush system or distribute over pit surface.
 - c. Should another brand of pit additive be used, application rates and method should change to follow manufacturer's specifications. The plan amendment will be updated to reflect the change in brand.

D. Documentation Requirements

The following information will be documented by the Operator for each Odor BMP to ensure compliance with the plan. Documentation is needed to demonstrate implementation of the plan as well as for corrective actions taken for significant maintenance activities needed to return an Odor BMP back to normal operating parameters.

Level I Odor BMP Documentation Requirements

Select each check-box that applies; if more than one category applies, clearly detail each documentation criterion.

None Required – (**NOTE: Delete the Odor BMP Implementation Commitment Statement and the Level I Maintenance Log**)

Level I Odor BMPs – Odor BMP Implementation Commitment Statement Only

The Operator will annually complete the Odor BMP Implementation Commitment Statement.

Level I Odor BMP Documentation Criteria:

The Operator will annually complete the 'Odor BMP Implementation Commitment Statement'. The Operator will also complete the Level I Odor BMPs Maintenance Log upon any of the following occurrences:

1. Feed and Dust Management – Document occurrences of damage of the feed delivery system, and the corrective actions taken. Document when accumulation of spilled feed was not able to be addressed in a timely manner.
2. Ventilation – Document any occurrences of the system components not working correctly, and the corrective actions taken.
3. Moisture Control – Document any occurrences of damage of the water lines, and corrective action taken. Document any occurrences of damage of manure scrapers, and corrective actions taken.
4. Mortalities – Document any discrepancies with daily disposal, and corrective actions taken.
5. Phase Feeding – Document any discrepancies with the phased feeding requirements, and the corrective actions taken.
6. Manure Storage Facilities – Document any discrepancies with proper manure storage management, and the corrective actions taken.

Level II Odor BMP Documentation Requirements

Select each check-box that applies; if more than one category applies, clearly detail each documentation criterion.

None Required – (**NOTE: Delete the Level II Quarterly Observation Log**)

Level II Odor BMP Documentation Criteria:

The Operator will complete the Level II Odor BMPs Quarterly Observation Log, at least on a quarterly basis, detailing the proper implementation of the Odor BMPs as identified in the Implementation, Operation & Maintenance Schedule. The Operator will also complete the Level II Odor BMPs Quarterly Observation Log upon any of the following occurrences:

1. Earthen Windbreak Wall -
 - a. Documentation will be made if soil erosion has occurred, and the corrective action taken.
 - b. Documentation will be made of monthly inspections to verify the integrity of the wall. Document issues concerning the structural integrity of the wall, and corrective actions taken.
2. Windbreak Shelterbelts –
 - a. Documentation will be made of weekly inspections, identify any damage, and corrective action taken.

b. Documentation will be made if any trees are replaced.

3. Manure Pit Additive –

a. Documentation will be made if pit additive was not applied following manufacture's recommended application rate.

Odor BMP Implementation Commitment Statement

To be completed and signed annually by operators which have a neighboring facility or a public use facility in the evaluation distance area. This form is an attestation of the operator for the daily implementation of the Odor BMPs, and in accordance with §83.791, it is to be kept on site for at least 3 years.

(Copy This Page For Future Use)

OMP Amendment Name: _____ Kimberly Schlappich _____

Level I Odor BMPs Principles

1. Steps were taken to reduce dust and feed accumulation in pens, aisles, and on animals.
2. Ventilation was managed to provide sufficient fresh airflow throughout the facility to keep animals and facility surfaces clean and dry.
3. Manure was managed to minimize damp, exposed manure that contributes to odor generation.
4. Mortalities were removed daily and managed appropriately.
5. Feed nutrients were matched to animal nutrient requirements to avoid excess nutrient excretion.
6. Manage manure storage to reduce exposed surface area and off-site odor transfer.

Odor Management Plan Requirements

In accordance with §§83.762 operator commitment statement), 83.771 (managing odors), 83.781 – 83.783 (Odor BMPs and schedules), 83.791 – 83.792 (documentation requirements) and 83.802 (plan implementation), I affirm that all the information I provided in the odor management plan is accurate to the best of my knowledge.

In order to manage the potential for impacts from the offsite migration of odors associated with the operation, I affirm that I have implemented the specific practices and procedures detailed in the odor management plan Odor BMP Implementation, Operation & Maintenance Schedule (principles identified above) from DATE: _____ to DATE: _____ (CY/ FY, etc.).

I affirm the foregoing to be true and correct, and make these statements subject to the penalties of 18 Pa. C.S. § 4904, relating to unsworn falsification to authorities.

Signature of Operator: _____ *Date:* _____

Name of Operator: _____

Title of Operator: _____

Level I Odor BMPs – Maintenance Log YEAR 2016

(NOTE: The operator will record occurrences of mechanically related maintenance activities or for any corrective actions taken.)

(Copy This Page For Future Use)

<i>List ODOR BMPs</i>	<i>DATE</i>	<i>NOTES</i>

Level II Odor BMPs – Quarterly Observation Log YEAR 2016

(NOTE: The operator will record observations relating to 1) the implementation of each Level II Odor BMP at least on the first day (approximately) of each quarter of the year or in accordance with the Implementation, Operation & Maintenance Schedule, and 2,) for mechanically related maintenance activities, as soon as possible upon the observation that maintenance is needed, or upon each occurrence of any corrective actions taken.)

(Copy This Page For Future Use)

Select Quarter: 1st Quarter (January) 2nd Quarter (April) 3rd Quarter (July) 4th Quarter (October)

LEVEL II ODOR BMP NAME: Earthen Windbreak Wall		
<i>List ACTIVITIES</i>	<i>DATE</i>	<i>NOTES</i>
Monthly Inspection		

Select Quarter: 1st Quarter (January) | 2nd Quarter (April) | 3rd Quarter (July) | 4th Quarter (October)

LEVEL II ODOR BMP NAME: Windbreak Shelterbelt

<i>List ACTIVITIES</i>	<i>DATE</i>	<i>NOTES</i>
Weekly Inspection		
Tree Replacement		

Select Quarter: 1st Quarter (January) | 2nd Quarter (April) | 3rd Quarter (July) | 4th Quarter (October)

LEVEL II ODOR BMP NAME: Pit Additive (Inhibodor)

<i>List ACTIVITIES</i>	<i>DATE</i>	<i>NOTES</i>
Monthly Application		
Application Error		

Appendix 1: Operation Information

Part A: Odor Source Factors

1. **Site Livestock History:** 0

Detail the Maximum AEUs of Livestock on this site (which may also include any animals from regulated facilities) within the past 3 years.

Existing Facilities Description:

NOTE: If the facilities or animal information differ from the most current Nutrient Management Plan, detail the differences in Appendix 5: Supporting Documentation.

Definitions: Existing facilities are those animal housing facilities or manure storage facilities constructed before February 27, 2009, and are not subject to Odor Management program requirements. These are the baseline facilities which were identified in the originally approved OMP.

2. **List the Existing Animal Types:** 0

Existing Animal Numbers: 0

3. **Existing Animal Equivalent Units (AEUs) per Animal Type:** 0

4. **Existing Animal Housing Facility(ies):**

Describe all existing animal housing facilities including their dimensions, capacity and existing Odor BMPs used to address potential impacts.

Animal Housing Facility	Dimensions	Livestock Capacity	Existing Odor BMPs
None			

5. **Existing Manure Storage Facility(ies) and Manure Handling Systems:**

a. Describe all existing manure storage facilities and manure treatment technology facilities, including their dimensions, capacity and existing Odor BMPs used to address potential impacts.

Manure Storage Facility	Dimensions	Usable Capacity	Existing Odor BMPs
None			

b. Provide a narrative description detailing the manure handling systems, including manure storage facilities, manure stacking areas, and manure treatment technology facilities.

None

Currently Regulated Facilities:

Detail the information below for each constructed regulated facility, clearly indicating what was previously approved in the original plan and then separately (copy & paste) for each approved plan amendment.

PreviousPlanApprovalDate: 4-28-2015 PreviousOSI Score: 58.5853125 Currently Regulated AEU's: 148.1

6. Currently regulated animal housing facility(ies): *None Regulated*

a. Population Date(s): Not yet populated *Detail the dates that each regulated animal housing facility was populated.*

b. *Provide a detailed description of all currently regulated animal housing facilities including their dimensions and livestock capacity.*

Animal Housing Facility	Dimensions	Livestock Capacity
None – See Appendix 5		

7. Currently regulated manure storage facility(ies): *None Regulated*

a. Storage Use Date(s): Not yet in use/ constructed *Detail the dates that each regulated animal housing facility was utilized.*

b. *Provide a detailed description of all currently regulated manure storage facilities, manure stacking areas and manure treatment technology facilities including their dimensions and storage capacity.*

Manure Storage Facility	Dimensions	Useable Capacity
None – See Appendix 5		

8. Required Odor BMPs for the currently regulated facility(ies): Yes/ None Required

Detail in the Plan Summary, C. Odor BMP Implementation, Operation & Maintenance Schedule, all Required Odor BMPs from previous approved plans or plan amendments which are still applicable to its associated regulated facility. If specific Odor BMPs that were previously approved no longer apply to this site specific scenario, contact Odor Management program staff to identify and discuss this operational change prior to submitting the plan amendment.

a. Previous Approved Odor BMPs are no longer applicable and are not part of the OMP. Yes/ No
This is only applicable when the Plan Amendment is either 1) changing Odor BMPs and that the new Odor BMPs are detailed in the Plan Summary, or that 2) due to a change from the newest evaluation for the Plan Amendment, the OSI allows for this change in Odor BMP requirement.

Proposed Regulated Facility(ies) Description:

Detail the information below, clearly indicating:

- 1) The animals that will be housed in the proposed animal housing facility(ies), which include expansions onto existing facilities;
- 2) The manure type (animal type detailed in the OSI) that will be stored in the proposed storage facility and identifying the Act 38 Nutrient Management Program requirements that must be followed for the proposed manure storage facility(ies);
- 3) If Voluntary Existing Animal Numbers and AEUs or Transferred Existing AEUs do not apply, state "None", "Zero (0)" or "Not Applicable" for that criterion.

NOTE: The Animal Type associated with the Proposed Facilities must be consistent with the Animal Type detailed in the OSI.

NOTE: If the proposed facilities, animal information, and AEU calculations differ from the most current Nutrient Management Plan (NMP), detail the differences in Appendix 5: Supporting Documentation.

Definitions:

- **Proposed AEUs** are the new additional AEUs associated with the proposed regulated animal housing facility(ies).
- **Voluntary Existing AEUs** are the AEUs associated with the existing animal housing facility(ies).
- **Proposed AEUs and Voluntary Existing AEUs** are used for determining the Odor Site Index evaluation distance area.
- **Transferred Existing AEUs** are existing AEUs on the site that will be transferred into the animal housing facility being evaluated.
- **Total AEUs** are used for determining significant change of the regulated facility(ies); a significant change will require an amendment to the plan. A significant change is defined as a net increase of equal to or greater than 25% in AEUs, as measured from the time of the initial plan approval.

9. (a) Proposed Facility OSI Animal Types: Ducks

Proposed Animal Numbers per animal type: 44,000

Proposed AEUs per animal type: 148.1

(b) Voluntary Existing Animal Types: 0

Voluntary Existing Animal Numbers: 0

Voluntary Existing AEUs per animal type: 0

(c) Regulated AEUs under Previous Plan(s) (Associated with Currently Regulated Facilities): 0 * See Appendix 5

(d) Total AEUs Covered by this Plan: 148.1

(e) Acres for the operation associated with an approved Act 38 NMP or acres utilized for the CAO calculation: 0

(f) Total AEUs/ Acre for the operation: 148.1

NOTE: The AEUs per acre calculation is only used to verify CAO status. AEUs per acre calculation must reflect the calculations in the most current NMP, otherwise explain the difference and submit the calculations in Appendix 5: Supporting Documentation.

(g) Transferred Existing Animal Types: Check only when Applicable

NOTE: Detail the following information in Appendix 5: Supporting Documentation when 0 "Proposed AUEs" are proposed due to transferring existing animals on the site into the animal housing facility being evaluated:

- 1) The OSI Animal Type associated with the Proposed Facilities,
- 2) The numbers of animals transferred, and
- 3) The AEUs. This information will be used for determining a significant change which will require an amendment to the plan.

10. Proposed new or expanded animal housing facility(ies):

Detail all proposed animal housing facilities, or portions thereof, including their dimensions and livestock capacity.

NOTE: If the proposed facilities differ from the most current NMP, detail the differences in Appendix 5: Supporting Documentation.

Animal Housing Facility	<input type="checkbox"/> None Proposed	Dimensions	Livestock Capacity
Duck Facility		600 ft x 63 ft	44,000

11. Proposed new or expanded manure storage facility(ies):

NOTE: If the proposed facilities differ from the most current NMP, detail the differences in Appendix 5: Supporting Documentation.

- (a) *Provide a narrative description detailing all manure handling systems (including all manure storage facilities, manure stacking areas, and manure treatment technology facilities) after the addition of the proposed facilities.*

All manure produced by ducks will be handled as liquid, transferred from the poultry house to the liquid HPDE lined lagoon manure storage. The storage will be emptied both spring and fall, and exported off the farm. Mortality will be composted on site in the proposed mortality composting facility.

- (b) *Detail all proposed manure storage facilities, manure stacking areas, and manure treatment technology facilities.*

NOTE: *If a waiver is required, it must be attached in Appendix 5: Supporting Documentation for the plan to be administratively complete.*

Manure Storage Facility	<input type="checkbox"/> None Proposed	Dimensions	Usable Capacity
HPDE Lagoon		240 ft x 125 ft x 12 ft	1,375,924 gallons
Mortality Composting Shed		15 ft x 30 ft x 5 ft	99 tons

Act 38 NM Program Setback Requirements Verification

NOTE: *When manure storage facilities are proposed, N/A cannot be detailed for both c & d*

- (c) **Existing Operations** Not Applicable.

Select all check-boxes that apply for Existing Operations proposing manure storage facilities.

In accordance with planning provisions of the Commission’s Nutrient Management Program regulations, the proposed manure storage(s) is part of an existing operation (operation that produced livestock or poultry on or before October 1, 1997) and will be located having a minimum setback distance of the following:

- i. 100’ minimum setback distance (in accordance with §83.351(a)(2)(v)(A)-(E)) from wetlands, water bodies and wells (public and private). Yes Not Applicable
- ii. 100’ minimum setback distance (in accordance with §83.351(a)(2)(v)(F)) a from the property line; otherwise an executed Manure Storage Setback Waiver from the Neighboring Landowner, must be attached. Yes Not Applicable
- iii. 200’ minimum setback distance (in accordance with §83.351(a)(2)(v)(G)) from wetlands, water bodies and wells (public and private) for a manure storage facility of 1.5 million gallons or larger capacity or that is located on slopes exceeding 8%. Yes Not Applicable
- iv. 200’ minimum setback distance (in accordance with §83.351(a)(2)(v)(H)) from the property line for a manure storage facility of 1.5 million gallons or larger capacity or that is located on slopes exceeding 8% and the slope is toward the property line; otherwise an executed Manure Storage Setback Waiver from the Neighboring Landowner, must be attached. Yes Not Applicable

- (d) **New Operations/ New Animal Enterprises** Not Applicable.

Select all check-boxes that apply for New Operations/ New Animal Enterprises proposing manure storage facilities.

If the proposed manure storage(s) is part of a new operation (operation that produced livestock or poultry after October 1, 1997), or a new animal enterprise (an existing operation that expanded after October 1, 1997, via producing different livestock or poultry than what was previously produced – see NM Tech Manual, Section III) and in accordance with planning provisions of the Commission’s Nutrient Management Program regulations the proposed storage will be located having a minimum setback distance of the following:

- i. 100’ minimum setback distance (in accordance with §83.351(a)(2)(vi)(A)-(E)) f from wetlands, water bodies and wells (public and private). Yes Not Applicable
- ii. 200’ minimum setback distance (in accordance with §83.351(a)(2)(v)(F)) from the property line; otherwise an executed Manure Storage Setback Waiver from the Neighboring Landowner, must be attached. Yes Not Applicable

- iii. 200' minimum setback distance (in accordance with **§83.351(a)(2)(v)(G)** from wetlands, water bodies and wells (public and private) for a manure storage facility of 1.5 million gallons or larger capacity or that is located on slopes exceeding 8%. Yes Not Applicable
- iv. 300' minimum setback distance (in accordance with **§83.351(a)(2)(v)(H)** from the property line for a manure storage facility of 1.5 million gallons or larger capacity or that is located on slopes exceeding 8% and the slope is toward the property line; otherwise an executed Manure Storage Setback Waiver from the Neighboring Landowner, must be attached. Yes Not Applicable

12. Construction activities of the proposed regulated facilities:

NOTE: Construction activities must be started within 3 years of the plan approval date.

- a. *Detail the proposed construction sequence timeframes for each proposed regulated facility (or portions thereof)* Proposed construction for the duck facility will begin in early fall 2015. Slurry store mortality composting shed will begin in fall 2015.
- b. *Have construction activities started on any of the proposed regulated facilities?* Yes No *If yes, please detail:* Access road to the proposed duck facility has been installed.

Part B: Site Land Use Factors

1) Select the applicable check-box below for each special agricultural land use designation, and

2) Provide written verification in Appendix 5: Supporting Documentation for each agricultural land use designation claimed.

NOTE: Documentation verifying each claimed land use must be attached for the plan to be administratively complete.

Agricultural land use designations applicable to the site being evaluated:

- 1. Agricultural Security Area Yes / No
- 2. Agricultural Zoning Yes / No
- 3. Preserved Farm Yes / No

Part C: Surrounding Area Land Use Factors

NOTE: Detail applicable criteria for 1 and 2 on the Operational Map in Appendix 2.

- 1. Other Livestock Operations (≥ 8 AEUs) within the evaluation distance area Yes / No
If yes, then list the type of operation, the direction (N, S, E, W) and quadrant (distance range from the facility). _____
- 2. Distance to nearest property line measurements:
NOTE: Measured from nearest corner of the proposed animal housing facility and/or manure storage facility to the property line. Measurements must also be detailed on the Operational Map in Appendix 2.
 - a. Animal Housing Facility measurement 75 (ft.) Not Applicable
 - b. Manure Storage Facility measurement 200 (ft.) Not Applicable
- 3. If nearest property (from the nearest property line measurements indicated in “2” above) is less than 300’, is this neighboring property a Preserved Farm? Yes / No

NOTE: Documentation verifying this claimed status must be attached for the plan to be administratively complete.

- (a) *If “Yes” is indicated, detail the name and address in Appendix 5: Supporting Documentation of the nearest neighboring property owner who has a Preserved Farm.*

Act 38 of 2005, Odor Management Plan Amendment
Appendix 2: Operational Maps

Topographic Map

Odor Management Plans must include a topographic map drawn to scale with a map legend, identifying:

- Operation boundaries;
- Location of existing and proposed animal housing and manure storage facilities on the operation;
- Location of operation-related neighboring facilities;
- Location of neighboring facilities (normally occupied homes, active businesses and churches) and public use facilities within the evaluation distance area;
- Local topography (as indicated by the topographic lines);
- Geographic center with concentric circles drawn at 600' intervals for the entire evaluation distance area;
- Identification of the various map quadrants to include North, South, East and West;
- Distance to nearest property line from the nearest facility;
- Road names within the evaluation distance area; and
- All neighboring facilities and public use facilities that are being given credit for the Intervening Topography and Vegetation Factor.

In order to distinguish the following criteria from the other neighboring facilities and public use facilities, the Operational Map and the associated map legend must have separate symbols detailing the following:

- All operation-related neighboring facilities, and
- All neighboring facilities and public use facilities which are being given credit for the Intervening Topography and Vegetation Factor.

NOTE: *The scale chosen must be reasonable and practical for use in evaluating the OMP. For example:*

- *A scale of 1" = 600' is an example of a scale that is reasonable for use in determining evaluation distances, setbacks, etc., but may not be practical for larger evaluation distance areas for fitting the map on one 8 1/2' x 11' sheet of paper.*
- *A scale of 1.37" = 267.5' is an example of a scale that may be practical for fitting on one 8 1/2' x 11' sheet of paper, but in a scale that is not reasonable or very useful.*
- *Maps need to be to a scale that shows sufficient detail to be reasonable and useful. Planners are encouraged to use a scale that can be divided evenly by, or into, 600' by a round whole number*
- *Multiple maps are encouraged to be provided for the purpose of facilitating specific details, i.e. aerial maps, etc.*

Site Map

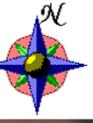
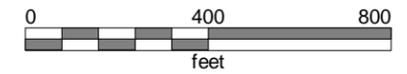
The purpose of the site map is to facilitate the plan review process of identifying specific details about the operation being evaluated. Odor Management Plans must include a site map of the operational related facilities drawn to scale with a map legend, identifying at a minimum the following:

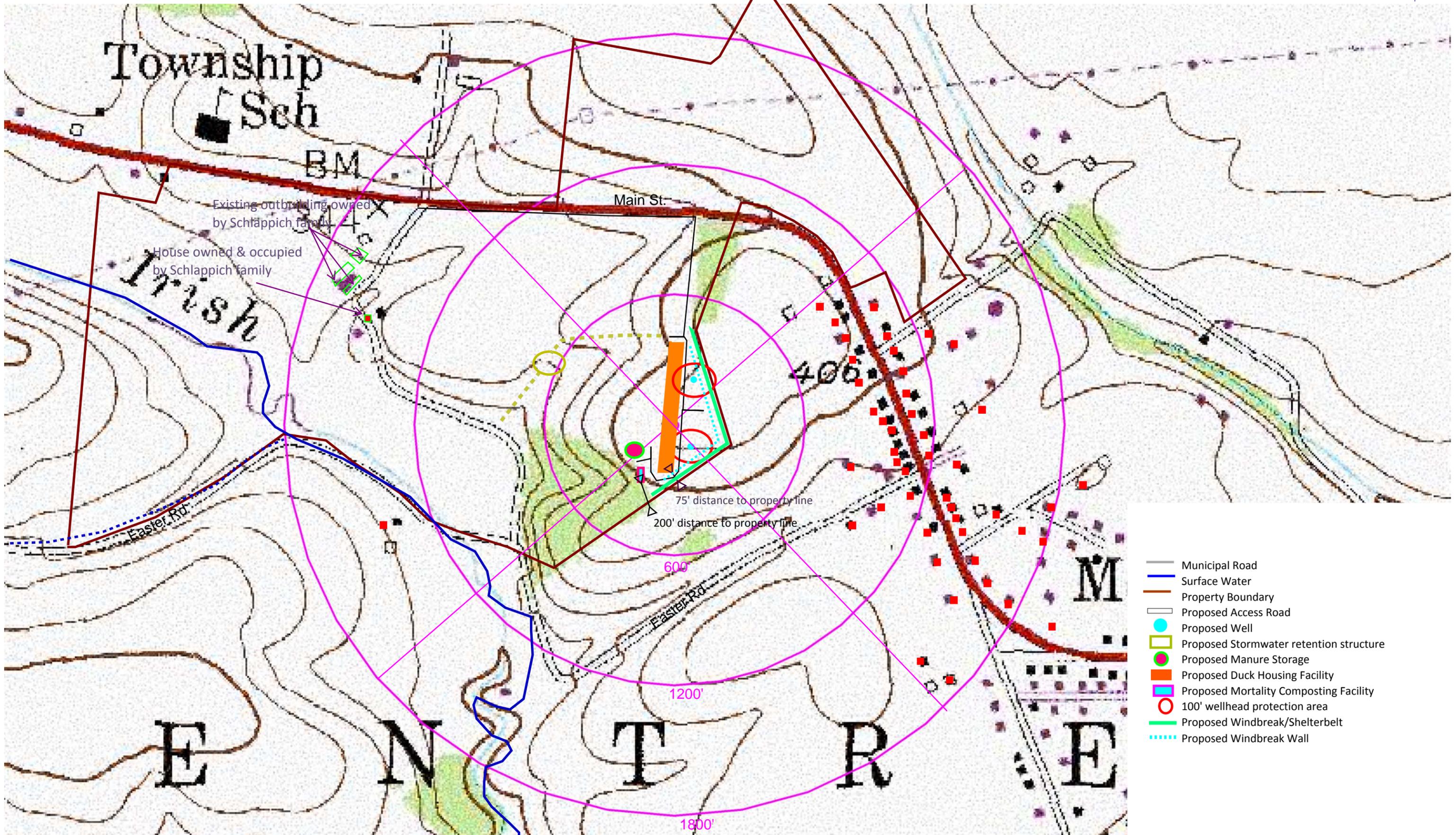
- Operation boundaries;
- Location of existing and proposed animal housing and manure storage facilities on the operation;
- Geographic center with concentric circles drawn at 600' intervals; and
- Distance to nearest property line from the nearest facility

If there are multiple facilities on the site, detail the name of each of the facilities as per what the operator refers to them as, i.e. Layer #1 – Layer #5, mortality composting facility, etc.

If the evaluation distance area is small enough, i.e. a 1200' evaluation distance area, to clearly identify the specific details required, then a separate map will not be required.

Kim Schlappich





Existing outbuilding owned by Schlappich family

House owned & occupied by Schlappich family

Main St.

Easter Rd.

75' distance to property line

200' distance to property line

- Municipal Road
- Surface Water
- Property Boundary
- Proposed Access Road
- Proposed Well
- Proposed Stormwater retention structure
- Proposed Manure Storage
- Proposed Duck Housing Facility
- Proposed Mortality Composting Facility
- 100' wellhead protection area
- Proposed Windbreak/Shelterbelt
- Proposed Windbreak Wall

Appendix 3: Plan Evaluation – OSI

Act 38 Odor Management Plan - Odor Site Index

Operator Name	Kim Schlappich		
Planner Name	Sarah Crooke		
Type of Operation	Ducks		
Voluntary Existing AEUs	0		
Proposed AEUs	148.1		
Previously Approved AEUs	0		
AEUs Covered by OMP	148.1		
Evaluation Distance	1800'		
Part A: Odor Source Factors			OSI Score
Facility Size Covered by OMP	148.1		2
Site Livestock History	Zero AEUs _12pts		12
Manure Handling System	All - Outdoor uncovered liquid, no crust expected_ 16pts		16
			30.00
Part B: Site Land Use			
Ag Security Zone	Yes (-5 pct)		-13.625
Ag Zoning	Yes (-10 pct)		-27.25
Preserved Farm	Yes (-20 pct)		-54.5
			-95.38
Part C: Surrounding Land Use			
Other Livestock >8 AEU in evaluation distance	Zero (5pts)		5.00
Distance to Nearest Property Line	<150' (10 pts)		10.00
If nearest property is <300', is it preserved farmland	No (0 pts)		0.00
Neighboring Homes			221.50
Public Use Facilities			6.00
			242.50
Species Adjustment Factor	Swine,duck,veal (.15)		203.69375
Final OSI Score			203.69375
Level 2 BMPs Required			

Act 38 Odor Management Plan - Odor Site Index

East Quadrant	<600	600-1200	1200-1800	1800-2400	2400-3000	
# Neighboring Facilities	0	23	20	Select from List	Select from List	
Facility Value	15	7	3	0	0	
Home Shielding	Select from list	600-1200 None (1)	1200-1800 None (1)	Select from list	Select from list	Total Facilities 221.0
# Public Use Facilities	0	0	0			Total Public 0.0
Public Use Value	40	20	10	5	3	
Public Use Shielding	Select from list	Select from list	Select from list	Select from list	Select from list	Total East 221.0
South Quadrant	<600	600-1200	1200-1800	1800-2400	2400-3000	
# Neighboring Facilities	0	0	0	Select from List	Select from List	
Facility Value	10	5	2	0	0	
Home Shielding	Select from list	600-1200 None (1)	Select from list	Select from list	Select from list	Total Facilities 0.0
# Public Use Facilities	0	0	0			Total Public 0.0
Public Use Value	30	15	7	4	2	
Public Use Shielding	Select from list	Select from list	Select from list	Select from list	Select from list	Total South 0.0
North Quadrant	<600	600-1200	1200-1800	1800-2400	2400-3000	
# Neighboring Facilities	0	0	0	Select from List	Select from List	
Facility Value	6	3	0.5	0	0	
Home Shielding	Select from list	600-1200 None (1)	1200-1800 All (.25)	Select from list	Select from list	Total Facilities 0.0
# Public Use Facilities	0	0	1			Total Public 6.0
Public Use Value	25	13	6	3	1	
Public Use Shielding	Select from list	Select from list	1200-1800 None (1)	Select from list	Select from list	Total North 6.0
West Quadrant	<600	600-1200	1200-1800	1800-2400	2400-3000	
# Neighboring Facilities	0	0	1	Select from list	Select from list	
Facility Value	6	3	0.5	0	0	
Home Shielding	Select from list	Select From List	1200-1800 None (1)	Select from list	Select from list	Total Facilities 0.5
# Public Use Facilities	0	0	0			Total Public 0.0
Public Use Value	25	13	6	3	1	
Public Use Shielding	Select from list	Select from list	Select from list	Select from list	Select from list	Total West 0.5
						Grand Total 227.5

Appendix 4: Biosecurity

Biosecurity Protocol Contact Information

Detail the point of contact for information on this operation's biosecurity protocols:

Name:	<u>Kimberly Schlappich</u>	Phone:	<u>484.250.6525</u>
E-mail:	<u>-----</u>	Relationship:	<u>Owner</u>

Appendix 5: Supporting Documentation

This section is reserved for the plan writer when developing this plan to have a dedicated area to include supporting documentation such as for agricultural land use designation verification, Nutrient Management program setback waiver verification, AEU calculation verification when no NMP is available, etc.

Provide a heading for each topic discussed in this Appendix.

Proposed vs. Currently Regulated

Kimberly Schlappich’s Odor Management Plan for 44,000 proposed ducks, 148.1 AEUs, was approved on April 28, 2015, for level 1 BMPs. The OMP regulated a proposed 600 ft x 63 ft house, a 76 ft x 23 ft Slurry Store, and a 15 ft x 30 ft x 5 ft mortality composting facility. Since the approval, the original location of the proposed duck house and manure storage facilities moved to the eastern edge of the property. Other than the access road, construction for the duck facilities have not yet begun. This “Amendment” OMP list the duck facilities as “proposed” because construction for the manure storages and duck house has not begun, and no changes were made to the animal numbers or building dimensions.

Berks County Townships with Agricultural Security Areas

Albany	Greenwich	North Heidelberg	South Heidelberg
Amity	Heidelberg	Oley	Spring
Bern	Hereford	Penn	Tilden
Bethel	Jefferson	Perry	Tulpehocken
Brecknock	Longswamp	Pike	Union
Caernarvon	Lower Heidelberg	Richmond	Upper Bern
Centre	Maidencreek	Robeson	Upper Tulpehocken
Colebrookdale	Marion	Rockland	Washington
District	Maxatawny	Ruscombmanor	Windsor
Douglass			

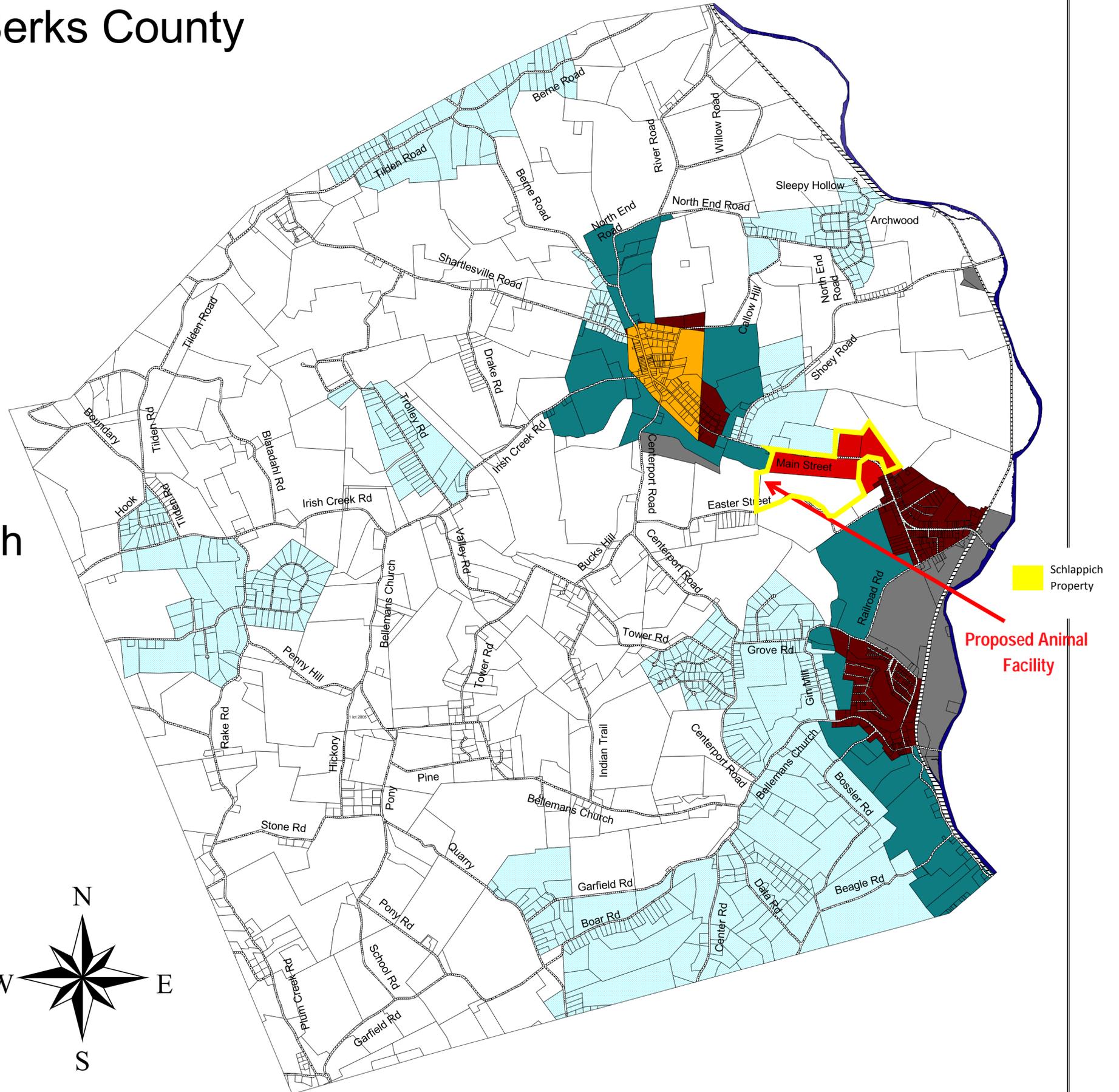
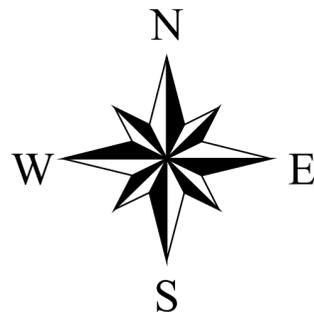
Centre Township, Berks County Pennsylvania

Official Zoning Map
Adopted 10/11/04
Effective 11/10/04

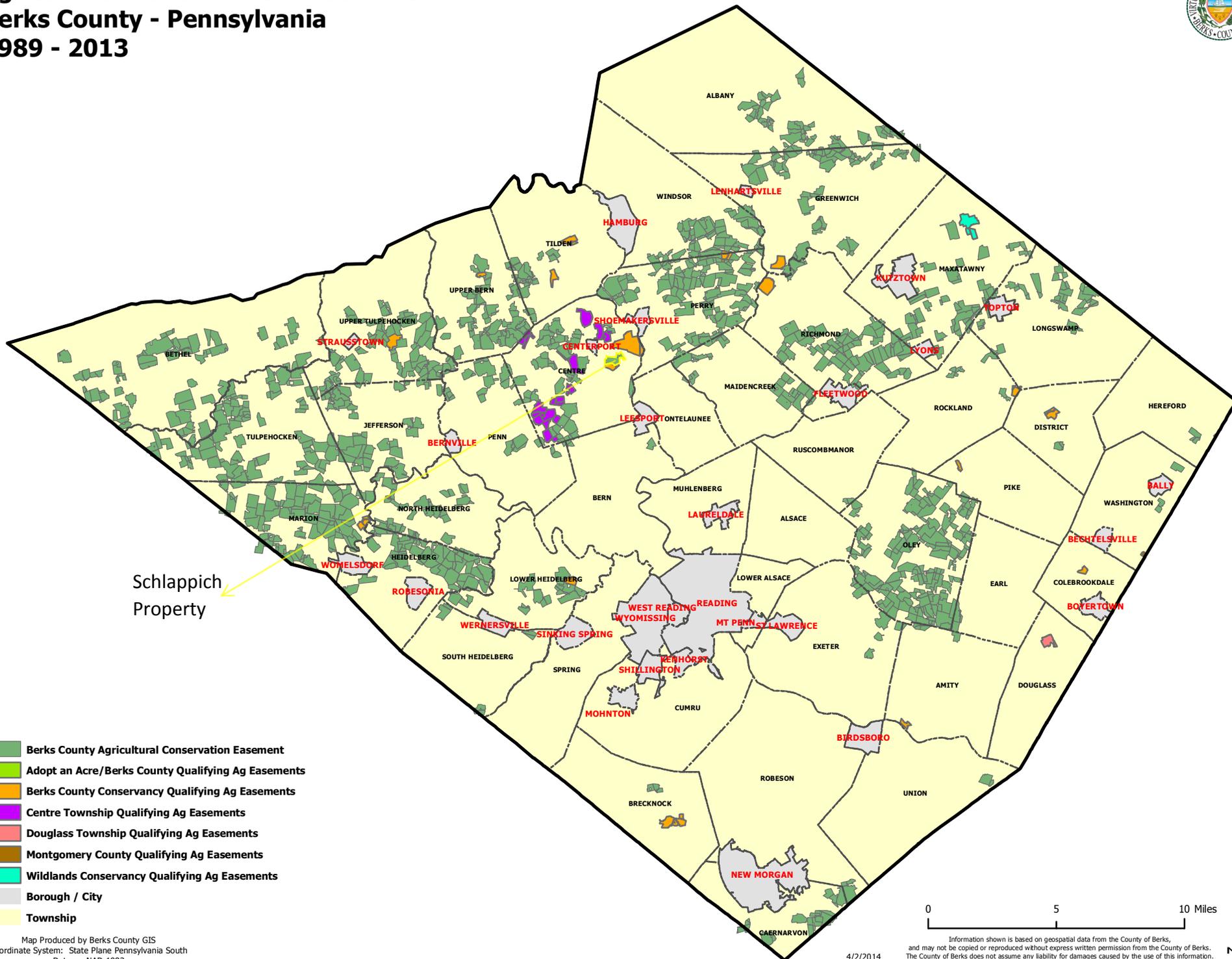
 Centerport Borough

Zoning Districts

-  A-P
-  B/VC
-  LI
-  PC-O
-  R-1
-  R-2



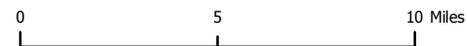
Agricultural Conservation Easements Berks County - Pennsylvania 1989 - 2013



Schlappich
Property

- Berks County Agricultural Conservation Easement
- Adopt an Acre/Berks County Qualifying Ag Easements
- Berks County Conservancy Qualifying Ag Easements
- Centre Township Qualifying Ag Easements
- Douglass Township Qualifying Ag Easements
- Montgomery County Qualifying Ag Easements
- Wildlands Conservancy Qualifying Ag Easements
- Borough / City
- Township

Map Produced by Berks County GIS
Coordinate System: State Plane Pennsylvania South
Datum: NAD 1983



4/2/2014

Information shown is based on geospatial data from the County of Berks, and may not be copied or reproduced without express written permission from the County of Berks. The County of Berks does not assume any liability for damages caused by the use of this information.



Land Preservation Map

ENTERPORT

TRE



Schlappich Property



**COMMONWEALTH OF PENNSYLVANIA
STATE CONSERVATION COMMISSION**

DATE: October 27, 2015

TO: Members
State Conservation Commission

FROM: Karl J. Dymond, Coordinator
State Conservation Commission *KJ Dymond*

THROUGH: Karl G. Brown, Executive Secretary
State Conservation Commission

SUBJECT: Odor Management Plan Amendment "A" Review
Kimberly Schlappich, Berks County

Action Requested

Action on the proposed Kimberly Schlappich duck operation odor management plan (OMP) Amendment "A". This farm is located at 1359 Main Street, Mohrsville, PA 19541; Centre Township, Berks County.

Background

I have completed the required review of the subject odor management plan (plan amendment) listed above. Final corrections to the plan amendment were received in the Commission office on October 27, 2015. The plan amendment is considered to be in its final form for consideration of action.

The operation described in this plan is considered the following designations:

- A Concentrated Animal Operation (CAO) under the PA Nutrient and Odor Management Act
- A Voluntary Agricultural Operation (VAO) under the PA Nutrient and Odor Management Act
- A Concentrated Animal Feeding Operation (CAFO) under the Department of Environmental Protection Chapter 92 National Pollution Discharge Elimination System permitting, monitoring and compliance program

A brief description of the operation, concluding with the staff recommendation, is attached. Also attached is a copy of the complete odor management plan amendment for the operation.

Farm Description

The Kimberly Schlappich agricultural operation is a proposed duck operation. Special agricultural land-use designations for this operation include the following:

- Agricultural Security Area.
- Agricultural Zoning.
- Preserved Farm status under Pennsylvania’s Farmland Preservation Program.
- This operation does not meet any special agricultural land-use designations.

The distance to the nearest property line is proposed to be 75 feet from the duck barn and 200 feet from the mortality composting facility.

There are not any ‘Other Livestock Operations’ with animal numbers equal to or greater than 8 AEUs located within the ‘Evaluation Distance Area’ of this plan.

The surrounding land use for this area is rural, including the predominant terrain features of long rolling hills, almost all of which are actively cropped. The area outside of the evaluation distance area (within the general area) is heavy in agriculture; dairy is the predominant species, but there are confinement swine and poultry operations as well.

Assessment

Amendment Changes:

The original OMP for this operation was approved on April 27, 2015, for the proposed regulated facilities (duck barn and liquid manure storage facility); however, no construction activities have yet occurred on them.

The April 27, 2015, approved plan proposed to locate the duck operation facilities on the operator’s most western portion of their property; the Odor Site Index (OSI) score was 58.6, so the plan (in accordance with Commission policy) was approved by the Commission’s Executive Secretary.

This amendment is for the new proposed location of these proposed regulated facilities. According to the on-site meeting that program staff had with the operator and the plan writer, the operator could not obtain an NPDES permit for this proposed duck operation at the location which was originally approved in the OMP, and thus the plan amendment is for the new proposed location. The new location is on the operator’s most eastern portion of their property; the OSI score is now over 100 (203.7 score), and thus the full Commission must act on this plan which requires Level II Odor BMPs.

Animal Housing Facilities:

Existing Facilities – There are not any existing animal housing facilities.

Currently Regulated Facilities – Since the duck barn from the April 27, 2015, approved plan has not yet been constructed, it is still considered a Proposed Facility instead of a Currently Regulated Facility.

Proposed Regulated Facilities – This plan amendment proposes the expansion of the operation with 44,000 ducks (148.1 AEUs) in the proposed animal housing facility (Duck Barn).

Manure Storage Facilities:

Existing Facilities – This plan amendment does not include any existing manure storage facilities on the operation.

Currently Regulated Facilities – Since the liquid manure storage facility from the April 27, 2015, approved plan has not yet been constructed, it is still considered a Proposed Facility instead of a Currently Regulated Facility.

Proposed Regulated Facilities – This plan amendment proposes the expansion of the operation to include a proposed liquid Manure Storage Facility. A property line setback waiver is not required to meet the Nutrient Management Program regulations.

Odor Site Index

On October 21, 2015, I performed a site assessment of the surrounding houses and businesses in the ‘Evaluation Distance Area’ to confirm the buildings identified on the plan map.

The confirmed Odor Site Index value for this proposed duck operation indicates a high potential for impacts with a score of 203.7. Due to the high potential for impacts, the appropriate Level I Odor BMPs for a duck operation are required and are properly identified in the plan. The proposed plan provides adequate detail and direction for facilitating the operator’s Implementation and Operation & Maintenance of these required Odor BMPs, as well as the necessary documentation needed to demonstrate compliance with the plan and regulations.

Also due to the high potential for impacts, one or more specialized Level II Odor BMPs are required, in addition to the required Level I Odor BMPs.

Proposed Level II Odor BMPs:

1. Earthen Windbreak Wall – Due to the topography change from the excavation process, an earthen Windbreak Wall will be created prior to the construction of the proposed regulated facilities. It will be approximately 14 feet high and will be located along the southeast property lines, in between the existing forested areas.
2. Windbreak Shelterbelt – The Windbreak Shelterbelt will be located on top of the earthen Windbreak Wall, along the southeast property lines, in between the existing forested areas; this will serve to increase the efficiency and effectiveness of these two symbiotic Odor BMPs, as well as augmenting the existing forested areas to the north and to the southwest of the proposed facilities.



**COMMONWEALTH OF PENNSYLVANIA
STATE CONSERVATION COMMISSION**

DATE: November 3, 2015 **Agenda Item** **B.4.b**

TO: Karl G. Brown, Executive Secretary
State Conservation Commission

FROM: Mike Brubaker
Nutrient Management Regional Program Coordinator

SUBJECT: Nutrient Management Plan Review, and Requested Action

Action Requested

Action is requested on the Hillandale Gettysburg, LP Bailey Farms, Site 1 & 2 (Hillandale-Bailey Farms) Nutrient Management Plan for their Concentrated Animal Operation / Concentrated Animal Feeding Operation (CAO / CAFO) located in Spring Grove, York County.

Background

I have finalized the required review of the subject Nutrient Management Plan (NMP, or plan) listed above. Final corrections to the plan were received at the State Conservation Commission's (SCC) Harrisburg office on November 2, 2015. As of that date, the plan was considered to be in its final form. The operation, is considered to be both a Concentrated Animal Operation (CAO) under the PA Nutrient and Odor Management Act (Act 38 of 2005), and a Concentrated Animal Feeding Operation (CAFO) under DEP's Chapter 92 Program.

The Hillandale-Bailey Farm NMP had previously been submitted to the York County Conservation District, and approved June 11, 2015. The plan included a sizable proposed expansion to the current operation. On July 27, 2015 the plan was formally appealed by a citizens group, primarily under concerns of the proposed expansion of the facility. At this point, SCC staff offered (and YCCD agreed) to take over the review of the NMP as it worked through the appeal process. Later Hillandale-Bailey Farms pulled the plan and the YCCD rescinded their approval of the plan. The NMP was reworked, and resubmitted August 25, 2015, this time directly to the SCC. SCC staff worked with Hillandale-Bailey Farms' planner (Corey Grove, Team Ag Inc.) and consulted with Jim Bailey (current Farm Manager and previous owner) and the YCCD to address concerns brought up by the appeal. After corrections were made to the August 25, 2015 re-submitted plan, the final form plan was received at the Harrisburg SCC office November 2, 2015.

A brief description of the operation, including my staff recommendation, is attached. Also attached is a copy of the complete Nutrient Management Plan for the operation.

Thank you for considering this plan for Commission action.

Farm Description

The Hillandale-Bailey Farms CAO / CAFO consists of 1.28 million existing layers, housed in seven barns, with a proposed expansion of 2 million additional standard layers in four new barns, and 60,500 cage-free layers housed in another new barn. The proposed expansion will be adding one new cage-free barn to the existing site (site 1), and four new proposed standard layer barns (that will make up a separate site (Site 2)) located on the opposite side of the property. Combined, the total AEU's for the operation is 10625.85 AEU's. Although Hillandale-Bailey Farms property includes a total of 282 acres, with no cropland or pasture acres under their management control, their AEU's / acre is also 10625.85.

Two of the existing layer barns are traditional high-rise layer houses, with under the barn manure storage. The remaining barns, including the five new proposed barns, are either cage-free layer barns, of belted systems, each producing a very dry manure. Currently Site 1 egg wash water is stored in 6 prefab tanks, and an under-the-barn pit. Proposed Site 2 includes a propose egg wash water lagoon.

All of the manure and egg wash water produced by Hillandale-Bailey Farms will be exported. Approximately 650 tons of the layer manure, and all 3,028,159 gallons of the egg wash water, will be exported to the 314 acres of cropland under the management control of Jim Bailey, including the roughly 80 cropland acres owned by Hillandale-Bailey Farms that Mr. Bailey crops. 16,000 tons of manure is planned to be exported to Maryland by way of a certified manure broker, and the remaining 32,800 tons that is planned to be applied to Pennsylvania farms by way of a second certified manure broker. The certified brokers credentials have been verified, and the Maryland Department of Agriculture has been consulted as part of the review process.

None of the acres associated with the Hillandale-Bailey Farms' operation drain into DEP designated special protection waters. All of the water from the operation drains to the Codorus Creek.

No Critical storm water runoff, or manure management problems were observed. Jim Bailey (current Farm Manager and previous owner) has a history of working with the York County Conservation District. BMPs located on properties Mr. Bailey farms were observed to being maintained as designed. No additional BMPs are planned for the Hillandale-Bailey Farm operation, other than those that may be part of the E&S plan and the construction phase of the proposed project. I completed the required onsite inspection of the operation on October 6, 2015, concurring with the plan that no additional BMPs are necessary.

Based on my review, the NMP developed for Hillandale-Bailey Farms meets the requirements of the PA Act 38 Nutrient Management Regulations, and I therefore recommend Commission approval.

Appendix 1

Nutrient Management Plan Agreement & Responsibilities

Plan Implementation Requirements

This nutrient management plan has been developed to meet the requirements of the following programs:

- Checkboxes for Pennsylvania Act 38 of 2005, Pennsylvania CAFO, NRCS (590 and CNMP), and Other program.

Plans developed under these programs are required to be implemented as approved in order to maintain compliance with the specific law or program.

The nutrient management plan has been developed as a: (check one)

- Checkboxes for 1-Year Plan and 3-Year Plan with dates and completion notes.

Records required to be maintained include the following:

- Numbered list of 8 record-keeping requirements including crop yields, manure application, soil tests, etc.

The following has been confirmed:

- Checkboxes for Verification of Existing Site Specific Emergency Response Plan, notification of owners, and No rented/leased lands.

Specialist Signature

I affirm that the information contained in this nutrient management plan is true, accurate and complete to the best of my knowledge and belief...

Specialist Signature [Handwritten Signature]

Date 10/27/15

Operator Agreement

I affirm that all information provided in this nutrient management plan is true, accurate and complete to the best of my knowledge and belief...

Operator's Signature [Handwritten Signature]

Date 11-2-15

Operator's Title Farm Manager

Nutrient Management Plan

For Crop Years(s)
2016-2018

Prepared for

**Hillandale Gettysburg, LP
Bailey Farms, Site 1 & 2**

Contact: Jim Bailey Farm Manager
717-299-2593

Site 1
2820 Daron Road
Spring Grove, PA 17362

Site 2
Snyder Mill Road
Spring Grove, PA 17362

Prepared by

**Corey Grove
Certification #1786**



**120 Lake Street
Ephrata, PA 17522
717-721-6795**

Date of Plan Submission

Date(s) of Plan Update Submissions

(updates to approved plan not requiring board action)

Table of Contents

Nutrient Management Plan Summary

 Nutrient Management Plan Summary Notes

 Additional Nutrient Management Plan Requirements

 Operator Management Map

Appendix 1: Nutrient Management Plan Agreement & Responsibilities

Appendix 2: Operation Information

Appendix 3: Manure Group Information

Appendix 4: Crop and Manure Management Information

Appendix 5: Phosphorus Index

Appendix 6: Manure Management

Appendix 7: Stormwater Control

Appendix 8: Importer/Broker Agreements & Nutrient Balance Sheets

Appendix 9: Operation Maps

 Topographic Map

 Soils Map

Appendix 10: Supporting Information and Documentation

 Rainfall Additions Worksheet

Nutrient Management Plan Summary

Total acres reported in NMP Summary: _____

Crop Year(s) 2016-2018

Whole Farm Note: No cropland is associated with this operation

CMU/Field ID	Acres	Crop	Manure Group	Application Season	Application Management	Planned Manure Rate ¹	Starter/Other Fertilizer (lb/A)			Supplemental Fertilizer (lb/A)			Nutrient Balance (lb/A) ²			Notes (Select "Yes")
							N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O	
N/A	N/A		No manure										#N/A	#####	#####	

¹ See rate calibration table (Nutrient Management Plan Summary Notes).

² Positive numbers = nutrient deficit; Negative numbers = nutrient excess

Nutrient Management Plan Summary Notes

CMU/Field ID	2016-2018	Notes
--------------	-----------	-------

Manure Spreader Calibration Notes

Manure Application Rate	Manure Spreader Used	Spreader Settings	Tractor Used (if applicable)	Tractor Settings (speed, gear, rpm, pto, etc.)
-------------------------	----------------------	-------------------	------------------------------	--

Additional Nutrient Management Plan Requirements

Manure Management and Stormwater BMP Implementation Summary

¹ - If applicable, enter USDA-NRCS Practice Code. For additional BMPs, enter the BMP description in the first blank cell.

Best Management Practice	NRCS Practice Code ¹	BMP Location	Implementation Season & Year
None			

In-Field Manure Stacking Procedures

Manure must be applied to the field within 120 days of stacking or the stacks must be covered. Stacks must be implemented and maintained according to sound BMPs, addressing concerns such as soil type, soil slope, shape of the pile, setbacks, and rotation of piles.

None

Additional CAFO Requirements

In-field stacking criteria, winter storage requirements, and other issues identified by DEP's review of the nutrient management plan.

Winter liquid storage capacity- Site 1: 76 days of egg wash water = 223,523 gal/7.48=29,882cuft/ 16,728cuft per ft of storage= 1.8' + .5' freeboard = 2.3' of storage needed. Site 2: Minimum vertical distance from top of the proposed egg wash water lagoon level on Dec 15th is 6.7ft.

Proposed Manure Storage Description

Type, dimensions, volume, freeboard and location on map.

At the site 1 a new free range layer house is being proposed that will have a 73' x 109' x 22' manure stacking facility located at the one end that will hold ~ 170,054 cuft. A new layer site, site 2, is being proposed where 4 new layer houses will be built, each having a 103' x 156' x 22' roofed manure stacking facilities located at the end of the layer house that will hold ~ 353,496 cuft each. A 150' x 225' x 13.5' egg wash water pond is also being proposed that will hold 2,751,705 gallons.

Description of Planned Alternative Manure Technology Practices

Type of practice, volume of manure addressed, and result of practice.

None

Exported Manure Summary

Summarize in a short paragraph the arrangements proposed for the manure to be exported from the operation. This information is described in more detail in Appendix 8 of this plan.

Manure is exported to Jim Bailey and Chad Markle (a manure broker) and Eddy Mehring (an out of state manure broker).

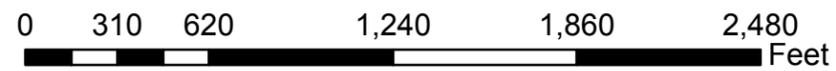
Operator Management Map

Three types of maps are required for an Act 38 Nutrient Management Plan: 1) Topographic Map, 2) Soils Map, and 3) Operator Management Map. The **Operator Management Map** is to be included here in the Nutrient Management Plan Summary and must include field identification, acreage and boundaries, manure application setback areas and buffers and associated landscape features (streams and other water bodies, sinkholes and active water wells), location of existing and proposed structural BMPs (including manure storage facilities), location of existing or proposed emergency manure stacking areas and in-field manure stacking areas, and road names adjacent to and within the operation. All features on the map must be clearly identified and include a legend for setback areas and other features. The Topographic Map and Soils Map must be included in Appendix 9.

Hillandale Gettysburg, LP- Bailey Farms Map



- Legend**
- Local Roads
 - Hillandale_Fields
 - AppSetback100ft
 - FarmBoundary
 - WaterBody
 - WaterLine
 - GrassedWaterways
 - Wells
 - ⬮ NeighboringDwellings_Wells
 - ExistingBarns
 - ProposedBarns
 - Proposed Egg Wash Water Lagoon
 - Buildings
 - ExistingManureStorage
 - ProposedManureStorage
 - Feed Mill
 - Egg Wash Water Tanks
 - Inlets_Risers
 - Sediment Basin
 - Terraces
 - UndergroundOutlet



Operation Information

Operation Description

Animal types and numbers; cropland, hayland and pastureland acreage; farmstead acreage; crop rotation (crops, sequence of crops, and number of years for each crop); manure group management, including atypical manure (contributing animal groups, collection, storage and handling procedures); mortality composting management.

This layer operation consists of 1.28 million total birds, housed in total of 7 barns. Barns 1,2,4, & 5 are belted house systems with manure stacking facilities at the end of each barn. Barns 3 & 6 are high rise layer houses the manure being stored beneath the layers. Barn 7 is an organic free range layer house with manure stacking facilities at the end of the barn. Egg wash water is stored in a concrete storage under layer house 7 along with 3 underground tanks with 3 settling tanks noted on the map at the rear of layer houses 1 & 2. Mortalities are picked up on a daily basis for rendering. A new free range layer house is being proposed that will hold an additional 60,500 birds. The new layer house will have a 73' x 109' roofed manure stacking facility. A new layer facility is also being proposed at a new site contiguous to the exiting site where 4 layer houses that will hold an additional 2 million birds is being planned. Each of the 4 houses will be belted houses with roofed 103' x 156' manure stacking facilities at the end of each house. An egg wash water pond is also being proposed. Hillandale- Bailey Farms 81.6 acres of cropland that they lease out to Jim Bailey who has management control of the cropland. The farm encompasses 282.1ac

County(s)

York

Name of Receiving Stream(s)/Watershed(s)

Codorus Creek

Notation of Special Protection Waters

None

Operation Acres

Total Acres: 282.1

Total Acres Available For Nutrient Application Under Operator's Control

Owned: 1

Rented: 0

Names & Addresses of Owners of Rented or Leased Land

None

Animal Equivalent Units: 10625.85

Animal Equivalent Units Per Acre: 10625.85

Type of storage, dimensions, useable capacity, freeboard, top or bottom loaded, dimensions and description of contributing runoff area, description of wastewater additions, types and amounts of bedding.

Manure Storage	Dimensions	Usable Capacity	Freeboard	Loading	Bedding	Runoff	Wastewater
End of Layer House 1, 2, & 4	57ft x 160ft	182,400cuft	N/A	N/A	N/A	N/A	N/A
End of Layer House 5	96ft x 140ft	295,680cuft	N/A	N/A	N/A	N/A	N/A
End of Layer House 7	40ft x 80ft	70,400 cuft	N/A	N/A	N/A	N/A	N/A
Under Layer House 3	50ft x 520ft x 4ft	104,000 cuft	N/A	N/A	N/A	N/A	N/A
Under Layer House 6	110ft x 600ft x 4ft	264,400 cuft	N/A	N/A	N/A	N/A	N/A
Egg Wash Tank	3 x 1,500gal	4,500gal	0.5ft	Top	None	None	3,000gpd
Egg Wash Tank	Prefab Steel	20,000gal	0.5ft	Top	None	None	3,000gpd
Egg Wash Tank	Prefab Steel	15,000gal	0.5ft	Top	None	None	3,000gpd
Egg Wash Tank	Prefab Steel	10,000gal	0.5ft	Top	None	None	3,000gpd
Egg Wash Tank Under Layer House 7	41ft x 408ft x 6ft	688,000gal	0.5ft	Top	None	None	3,000gpd

Manure Application Equipment Capacity & Practical Application Rates

Description of application equipment, practical application rates based on calibration and calibration method used, the data recorded during equipment calibration is to be retained on the farm.

On farm/Custom	N/A						
Spreader Type/Description	N/A						
Spreader Capacity	N/A						
Practical Application Rates	N/A						
Calibration Method	N/A						

Appendix 3

Manure Group Information
 Select "Calculated or Records" to enter Manure Group info.

Manure Group Identification	Standard Layer Manure- Site 1		Free Range Layer Manure- Site1		Egg Wash Water- Site 1		Layer Manure- Site 2		Egg Wash Water- Site 2	
Manure Report Date <small>(note if averaging several reports)</small>	8/28/14 avg		8/28/14 avg		January 6, 2015		8/28/14 avg		January 6, 2015	
Laboratory Name	agri-Analysis		agri-Analysis		LABS inc		agri-Analysis		LABS inc	
Manure Type	Poultry		Poultry		Poultry		Poultry		Poultry	
Manure Unit <small>(lbs/ton or 1000 gal)</small>	lb/ton		lb/ton		lb/1000 gal		lb/ton		lb/1000 gal	
Total Nitrogen (N) <small>(lbs/ton or 1000 gal)</small>	42.93		51.87		0.32		42.93		0.32	
Ammonium N (NH ₄ -N) <small>(lbs/ton or 1000 gal)</small>										
Total Organic N <small>(lbs/ton or 1000 gal)</small>										
Total Phosphate (P ₂ O ₅) <small>(lbs/ton or 1000 gal)</small>	47.12		48.15		2.9		47.12		2.9	
Total Potash (K ₂ O) <small>(lbs/ton or 1000 gal)</small>	40.78		54.6		3.5		40.78		3.5	
Percent Solids	58		54.9		93		58		93	
PSC Value <small>(Enter analytical or book value)</small>	0.8		0.8		0.8		0.8		0.8	
Inventory Method	Records		Records		Records		Calculated		Records	
	Collected Calc.	Uncollected Calc.	Collected Calc.	Uncollected Calc.	Collected Calc.	Uncollected Calc.	Collected Calc.	Uncollected Calc.	Collected Calc.	Uncollected Calc.
Manure Group Identification	Standard Layer Manure Site 1		Free Range Layer Manure- Site1		Egg Wash Water- Site 1		Layer Manure- Site 2		Egg Wash Water- Site 2	
Description: Site & Season Applied	Annual- Site 1 Standard layer Manure Storages		Annual- Site 1 Free Range Manure Storages		Annual- Site 1 Egg Wash Water Storage		Annual- Site 2 Layer Manure Storages		Annual- Site 2 Egg Wash Water	
CALCULATED: Total Manure Collected Per Manure Group							29894			
Unit	Tons		Tons		Gallons		Tons		Gallons	
RECORDS: Total Manure Collected Per Manure Group	16621		2098		1124320				1903839	
Unit	Tons		Tons		Gallons				Gallons	
	Collected	Uncollected	Collected	Uncollected	Collected	Uncollected	Collected	Uncollected	Collected	Uncollected
Manure Used On-Farm	0		0		0		0		0	
Units	Tons		Tons		Gallons		Tons		Gallons	
Manure Allocation Balance	16621		2098		1124320		29894		1903839	
Units	Tons		Tons		Gallons		Tons		Gallons	
Manure Exported	16621		2098		1124320		29894		1903839	
Units	Tons		Tons		Gallons		Tons		Gallons	
Total Rainfall and Runoff	0		0		0		0		223839	

	Manure Generation per Animal Group *	Uncollected Manure: Nutrient Analysis Book Values	Manure Generation per Animal Group *	Uncollected Manure: Nutrient Analysis Book Values	Manure Generation per Animal Group *	Uncollected Manure: Nutrient Analysis Book Values	Manure Generation per Animal Group *	Uncollected Manure: Nutrient Analysis Book Values	Manure Generation per Animal Group *	Uncollected Manure: Nutrient Analysis Book Values
Animal Group 1	Standard Layer Chicken Site 1		Free Range Layer Chicken				Standard Layer Chicken Site 2			
Animal Type	Poultry:Layer		Poultry:Layer				Poultry:Layer			
Animal Number	1219000		61000				2000000			
Animal Weight	3.15		4				3.15			
Animal Group AUs	3839.9		244.0				6300.0			
Animal Group AEUs	3839.85		244.00				6300.00			
Daily Manure Production per AU	26		26				26			
Total Days Manure Produced	365		365				365			
Total Manure Produced							29894			
Days On Pasture										
Hours Per Day On Pasture										
Total Bedding										
Total Washwater										
CALCULATED - Total Uncollected Manure										
CALCULATED-Total Manure Collected Per Animal Group							29894			
Animal Group 2			Proposed Free Range Layers							
Animal Type			Poultry:Layer							
Animal Number			60500							
Animal Weight			4							
Animal Group AUs			242.0							
Animal Group AEUs			242.00							
Daily Manure Production per AU			26							
Total Days Manure Produced			365							
Total Manure Produced										
Days On Pasture										
Hours Per Day On Pasture										
Total Bedding										
Total Washwater										
CALCULATED - Total Uncollected Manure										
CALCULATED-Total Manure Collected Per Animal Group										

App. 4: Crop Yrs. 2016-2018 CMU/Field ID	N/A		
Acres	N/A		
Soil Test Report Date	N/A		
Laboratory Name	N/A		
Soil Test Levels (Mehlich-3 P & K) (Show conversions to ppm in Appendix 10)	ppm P	ppm K	pH
	N/A	N/A	N/A
P Index Part A	0		
	Part B		
Crop	Crop List Options		
Planned Yield	0 #N/A		
Soil Test Recommendation (lb/Acre)	N	P205	K2O
Other Nutrients Applied (lb/A) (Nutrients applied regardless of manure)	0	0	0
P Index Application Method	Select Method		
Manure History Description	Select a Residual Manure N Scenario		
Residual Manure N (lb/A)	0		
Legume History Description Residual Legume N (lb/A)	0		
	Select a Previous Legume N Scenario		
Net Nutrients Required (lb/A)			
Manure Group	Select Manure Group		
Application Season Application Management (Incorporation, cover crops, etc.)	0 0		
Availability Factors (Total N or NH4-N & Organic N)	Total N	NH4-N	Org. N
P Index Application Method	Select Method		
N Balanced Manure Rate (ton; gal/A)			
P Removal Balance Manure Rate (ton or gal/A; If required by P Index)	Crop P Removal (lb/A)		#N/A
P Index Value	#N/A		
Planned Manure Rate (ton or gal/A)	0	#N/A	
Nutrient Balance after Manure			
Supplemental Fertilizer (lb/A)	0	0	0
P Index Application Method	Select Method		
Final Nutrient Balance (lb/A)			
Manure Utilized on CMU	0		

0
1 2 3

Appendix 5
Phosphorus Index

The current Pennsylvania Phosphorus Index Spreadsheet or paper worksheet for each field that required Part B of the P Index (Appendix 4) must be included here. Preliminary P Index calculations that you might make to decide on an appropriate management strategy should not be included here.

	A	B	C	D	E	F
1	Appendix 5 - P Index					
2	Crop Yrs. 2016-2018					
3	Pennsylvania P Index Version 2					
4	Go to Appendix 4					CMU/Field ID
5	Go to NMP Index					
6	Go to Appendix 6					
7						
8						
9						
10						
11						
12						
13	PART A: SCREENING TOOL					CMU/Field ID
14	SOIL TEST					Mehlich 3 Soil Test P (ppm P)
15	Soil Test Rating = 0.20* Mehlich 3 Soil Test P (ppm P)					
16	FERTILIZER P RATE					Fertilizer P (lb P2O5/acre)
17	FERTILIZER APPLICATION METHOD	0.2 Placed or injected 2" or more deep	0.4 Incorporated <1 week following application	0.6 Incorporated > 1 week or not incorporated following application in April - October	0.8 Incorporated >1 week or not incorporated following application in Nov. - March	1.0 Surface applied to frozen or snow covered soil
18	Fertilizer Rating = Fertilizer Rate x Fertilizer Application Method					
19	MANURE P RATE					Manure P (lb P2O5/acre)
20	MANURE APPLICATION METHOD	0.2 Placed or injected 2" or more deep	0.4 Incorporated <1 week following application	0.6 Incorporated > 1 week or not incorporated following application in April - October	0.8 Incorporated >1 week or not incorporated following application in Nov. - March	1.0 Surface applied to frozen or snow covered soil
21	P SOURCE COEFFICIENT					
22	Refer to: Test results for P Source Coefficient OR Book values from P Index Fact Sheet Table 1					
23	Manure Rating = Manure Rate x Manure Application Method x P Source Coefficient					
24	PART B: TRANSPORT FACTORS					Source Factor Sum
25	EROSION					Soil Loss (ton/acre/yr)
26	RUNOFF POTENTIAL	0 <i>Drainage Class is Excessively</i>	2 <i>Drainage Class is Somewhat Excessively</i>	4 <i>Drainage Class is Well/Moderately Well</i>	6 <i>Drainage Class is Somewhat Poorly</i>	8 <i>Drainage Class is Poorly/Very Poorly</i>
27	SUBSURFACE DRAINAGE	0 None	1 Random	2 [†] Patterned		
28	CONTRIBUTING DISTANCE	0 > 500 ft.	2 350 to 500 ft.	4 200 to 349 ft.	6 100 to 199 ft. OR < 100 ft. with 35 ft. buffer	9 [‡] < 100 ft.
29	Transport Sum = Erosion + Runoff Potential + Subsurface Drainage + Contributing Distance					
30	MODIFIED CONNECTIVITY	0.85 50 ft. Riparian Buffer APPLIES TO DIST < 100 FT	1.0 Grassed Waterway or None	1.1 Direct Connection APPLIES TO DIST > 100 FT		
31	[†] OR rapidly permeable soil near a stream					Transport Sum x Modified Connectivity / 24
32	[‡] "9" factor does <u>not</u> apply to fields receiving manure with a 35 ft. buffer.					P Index Value = 2 x Source x Transport

Appendix 6
Manure Management

Date of Site Evaluation

January 14, 2015

Statement Documenting Areas Evaluated During Site Evaluation

The barns, manure storages, and surrounding areas, along with the crop field where site 2 is being proposed, were evaluated during the site visit.

Identification of Inadequate Manure Management Practices and Conditions

There were no inadequate manure management practices and/or conditions present.

BMPs to Address Manure Management Problem Areas

None

Appendix 7
Stormwater Control

Date of Site Evaluation

January 14, 2015

Statement Documenting Areas Evaluated During Site Evaluation

The farmstead was evaluated during the site visit along with the crop field where site 2 is being proposed.

Identification of Critical Runoff Problem Areas

None

BMPs to Address Critical Runoff Problem Areas

None

Appendix 8
Importer/Broker Agreements & NBSs

Nutrient Balance Sheets are not required for importers that have an approved Nutrient Management Plan.

Exporter/Importer Agreement

Manure Exported Outside of Pennsylvania

Developed consistent with the PA Nutrient and Odor Management Act Program

- 1) This agreement is entered into on 1-30-15, by Hillandale Gettysburg, LP (the “exporter”) who will supply manure, and Steven Edward Mehring Jr. (the “importer”), who will receive the manure from the exporter.
- 2) The purpose of this agreement is to set forth the mutual responsibilities and understanding of the parties with respect to the export of manure from the exporter to the importer.
- 3) The exporter is located at (state, county, twp, and address): York County, Codorus Twp, 2820 Daron Road Spring Grove, PA 17362
- 4) The exporter will, as the supply of manure allows, provide the following amounts of manure during the seasons outlined below:

Tons of (Species) manure, per season: Layer

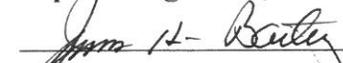
Spring 4000 tons Summer 4000 tons Fall 4000 tons Winter 4000 tons

Total: 16,000 tons

- 5) The importer's location and other relevant information as it relates to this manure export, is as follows:
 - a) **Phone number:** 301-748-6119
 - b) **County(s):** Frederick, Carroll
 - c) **Address:** 9340 Dublin Road Walkersville, MD 21793
 - d) **Proposed usage of the imported manure (include acres where relevant):** Land application to cropland
- 6) The exporter will use a Manure Export Sheet to record all manure exported to the importer. These Manure Export Sheets are available from the county conservation district or the State Conservation Commission. Computer generated forms other than the manure export sheet may be used if they contain the same information as, and are reasonably similar in format to, the forms available from the State Conservation Commission or the conservation district.

- 7) Records relating to the export of manure shall be prepared by the exporter in accordance with the following requirements of the Nutrient and Odor Management Act regulations:
 - a) A Manure Export Sheet shall be used to document all manure exports for their records
 - A copy of the Manure Export Sheet shall be provided to the importer
 - A copy of the Manure Export Sheet shall be retained on site by the exporter
 - b) Records shall be maintained by the exporter for a minimum of 3 years
- 8) The importer agrees to store, handle and apply the manure in accordance with appropriate state, federal and local requirements relevant to the importing operation.
- 9) This agreement shall remain in full effect unless terminated by either party upon thirty days prior written notice to the other party. If this agreement is terminated, the exporter shall notify the county conservation district office that approved their nutrient management plan, of the termination.

Exporter Signature, Name and Date

 (signature)
JAMES H. BAILEY (name)
1-30-15 (date)

Importer Signature, Name and Date

 (signature)
STEVEN MEHRZANG JR (name)
1-30-15 (date)

Exporter/Broker Agreement

Developed consistent with the PA Nutrient and Odor Management Act Program

- 1) This agreement is entered into on 11/2/15, by Hillandale Gettysburg, LP (the “exporter”) who will supply manure, and Chad Markle (the “broker”) who will receive the manure from the exporter.
- 2) The purpose of this agreement is to set forth the mutual responsibilities and understanding of the parties with respect to the export of manure from the exporter to the broker.
- 3) The exporter is located at (county, twp, and address): York County, Codorus Twp, 2820 Daron Road Spring Grove, PA 17362
- 4) The exporter will, as the supply of manure allows, provide the following amounts of manure during the seasons outlined below:

Tons of Layer manure, per season:

Spring 8,200 Summer 8,200 Fall 8,200 Winter 8,200

Gallons of (Species) manure, per season:

Spring _____ Summer _____ Fall _____ Winter _____

Total planned manure exported: (supply of manure may be less than what is planned)

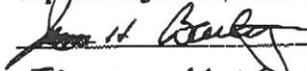
Tons of (Species) manure: 32,800

Gallons of (Species) manure: _____

- 5) The broker's contact information is as follows:
 - a) **Name:** Chad Markle
 - b) **Address:** 6301 Old Hanover Road Spring Grove, PA 17362
 - c) **Telephone number:** 717-324-0507
 - d) **PDA Manure Broker Certification number:** 1329-MB2
- 6) The Broker agrees to maintain their status as a certified Commercial Manure Broker as provided under Pa's Commercial Manure Hauler and Broker Certification Program (7 Pa Code Chapter 130e).
- 7) The Broker agrees to comply with all requirements established by section 5 of the Commercial Manure Hauler and Broker Certification Act regarding the development and distribution of nutrient balance sheets to importing operations and conservation districts when handling manure from a CAO, CAFO or volunteer operation. Specifically:
 - a. Provide a NBS to all importing operations receiving manure for land application, no later than the time of manure transfer

- b. Provide copies of the NBS, no later than the time of manure transfer, to the county conservation district where the manure originated (exporting operation county)
 - c. Provide copies of the NBS, no later than the time of manure transfer, to the county conservation district where the manure is being applied (importing operation county)
- 8) The exporter will use a Manure Export Sheet to record all manure exported to the broker. These Manure Export Sheets are available from the county conservation district or the State Conservation Commission. Computer generated forms other than the manure export sheet may be used if they contain the same information as, and are reasonably similar in format to, the forms available from the State Conservation Commission or the conservation district.
- 9) This agreement shall remain in full effect unless terminated by either party upon thirty days prior written notice to the other party. If this agreement is terminated, the exporter shall notify the county conservation district office that approved their nutrient management plan, of the termination.
- 10) By signing this agreement, the broker accepts full responsibility for the manure received from the exporter as long as the manure is under the broker's control, including handling, storage and land application.

Exporter Signature, Name and Date

 (signature)
JAMES H. BAILEY FARM MANAGER (name)
11-2-15 (date)

Broker Signature, Name and Date

 (signature)
CHAD MARKLE (name)
11-2-15 (date)

Nutrient Balance Sheets

Prepared for

Jim Bailey
2820 Daron Road
Spring Grove, PA 17362
717-299-2593

Prepared by

Corey Grove
Certification #1786
120 Lake Street
Ephrata, PA 17522
717-721-6795



Nutrient Management Specialist or Broker Signature

Date of Development February 18, 2015

County of Origin York

Generating Operation Hillandale Gettysburg, LP
Bailey Farms- Site 1 & 2
2850 Daron Road
Spring Grove, PA 17362



Nutrient Balance Worksheet Appendices

The following appendices need to accompany the Nutrient Balance Worksheets if applicable:

- Maps of fields where manure is to applied including manure application setbacks.
- Completed P-Index spreadsheet (or other similar information summary) listing the source and transport factors and final Index result for each crop management unit (if applicable).

Exporter/Importer Agreement

Manure Used For Agricultural Land Application

Developed consistent with the PA Nutrient and Odor Management Act Program

- 1) This agreement is entered into on 11-2-15, by Hillandale Gettysburg, LP (the “exporter”) who will supply manure, and James Bailey (the “importer”), who will receive the manure from the exporter.
- 2) The purpose of this agreement is to set forth the mutual responsibilities and understanding of the parties with respect to the export of manure from the exporter to the importer.
- 3) The exporter is located at (state, county, twp, and address): York County, Codorus Twp, 2820 Daron Road Spring Grove, PA 17362

- 4) The exporter will, as the supply of manure allows, provide the following amounts of manure during the seasons outlined below:

Tons of (Layer Manure) manure, per season:
Spring 300 Summer _____ Fall 300 Winter _____

Gallons of (Egg Wash Water) manure, per season:
Spring 1,009,400 Summer 1,009,400 Fall 1,009,400 Winter _____

Total planned manure exported: (supply of manure may be less than what is planned)

Tons of (Species) manure: 600

Gallons of (Species) manure: 3,028,159

- 5) The importer's location and other relevant information as it relates to this manure export, is as follows (maps indicating the location of importing fields must be attached to the supporting Nutrient Balance Sheets if manure is to be land applied at the importing site):
 - a) **Phone number:** 717-465-0264
 - b) **County(s):** York
 - c) **Township(s):** Codorus
 - d) **Owner(s) of the property receiving manure:** James Bailey, Hillandale Gettysburg LP, Syed Rizvi,
 - e) **Total cropland acres managed by the importer:** 500ac+
 - f) **Number and type of animals raised by the importer:** None
 - g) **Number of acres available for this imported manure:** 314.1ac
 - h) **Other manures (type, amount) imported to the site AND/OR utilized on the site:** (Note- this would include manure that is generated on the site by the importers animals, etc.) None
 - **If other manure is imported and/or utilized , is it applied to the same acres as indicated in item “g” above (relating to “acres available”):** Yes or No

- 6) The exporter will use a Manure Export Sheet to record all manure exported to the importer. These Manure Export Sheets are available from the county conservation district or the State Conservation Commission. Computer generated forms other than the manure export sheet may be used if they contain the same information as, and are reasonably similar in format to, the forms available from the State Conservation Commission or the conservation district.
- 7) Records relating to the export of manure shall be prepared by the exporter in accordance with the following requirements of the Nutrient and Odor Management Act regulations:
 - a) A Manure Export Sheet shall be used to document all manure exports for their records
 - A copy of the Manure Export Sheet shall be provided to the importer
 - A copy of the Manure Export Sheet shall be retained on site by the exporter
 - b) When the exporter (or someone working for, or contracted by the exporter) applies the exported manure, the exporter shall maintain the following exported manure records:
 - Application dates, areas, rates and methods
 - c) Records shall be maintained by the exporter for a minimum of 3 years
 - d) The following informational material (as supplied by the conservation district or State Conservation Commission) shall be provided to the importer by the time of the manure export. This information only needs to be provided once to the importer.
 - Relevant sections of the DEP Manure Management Manual
 - Educational publication describing key nutrient management concepts
- 8) Where applicable, the importer shall properly store manure received from the exporter in accordance with the provisions of the Manure Management Manual and the Pa Technical Guide and shall not cause contamination of surface or ground water. This shall include manure stacked in application fields which may not be retained in fields for > 120 days unless covered or otherwise protected (15 days if the manure is stacked in fields under the management control of a CAFO).
- 9) Manure received by the importer shall be applied to the land at the rate(s) and method(s) provided in the attached "Nutrient Balance Sheet(s)", or in accordance with a Nutrient Management Plan approved for the importing operation. If the importer wishes to change the lands used for imported manure, the nutrient balance sheet must be revised to reflect the changes and be submitted to the conservation district or State Conservation Commission (and DEP if the exporter is a CAFO) prior to implementing the changes.
- 10) The importer shall comply with applicable manure application setbacks for the imported manure, as outlined in the Nutrient Balance Sheet map(s).
- 11) For any lands not owned by the importer where the manure will be applied (i.e., rented lands), the importer hereby confirms that the importer has the authority to apply manure on those lands.
- 12) This agreement shall remain in full effect unless terminated by either party upon thirty days prior written notice to the other party. If this agreement is terminated, the exporter shall notify the county conservation district office that approved their nutrient management plan, of the termination.

Exporter Signature, Name and Date
 (signature)
 Ronald R. Batters (name)
 11/2/2015 (date)

Importer Signature, Name and Date
 (signature)
 James H. Baisly (name)
 11-2-15 (date)

October 2016 Version

Nutrient Balance Sheet Summary

	CMU/Field ID	Crop Group	Manure Group	Application Season	Application Management	Planned Manure Rate ²	Starter/Other Fertilizer (lb/A)			Nutrient Balance @ Planned Rate (lb/A) ¹			See Notes
							N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅ ²	K ₂ O ²	
1	R2-4. R7-8, Hillandale 6-8, G2, Y1-3 Corn Grain 1st Egg Wash Water Application	Corn Grain	Egg Wash Water	Early Fall	Incorporation after 7 days or none	6000 gal/A	0	0	0	145	55	33	See notes
2	R2-4. R7-8, Hillandale 6-8, G2, Y1-3 Corn Grain 2nd Egg Wash Water Application	Corn Grain	Egg Wash Water	Spring	Incorporation after 7 days or none	6000 gal/A	0	0	0	145	38	12	See notes
3	R2-4. R7-8, Hillandale 6-8, G2, Y1-3 Corn Grain Standard Layer After 2 applications of Wash Water	Corn Grain	Standard Layer	Early Fall	Incorporation after 7 days or none	3 ton/A	0	0	0	126	-103	-110	See notes
4	R2-4. R7-8, Hillandale 6-8, G2, Y1-3 Corn Grain Free Range Layer After 2 applications Wash Water	Corn Grain	Free Range Layer	Spring	Incorporation after 7 days or none	3 ton/A	0	0	0	122	-106	-152	See notes
5	R2-4. R7-8, Hillandale 6-8, G2, Y1-3 Corn Grain Following Soybeans 1st Egg Wash Water Application	Corn Grain	Egg Wash Water	Early Fall	Incorporation after 7 days or none	6000 gal/A	0	0	0	85	55	33	See notes
6	R2-4. R7-8, Hillandale 6-8, G2, Y1-3 Corn Grain Following Soybeans 2nd Egg Wash Water Application	Corn Grain	Egg Wash Water	Spring	Incorporation after 7 days or none	6000 gal/A	0	0	0	85	38	12	See notes

¹ Positive numbers = nutrient deficit;
Negative numbers = nutrient excess

² See NBS Summary Notes

Nutrient Balance Sheet Summary

	CMU/Field ID	Crop Group	Manure Group	Application Season	Application Management	Planned Manure Rate ²	Starter/Other Fertilizer (lb/A)			Nutrient Balance @ Planned Rate (lb/A) ¹			See Notes
							N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅ ²	K ₂ O ²	
7	R2-4, R7-8, Hillandale 6-8, G2, Y1-3 Corn Grain Following Soybeans Standard Layer After 2 applications of	Corn Grain	Standard Layer	Spring	Incorporation after 7 days or none	3 ton/A	0	0	0	66	-103	-110	See notes
8	R2-4, R7-8, Hillandale 6-8, G2, Y1-3 Corn Grain Following Soybeans Free Range Layer After 2 applications of Wash Water	Corn Grain	Free Range Layer	Spring	Incorporation after 7 days or none	3 ton/A	0	0	0	62	-106	-152	See notes
9	Hillandale 3 & 5, R1, R5, G1, G3,F1, F2 Corn Grain 1st Application of Egg Wash Water	Corn Grain	Egg Wash Water	Spring	Incorporation after 7 days or none	6000 gal/A	0	0	0	145	55	33	See notes
10	Hillandale 3 & 5, R1, R5, G1, G3,F1, F2 Corn Grain 2nd Application of Egg Wash Water	Corn Grain	Egg Wash Water	Spring	Incorporation after 7 days or none	6000 gal/A	0	0	0	145	38	12	See notes
11	Hillandale 3 & 5, R1, R5, G1, G3,F1, F2 Corn Grain Following Soybeans 1st Application of Egg Wash Water	Corn Grain	Egg Wash Water	Spring	Incorporation after 7 days or none	6000 gal/A	0	0	0	85	55	33	See notes

¹ Positive numbers = nutrient deficit;
Negative numbers = nutrient excess

² See NBS Summary Notes

February 18, 2015

Nutrient Balance Sheet Summary

	CMU/Field ID	Crop Group	Manure Group	Application Season	Application Management	Planned Manure Rate ²	Starter/Other Fertilizer (lb/A)			Nutrient Balance @ Planned Rate (lb/A) ¹			See Notes
							N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅ ²	K ₂ O ²	
12	Hillandale 3 & 5, R1, R5, G1, G3, F1, F2 Corn Grain Following Soybeans 2nd Application of Egg Wash Water	Corn Grain	Egg Wash Water	Spring	Incorporation after 7 days or none	6000 gal/A	0	0	0	85	38	12	See notes
13	F1 & 2 Corn Grain Standard Layer After 2 Applications of Egg Wash Water	Corn Grain	Standard Layer	Spring	Incorporation after 7 days or none	2 ton/A	0	0	0	132	-56	-70	See notes
14	F1 & 2 Corn Grain Following Soybeans Standard Layer After 2 Applications of Egg Wash Water	Corn Grain	Standard Layer	Spring	Incorporation after 7 days or none	2 ton/A	0	0	0	12	-56	-70	See notes
15	F1 & 2 Corn Grain Free Range Layer After 2 Applications of Egg Wash Water	Corn Grain	Free Range Layer	Spring	Incorporation after 7 days or none	2 ton/A	0	0	0	129	-58	-97	See notes

¹ Positive numbers = nutrient deficit;
 Negative numbers = nutrient excess

² See NBS Summary Notes

Nutrient Balance Sheet Summary

	CMU/Field ID	Crop Group	Manure Group	Application Season	Application Management	Planned Manure Rate ²	Starter/Other Fertilizer (lb/A)			Nutrient Balance @ Planned Rate (lb/A) ¹			See Notes
							N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅ ²	K ₂ O ²	
1	F1 & 2 Corn Grain Following Soybeans Free Range Layer After 2 Applications of Egg Wash Water	Corn Grain	Free Range Layer	Spring	Incorporation after 7 days or none	2 ton/A				9	-58	-97	See notes
2	R2-4, R7-8, Hillandale 6-8, G2, Y1-3 Soybeans 1st Egg Wash Water Application	Soybeans with Manure	Egg Wash Water	Early Fall	Incorporation after 7 days or none	6000 gal/A				157	43	63	See notes
3	R2-4, R7-8, Hillandale 6-8, G2, Y1-3 Soybeans 2nd Egg Wash Water Application	Soybeans with Manure	Egg Wash Water	Spring	Incorporation after 7 days or none	6000 gal/A				157	26	42	See notes
4	R1, R5, G1, G3,F1, F2 Soybeans 1st Egg Wash Water Application	Soybeans with Manure	Egg Wash Water	Early Fall	Incorporation after 7 days or none	6000 gal/A				157	43	63	See notes
5	R1, R5, G1, G3,F1, F2 Soybeans 2nd Egg Wash Water Application	Soybeans with Manure	Egg Wash Water	Spring	Incorporation after 7 days or none	6000 gal/A				147	26	42	See notes
6	Hillandale 3 & 5 Soybeans with one Egg Wash Water Application	Soybeans with Manure	Egg Wash Water	Spring	Incorporation after 7 days or none	6000 gal/A				157	43	63	See notes

¹ Positive numbers = nutrient deficit;
Negative numbers = nutrient excess

² See NBS Summary Notes

February 18, 2015

Nutrient Balance Sheet Summary Notes

	CMU/Field ID	Crop Group	Manure Group	Planned Manure Rate Notes	Nutrient Balance @ Planned Rate Notes	Other Notes
1	R2-4. R7-8, Hillandale 6-8, G2, Y1-3 Corn Grain 1st Egg Wash Water Application	Corn Grain	Egg Wash Water	Planned rate can be applied annually	Nutrient balances for P2O5 and K2O are based on crop removal (Row A) and should not be used to determine additional fertilizer needs.	Early fall and spring applications can be substituted for each other since the N availability and P-Index factors are the same for both spring and fall. R2, R7, G2, & Y2-3 have a 150' stream application set back.
2	R2-4. R7-8, Hillandale 6-8, G2, Y1-3 Corn Grain 2nd Egg Wash Water Application	Corn Grain	Egg Wash Water	Planned rate can be applied annually	Nutrient balances for P2O5 and K2O are based Soil Test Recommendations.	Early fall and spring applications can be substituted for each other since the N availability and P-Index factors are the same for both spring and fall. R2, R7, G2, & Y2-3 have a 150' stream application set back.
3	R2-4. R7-8, Hillandale 6-8, G2, Y1-3 Corn Grain Standard Layer After 2 applications of Wash Water	Corn Grain	Standard Layer	Planned rate can be applied annually	Nutrient balances for P2O5 and K2O are based Soil Test Recommendations.	Early fall and spring applications can be substituted for each other since the N availability and P-Index factors are the same for both spring and fall. R2, R7, G2, & Y2-3 have a 150' stream application set back.
4	R2-4. R7-8, Hillandale 6-8, G2, Y1-3 Corn Grain Free Range Layer After 2 applications Wash Water	Corn Grain	Free Range Layer	Planned rate can be applied annually	Nutrient balances for P2O5 and K2O are based Soil Test Recommendations.	Early fall and spring applications can be substituted for each other since the N availability and P-Index factors are the same for both spring and fall. R2, R7, G2, & Y2-3 have a 150' stream application set back.
5	R2-4. R7-8, Hillandale 6-8, G2, Y1-3 Corn Grain Following Soybeans 1st Egg Wash Water	Corn Grain	Egg Wash Water	Planned rate can be applied annually	Nutrient balances for P2O5 and K2O are based on crop removal (Row A) and should not be used to determine additional fertilizer needs.	Early fall and spring applications can be substituted for each other since the N availability and P-Index factors are the same for both spring and fall. R2, R7, G2, & Y2-3 have a 150' stream application set back.
6	R2-4. R7-8, Hillandale 6-8, G2, Y1-3 Corn Grain Following Soybeans 2nd Egg Wash Water	Corn Grain	Egg Wash Water	Planned rate can be applied annually	Nutrient balances for P2O5 and K2O are based Soil Test Recommendations.	Early fall and spring applications can be substituted for each other since the N availability and P-Index factors are the same for both spring and fall. R2, R7, G2, & Y2-3 have a 150' stream application set back.

February 18, 2015

Nutrient Balance Sheet Summary Notes

	CMU/Field ID	Crop Group	Manure Group	Planned Manure Rate Notes	Nutrient Balance @ Planned Rate Notes	Other Notes
7	R2-4, R7-8, Hillandale 6-8, G2, Y1-3 Corn Grain Following Soybeans Standard Layer After 2 applications of	Corn Grain	Standard Layer	Planned rate can be applied annually	Nutrient balances for P2O5 and K2O are based Soil Test Recommendations.	Early fall and spring applications can be substituted for each other since the N availability and P-Index factors are the same for both spring and fall. R2, R7, G2, & Y2-3 have a 150' stream application set back.
8	R2-4, R7-8, Hillandale 6-8, G2, Y1-3 Corn Grain Following Soybeans Free Range Layer After 2 applications of Wash Water	Corn Grain	Free Range Layer	Planned rate can be applied annually	Nutrient balances for P2O5 and K2O are based Soil Test Recommendations.	Early fall and spring applications can be substituted for each other since the N availability and P-Index factors are the same for both spring and fall. R2, R7, G2, & Y2-3 have a 150' stream application set back.
9	Hillandale 3 & 5, R1, R5, G1, G3,F1, F2 Corn Grain 1st Application of Egg Wash Water	Corn Grain	Egg Wash Water	Planned rate can be applied annually	Nutrient balances for P2O5 and K2O are based on crop removal (Row A) and should not be used to determine additional fertilizer needs.	Early fall and spring applications can be substituted for each other since the N availability and P-Index factors are the same for both spring and fall.
10	Hillandale 3 & 5, R1, R5, G1, G3,F1, F2 Corn Grain 2nd Application of Egg Wash Water	Corn Grain	Egg Wash Water	Planned rate can be applied annually	Nutrient balances for P2O5 and K2O are based Soil Test Recommendations.	Early fall and spring applications can be substituted for each other since the N availability and P-Index factors are the same for both spring and fall.
11	Hillandale 3 & 5, R1, R5, G1, G3,F1, F2 Corn Grain Following Soybeans 1st Application of Egg Wash Water	Corn Grain	Egg Wash Water	Planned rate can be applied annually	Nutrient balances for P2O5 and K2O are based on crop removal (Row A) and should not be used to determine additional fertilizer needs.	Early fall and spring applications can be substituted for each other since the N availability and P-Index factors are the same for both spring and fall.

February 18, 2015

Nutrient Balance Sheet Summary Notes

	CMU/Field ID	Crop Group	Manure Group	Planned Manure Rate Notes	Nutrient Balance @ Planned Rate Notes	Other Notes
12	Hillandale 3 & 5, R1, R5, G1, G3,F1, F2 Corn Grain Following Soybeans 2nd Application of Egg Wash Water	Corn Grain	Egg Wash Water	Planned rate can be applied annually	Nutrient balances for P2O5 and K2O are based Soil Test Recommendations.	Early fall and spring applications can be substituted for each other since the N availability and P-Index factors are the same for both spring and fall.
13	F1 & 2 Corn Grain Standard Layer After 2 Applications of Egg Wash Water	Corn Grain	Standard Layer	Planned rate can be applied annually	Nutrient balances for P2O5 and K2O are based Soil Test Recommendations.	Early fall and spring applications can be substituted for each other since the N availability and P-Index factors are the same for both spring and fall.
14	F1 & 2 Corn Grain Following Soybeans Standard Layer After 2 Applications of Egg Wash Water	Corn Grain	Standard Layer	Planned rate can be applied annually	Nutrient balances for P2O5 and K2O are based Soil Test Recommendations.	Early fall and spring applications can be substituted for each other since the N availability and P-Index factors are the same for both spring and fall. P-index only allows 2 tons of free range layer manure with 2 applications of egg wash water.
15	F1 & 2 Corn Grain Free Range Layer After 2 Applications of Egg Wash Water	Corn Grain	Free Range Layer	Planned rate can be applied annually	Nutrient balances for P2O5 and K2O are based Soil Test Recommendations.	Early fall and spring applications can be substituted for each other since the N availability and P-Index factors are the same for both spring and fall. P-index only allows 2 tons of free range layer manure with 2 applications of egg wash water.

Nutrient Balance Sheet Summary Notes

	CMU/Field ID	Crop Group	Manure Group	Planned Manure Rate Notes	Nutrient Balance @ Planned Rate Notes	Other Notes
1	F1 & 2 Corn Grain Following Soybeans Free Range Layer After 2 Applications of Egg Wash Water	Corn Grain	Free Range Layer	Planned rate can be applied annually	Nutrient balances for P2O5 and K2O are based Soil Test Recommendations.	Early fall and spring applications can be substituted for each other since the N availability and P-Index factors are the same for both spring and fall. P-index only allows 2 tons of free range layer manure with 2 applications of egg wash water.
2	R2-4. R7-8, Hillandale 6-8, G2, Y1-3 Soybeans 1st Egg Wash Water Application	Soybeans with Manure	Egg Wash Water	Planned rate can be applied annually	Nutrient balances for P2O5 and K2O are based on crop removal (Row A) and should not be used to determine additional fertilizer needs.	Early fall and spring applications can be substituted for each other since the N availability and P-Index factors are the same for both spring and fall. R2, R7, G2, & Y2-3 have a 150' stream application set back.
3	R2-4. R7-8, Hillandale 6-8, G2, Y1-3 Soybeans 2nd Egg Wash Water Application	Soybeans with Manure	Egg Wash Water	Planned rate can be applied annually	Nutrient balances for P2O5 and K2O are based Soil Test Recommendations.	Early fall and spring applications can be substituted for each other since the N availability and P-Index factors are the same for both spring and fall. R2, R7, G2, & Y2-3 have a 150' stream application set back.

Nutrient Balance Sheet Summary Notes

	CMU/Field ID	Crop Group	Manure Group	Planned Manure Rate Notes	Nutrient Balance @ Planned Rate Notes	Other Notes
4	R1, R5, G1, G3, F1, F2 Soybeans 1st Egg Wash Water Application	Soybeans with Manure	Egg Wash Water	Planned rate can be applied annually	Nutrient balances for P2O5 and K2O are based on crop removal (Row A) and should not be used to determine additional fertilizer needs.	Early fall and spring applications can be substituted for each other since the N availability and P-Index factors are the same for both spring and fall. R2, R7, G2, & Y2-3 have a 150' stream application set back.
5	R1, R5, G1, G3, F1, F2 Soybeans 2nd Egg Wash Water Application	Soybeans with Manure	Egg Wash Water	Planned rate can be applied annually	Nutrient balances for P2O5 and K2O are based Soil Test Recommendations.	Early fall and spring applications can be substituted for each other since the N availability and P-Index factors are the same for both spring and fall. R2, R7, G2, & Y2-3 have a 150' stream application set back.
6	Hillandale 3 & 5 Soybeans with one Egg Wash Water Application	Soybeans with Manure	Egg Wash Water	Planned rate can be applied annually	Nutrient balances for P2O5 and K2O are based on crop removal (Row A) and should not be used to determine additional fertilizer needs.	Early fall and spring applications can be substituted for each other since the N availability and P-Index factors are the same for both spring and fall. P-index only allows 1 application of egg wash water.

Nutrient Balance Worksheet February 18, 2015	R2-4. R7-8, Hillandale 6-8, G2, Y1-3 Corn Grain 1st Egg Wash Water Application			R2-4. R7-8, Hillandale 6-8, G2, Y1-3 Corn Grain 2nd Egg Wash Water Application			R2-4. R7-8, Hillandale 6-8, G2, Y1-3 Corn Grain Standard Layer After 2 applications of Wash Water		
CMU/Field ID(s)									
Manure Plan Basis	Option 2 - N Requirement			Option 2 - N Requirement			Option 2 - N Requirement		
Option 1 - P Removal 1. Will P banking be used?	<input type="checkbox"/>			<input type="checkbox"/>			<input type="checkbox"/>		
Option 2 - N Requirement 1. Calculate P Balance? 2. Enter Soil test Value(s) (ppm Mehlich-3 P)	Yes 125,116,64,186,22,80,163,107,89			Yes 125,116,64,186,22,80,163,107,89			Yes 125,116,64,186,22,80,163,107,89		
Option 3 - P Index evaluation must be completed.	<input type="checkbox"/>			<input type="checkbox"/>			<input type="checkbox"/>		
Acres	171.7			171.7			171.7		
Crop Group - To enter a Crop Group use the "Select" button.	Corn Grain			Corn Grain			Corn Grain		
Yield	180 bu/A			180 bu/A			180 bu/A		
Manure Group - To enter a Manure Group use the "Select" button.	Egg Wash Water			Egg Wash Water			Standard Layer		
Manure Type	Poultry			Poultry			Poultry		
G) Manure Nutrient Content (lb/ton or lb/1000 gal)	lb/1000 gal			lb/1000 gal			lb/ton		
Total N	0.32			0.32			42.93		
P ₂ O ₅	2.9			2.9			47.12		
K ₂ O	3.5			3.5			40.78		
Application Timing and Method - To enter a Manure Application Timing and Method, use the "Select" button.	Early Fall		Incorporation after 7 days or none	Spring		Incorporation after 7 days or none	Early Fall		Incorporation after 7 days or none
1. Soil Test N Recommendation (lb N/A) ¹				145			145		
2. Soil Test P Recommendation (lb P ₂ O ₅ /A) ¹				55			38		
3. Soil Test K ₂ O Recommendation (lb K ₂ O/A) ¹				33			12		
4. Calculate K ₂ O balance?	Yes			Yes			Yes		
	N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O
A) Recommendation or Removal (lb/A) - Tables 1, 2 & 3	180	72	54	145	55	33	145	38	12
B) Fertilizer Applied (lb/A)	0	0	0	0	0	0	0	0	0
C) Other Organic Sources Applied (lb/A)	0	0	0	0	0	0	0	0	0
D) Residual Manure N Management Residual Manure N Value (lb/A) - Table 4 (AG Table 1.2-14B)	Continuous 35			Rarely 0			Rarely 0		
E) Previous Legume N Management - To enter a previous legume N management, use the "Select" button. Previous Legume N Value (lb/A) - Table 5 (AG Table 1.2-7)	No Previous Year Legume 0			No Previous Year Legume 0			No Previous Year Legume 0		
F) Net Nutrient Requirement (lb/A)	145	72	54	145	55	33	145	38	12
H) N Availability Factor - Table 6 (AG Table 1.2-14A)	0.15			0.15			0.15		
I) Available Nitrogen (lb/ton, lb/1000 gal)	0.0			0.0			6.4		
J) Balanced Manure Rate (ton/A, gal/A)	3020833			3020833			22.5		
K) Planned Manure Rate Enter Rate →	6000 gal/A			6000 gal/A			3 ton/A		
L) Nutrients Applied at Planned Rate (lb/A)	0	17	21	0	17	21	19	141	122
M) Nutrient Balance at Planned Rate (lb/A)	145	55	33	145	38	12	126	-103	-110
	Short	Short	Short	Short	Short	Short	Short	Excess	Excess
Note: Nutrient balances for P ₂ O ₅ and K ₂ O based on crop removal (Row A) should not be used to determine additional fertilizer needs. Only recommendations based on soil tests should be used for this purpose.	Nutrient balances for P ₂ O ₅ and K ₂ O are based on crop removal (Row A).			Nutrient balances for P ₂ O ₅ and K ₂ O are based on soil test recommendations.			Nutrient balances for P ₂ O ₅ and K ₂ O are based on soil test recommendations.		

Nutrient Balance Worksheet February 18, 2015	R2-4. R7-8, Hillandale 6-8, G2, Y1-3 Corn Grain Free Range Layer After 2 applications Wash Water			R2-4. R7-8, Hillandale 6-8, G2, Y1-3 Corn Grain Following Soybeans 1st Egg Wash Water Application			R2-4. R7-8, Hillandale 6-8, G2, Y1-3 Corn Grain Following Soybeans 2nd Egg Wash Water Application		
CMU/Field ID(s)									
Manure Plan Basis	Option 2 - N Requirement			Option 2 - N Requirement			Option 2 - N Requirement		
Option 1 - P Removal 1. Will P banking be used?	<input type="checkbox"/>			<input type="checkbox"/>			<input type="checkbox"/>		
Option 2 - N Requirement 1. Calculate P Balance? 2. Enter Soil test Value(s) (ppm Mehlich-3 P)	Yes 125,116,64,186,22,80,163,107,89			Yes 125,116,64,186,22,80,163,107,89			Yes 125,116,64,186,22,80,163,107,89		
Option 3 - P Index evaluation must be completed.	<input type="checkbox"/>			<input type="checkbox"/>			<input type="checkbox"/>		
Acres	171.7			171.7			171.7		
Crop Group - To enter a Crop Group use the "Select" button.	Corn Grain			Corn Grain			Corn Grain		
Yield	180 bu/A			180 bu/A			180 bu/A		
Manure Group - To enter a Manure Group use the "Select" button	Free Range Layer			Egg Wash Water			Egg Wash Water		
Manure Type	Poultry			Poultry			Poultry		
G) Manure Nutrient Content (lb/ton or lb/1000 gal)	lb/ton			lb/1000 gal			lb/1000 gal		
Total N	51.87			0.32			0.32		
P ₂ O ₅	48.15			2.9			2.9		
K ₂ O	54.6			3.5			3.5		
Application Timing and Method - To enter a Manure Application Timing and Method, use the "Select" button.	Spring		Incorporation after 7 days or none	Early Fall		Incorporation after 7 days or none	Spring		Incorporation after 7 days or none
1. Soil Test N Recommendation (lb N/A) ¹	145						85		
2. Soil Test P Recommendation (lb P ₂ O ₅ /A) ¹	38						55		
3. Soil Test K ₂ O Recommendation (lb K ₂ O/A) ¹	12						33		
4. Calculate K ₂ O balance?	Yes			Yes			Yes		
	N	P2O5	K2O	N	P2O5	K2O	N	P2O5	K2O
A) Recommendation or Removal (lb/A) - Tables 1, 2 & 3	145	38	12	180	72	54	85	55	33
B) Fertilizer Applied (lb/A)	0	0	0	0	0	0	0	0	0
C) Other Organic Sources Applied (lb/A)	0	0	0	0	0	0	0	0	0
D) Residual Manure N Management Residual Manure N Value (lb/A) - Table 4 (AG Table 1.2-14B)	Rarely 0			Continuous 35			Rarely 0		
E) Previous Legume N Management - To enter a previous legume N management, use the "Select" button. Previous Legume N Value (lb/A) - Table 5 (AG Table 1.2-7)	No Previous Year Legume 0			Soybeans, 60 bu/A 60			No Previous Year Legume 0		
F) Net Nutrient Requirement (lb/A)	145	38	12	85	72	54	85	55	33
H) N Availability Factor - Table 6 (AG Table 1.2-14A)	0.15			0.15			0.15		
I) Available Nitrogen (lb/ton, lb/1000 gal)	7.8			0.0			0.0		
J) Balanced Manure Rate (ton/A, gal/A)	18.6			1770833			1770833		
K) Planned Manure Rate Enter Rate →	3 ton/A			6000 gal/A			6000 gal/A		
L) Nutrients Applied at Planned Rate (lb/A)	23	144	164	0	17	21	0	17	21
M) Nutrient Balance at Planned Rate (lb/A)	122	-106	-152	85	55	33	85	38	12
	Short	Excess	Excess	Short	Short	Short	Short	Short	Short
Note: Nutrient balances for P ₂ O ₅ and K ₂ O based on crop removal (Row A) should not be used to determine additional fertilizer needs. Only recommendations based on soil tests should be used for this purpose.	Nutrient balances for P2O5 and K2O are based on soil test recommendations.			Nutrient balances for P2O5 and K2O are based on crop removal (Row A).			Nutrient balances for P2O5 and K2O are based on soil test recommendations.		

Nutrient Balance Worksheet February 18, 2015	R2-4, R7-8, Hillandale 6-8, G2, Y1-3 Corn Grain Following Soybeans Standard Layer After 2 applications of Wash Water			R2-4, R7-8, Hillandale 6-8, G2, Y1-3 Corn Grain Following Soybeans Free Range Layer After 2 applications of Wash Water			Hillandale 3 & 5, R1, R5, G1, G3,F1, F2 Corn Grain 1st Application of Egg Wash Water		
CMU/Field ID(s)									
Manure Plan Basis	Option 2 - N Requirement			Option 2 - N Requirement			Option 3 - P Index evaluation required		
Option 1 - P Removal 1. Will P banking be used?	<input type="checkbox"/>			<input type="checkbox"/>			<input type="checkbox"/>		
Option 2 - N Requirement 1. Calculate P Balance? 2. Enter Soil test Value(s) (ppm Mehlich-3 P)	Yes 125,116,64,186,22,80,163,107,89			Yes 125,116,64,186,22,80,163,107,89			<input type="checkbox"/>		
Option 3 - P Index evaluation must be completed.	<input type="checkbox"/>			<input type="checkbox"/>			<input checked="" type="checkbox"/>		
Acres	171.7			171.7			142.4		
Crop Group - To enter a Crop Group use the "Select" button.	Corn Grain			Corn Grain			Corn Grain		
Yield	180 bu/A			180 bu/A			180 bu/A		
Manure Group - To enter a Manure Group use the "Select" button	Standard Layer			Free Range Layer			Egg Wash Water		
Manure Type	Poultry			Poultry			Poultry		
G) Manure Nutrient Content (lb/ton or lb/1000 gal)	lb/ton			lb/ton			lb/1000 gal		
Total N	42.93			51.87			0.32		
P ₂ O ₅	47.12			48.15			2.9		
K ₂ O	40.78			54.6			3.5		
Application Timing and Method - To enter a Manure Application Timing and Method, use the "Select" button.	Spring		Incorporation after 7 days or none	Spring		Incorporation after 7 days or none	Spring		Incorporation after 7 days or none
1. Soil Test N Recommendation (lb N/A) ¹	85			85					
2. Soil Test P Recommendation (lb P ₂ O ₅ /A) ¹	38			38					
3. Soil Test K ₂ O Recommendation (lb K ₂ O/A) ¹	12			12					
4. Calculate K ₂ O balance?	Yes			Yes			Yes		
	N	P2O5	K2O	N	P2O5	K2O	N	P2O5	K2O
A) Recommendation or Removal (lb/A) - Tables 1, 2 & 3	85	38	12	85	38	12	180	72	54
B) Fertilizer Applied (lb/A)	0	0	0	0	0	0	0	0	0
C) Other Organic Sources Applied (lb/A)	0	0	0	0	0	0	0	0	0
D) Residual Manure N Management Residual Manure N Value (lb/A) - Table 4 (AG Table 1.2-14B)	Rarely 0			Rarely 0			Continuous 35		
E) Previous Legume N Management - To enter a previous legume N management, use the "Select" button.	No Previous Year Legume			No Previous Year Legume			No Previous Year Legume		
Previous Legume N Value (lb/A) - Table 5 (AG Table 1.2-7)	0			0			0		
F) Net Nutrient Requirement (lb/A)	85	38	12	85	38	12	145	72	54
H) N Availability Factor - Table 6 (AG Table 1.2-14A)	0.15			0.15			0.15		
I) Available Nitrogen (lb/ton, lb/1000 gal)	6.4			7.8			0.0		
J) Balanced Manure Rate (ton/A, gal/A)	13.2			10.9			3020833	24828	
K) Planned Manure Rate Enter Rate →	3 ton/A			3 ton/A			6000 gal/A		
							Planned rate and P Index must be consistent.		
L) Nutrients Applied at Planned Rate (lb/A)	19	141	122	23	144	164	0	17	21
M) Nutrient Balance at Planned Rate (lb/A)	66	-103	-110	62	-106	-152	145	55	33
	Short	Excess	Excess	Short	Excess	Excess	Short	Short	Short
Note: Nutrient balances for P ₂ O ₅ and K ₂ O based on crop removal (Row A) should not be used to determine additional fertilizer needs. Only recommendations based on soil tests should be used for this purpose.	Nutrient balances for P2O5 and K2O are based on soil test recommendations.			Nutrient balances for P2O5 and K2O are based on soil test recommendations.			Nutrient balances for P2O5 and K2O are based on crop removal (Row A).		

Nutrient Balance Worksheet											
February 18, 2015											
CMU/Field ID(s)											
F1 & 2 Corn Grain Standard Layer After 2 Applications of Egg Wash Water			F1 & 2 Corn Grain Following Soybeans Standard Layer After 2 Applications of Egg Wash Water			F1 & 2 Corn Grain Free Range Layer After 2 Applications of Egg Wash Water					
Manure Plan Basis											
Option 3 - P Index evaluation required			Option 3 - P Index evaluation required			Option 3 - P Index evaluation required					
Option 1 - P Removal											
1. Will P banking be used?											
Option 2 - N Requirement											
1. Calculate P Balance?											
2. Enter Soil test Value(s) (ppm Mehlich-3 P)											
Option 3 - P Index evaluation must be completed.											
Acres											
63.7			63.7			63.7					
Crop Group - To enter a Crop Group use the "Select" button.											
Corn Grain			Corn Grain			Corn Grain					
Yield											
180 bu/A			180 bu/A			180 bu/A					
Manure Group - To enter a Manure Group use the "Select" button.											
Standard Layer			Standard Layer			Free Range Layer					
Manure Type											
Poultry			Poultry			Poultry					
G) Manure Nutrient Content (lb/ton or lb/1000 gal)											
Total N											
42.93			42.93			51.87					
P ₂ O ₅											
47.12			47.12			48.15					
K ₂ O											
40.78			40.78			54.6					
Application Timing and Method -											
To enter a Manure Application Timing and Method, use the "Select" button.											
Spring			Incorporation after 7 days or none			Spring			Incorporation after 7 days or none		
1. Soil Test N Recommendation (lb N/A) ¹											
145			85			145					
2. Soil Test P Recommendation (lb P ₂ O ₅ /A) ¹											
38			38			38					
3. Soil Test K ₂ O Recommendation (lb K ₂ O/A) ¹											
12			12			12					
4. Calculate K ₂ O balance?											
Yes			Yes			Yes					
A) Recommendation or Removal (lb/A) - Tables 1, 2 & 3											
N	P2O5	K2O	N	P2O5	K2O	N	P2O5	K2O			
145	38	12	85	38	12	145	38	12			
B) Fertilizer Applied (lb/A)											
0	0	0	0	0	0	0	0	0			
C) Other Organic Sources Applied (lb/A)											
0	0	0	0	0	0	0	0	0			
D) Residual Manure N Management											
Residual Manure N Value (lb/A) - Table 4 (AG Table 1.2-14B)											
Rarely			Rarely			Rarely					
0			0			0					
E) Previous Legume N Management -											
To enter a previous legume N management, use the "Select" button.											
Previous Legume N Value (lb/A) - Table 5 (AG Table 1.2-7)											
No Previous Year Legume			Soybeans, 60 bu/A			No Previous Year Legume					
0			60			0					
F) Net Nutrient Requirement (lb/A)											
145	38	12	25	38	12	145	38	12			
H) N Availability Factor - Table 6 (AG Table 1.2-14A)											
0.15			0.15			0.15					
I) Available Nitrogen (lb/ton, lb/1000 gal)											
6.4			6.4			7.8					
J) Balanced Manure Rate (ton/A, gal/A)											
22.5	0.8		3.9	0.8		18.6	0.8				
K) Planned Manure Rate Enter Rate →											
2 ton/A			2 ton/A			2 ton/A					
Planned rate and P Index must be consistent.											
L) Nutrients Applied at Planned Rate (lb/A)											
13	94	82	13	94	82	16	96	109			
M) Nutrient Balance at Planned Rate (lb/A)											
132	-56	-70	12	-56	-70	129	-58	-97			
Short	Excess	Excess	Short	Excess	Excess	Short	Excess	Excess			
Note: Nutrient balances for P ₂ O ₅ and K ₂ O based on crop removal (Row A) should not be used to determine additional fertilizer needs. Only recommendations based on soil tests should be used for this purpose.											
Nutrient balances for P2O5 and K2O are based on soil test recommendations.			Nutrient balances for P2O5 and K2O are based on soil test recommendations.			Nutrient balances for P2O5 and K2O are based on soil test recommendations.					

Nutrient Balance Worksheet									
CMU/Field ID(s)	F1 & 2 Corn Grain Following Soybeans Free Range Layer After 2 Applications of Egg Wash Water			R2-4. R7-8, Hillandale 6-8, G2, Y1-3 Soybeans 1st Egg Wash Water Application			R2-4. R7-8, Hillandale 6-8, G2, Y1-3 Soybeans 2nd Egg Wash Water Application		
Manure Plan Basis	Option 3 - P Index evaluation required			Option 2 - N Requirement			Option 2 - N Requirement		
Option 1 - P Removal 1. Will P banking be used?	<input type="checkbox"/>			<input type="checkbox"/>			<input type="checkbox"/>		
Option 2 - N Requirement 1. Calculate P Balance? 2. Enter Soil test Value(s) (ppm Mehlich-3 P)	<input type="checkbox"/>			<input checked="" type="checkbox"/> Yes			<input checked="" type="checkbox"/> Yes		
Option 3 - P Index evaluation must be completed.	<input checked="" type="checkbox"/>			<input type="checkbox"/>			<input type="checkbox"/>		
Acres	63.7			171.7			171.7		
Crop Group - To enter a Crop Group use the "Select" button.	Corn Grain			Soybeans with Manure			Soybeans with Manure		
Yield	180 bu/A			60 bu/A			60 bu/A		
Manure Group - To enter a Manure Group use the "Select" button.	Free Range Layer			Egg Wash Water			Egg Wash Water		
Manure Type	Poultry			Poultry			Poultry		
G) Manure Nutrient Content (lb/ton or lb/1000 gal)	lb/ton			lb/1000 gal			lb/1000 gal		
Total N	51.87			0.32			0.32		
P ₂ O ₅	48.15			2.9			2.9		
K ₂ O	54.6			3.5			3.5		
Application Timing and Method - To enter a Manure Application Timing and Method, use the "Select" button.	Spring		Incorporation after 7 days or none	Early Fall		Incorporation after 7 days or none	Spring		Incorporation after 7 days or none
1. Soil Test N Recommendation (lb N/A) ¹	85						157		
2. Soil Test P Recommendation (lb P ₂ O ₅ /A) ¹	38						43		
3. Soil Test K ₂ O Recommendation (lb K ₂ O/A) ¹	12						63		
4. Calculate K ₂ O balance?	Yes			Yes			Yes		
	N	P2O5	K2O	N	P2O5	K2O	N	P2O5	K2O
A) Recommendation or Removal (lb/A) - Tables 1, 2 & 3	85	38	12	192	60	84	157	43	63
B) Fertilizer Applied (lb/A)									
C) Other Organic Sources Applied (lb/A)									
D) Residual Manure N Management Residual Manure N Value (lb/A) - Table 4 (AG Table 1.2-14B)	Rarely 0			Continuous 35			Rarely 0		
E) Previous Legume N Management - To enter a previous legume N management, use the "Select" button.									
Previous Legume N Value (lb/A) - Table 5 (AG Table 1.2-7)	Soybeans, 60 bu/A 60			No Previous Year Legume 0			No Previous Year Legume 0		
F) Net Nutrient Requirement (lb/A)	25	38	12	157	60	84	157	43	63
H) N Availability Factor - Table 6 (AG Table 1.2-14A)	0.15			0.15			0.15		
I) Available Nitrogen (lb/ton, lb/1000 gal)	7.8			0.0			0.0		
J) Balanced Manure Rate (ton/A, gal/A)	3.2	0.8		3270833			3270833		
K) Planned Manure Rate Enter Rate →	2 ton/A Planned rate and P Index must be consistent.			6000 gal/A			6000 gal/A		
L) Nutrients Applied at Planned Rate (lb/A)	16	96	109	0	17	21	0	17	21
M) Nutrient Balance at Planned Rate (lb/A)	9	-58	-97	157	43	63	157	26	42
	Short	Excess	Excess	Short	Short	Short	Short	Short	Short
Note: Nutrient balances for P ₂ O ₅ and K ₂ O based on crop removal (Row A) should not be used to determine additional fertilizer needs. Only recommendations based on soil tests should be used for this purpose.	Nutrient balances for P2O5 and K2O are based on soil test recommendations.			Nutrient balances for P2O5 and K2O are based on crop removal (Row A).			Nutrient balances for P2O5 and K2O are based on soil test recommendations.		

Nutrient Balance Worksheet									
CMU/Field ID(s)	R1, R5, G1, G3,F1, F2 Soybeans 1st Egg Wash Water Application			R1, R5, G1, G3,F1, F2 Soybeans 2nd Egg Wash Water Application			Hillandale 3 & 5 Soybeans with one Egg Wash Water Application		
Manure Plan Basis	Option 3 - P Index evaluation required			Option 3 - P Index evaluation required			Option 3 - P Index evaluation required		
Option 1 - P Removal 1. Will P banking be used?	<input type="checkbox"/>			<input type="checkbox"/>			<input type="checkbox"/>		
Option 2 - N Requirement 1. Calculate P Balance? 2. Enter Soil test Value(s) (ppm Mehlich-3 P)	<input type="checkbox"/>			<input type="checkbox"/>			<input type="checkbox"/>		
Option 3 - P Index evaluation must be completed.	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		
Acres	142.4			142.4			57.2		
Crop Group - To enter a Crop Group use the "Select" button.	Soybeans with Manure			Soybeans with Manure			Soybeans with Manure		
Yield	60 bu/A			60 bu/A			60 bu/A		
Manure Group - To enter a Manure Group use the "Select" button	Egg Wash Water			Egg Wash Water			Egg Wash Water		
Manure Type	Poultry			Poultry			Poultry		
G) Manure Nutrient Content (lb/ton or lb/1000 gal)	lb/1000 gal			lb/1000 gal			lb/1000 gal		
Total N	0.32			0.32			0.32		
P ₂ O ₅	2.9			2.9			2.9		
K ₂ O	3.5			3.5			3.5		
Application Timing and Method - To enter a Manure Application Timing and Method, use the "Select" button.	Early Fall		Incorporation after 7 days or none	Spring		Incorporation after 7 days or none	Spring		Incorporation after 7 days or none
1. Soil Test N Recommendation (lb N/A) ¹				147					
2. Soil Test P Recommendation (lb P ₂ O ₅ /A) ¹				43					
3. Soil Test K ₂ O Recommendation (lb K ₂ O/A) ¹				63					
4. Calculate K ₂ O balance?	Yes			Yes			Yes		
	N	P2O5	K2O	N	P2O5	K2O	N	P2O5	K2O
A) Recommendation or Removal (lb/A) - Tables 1, 2 & 3	192	60	84	147	43	63	192	60	84
B) Fertilizer Applied (lb/A)									
C) Other Organic Sources Applied (lb/A)									
D) Residual Manure N Management Residual Manure N Value (lb/A) - Table 4 (AG Table 1.2-14B)	Continuous 35			Rarely 0			Continuous 35		
E) Previous Legume N Management - To enter a previous legume N management, use the "Select" button.	No Previous Year Legume			No Previous Year Legume			No Previous Year Legume		
Previous Legume N Value (lb/A) - Table 5 (AG Table 1.2-7)	0			0			0		
F) Net Nutrient Requirement (lb/A)	157	60	84	147	43	63	157	60	84
H) N Availability Factor - Table 6 (AG Table 1.2-14A)	0.15			0.15			0.15		
I) Available Nitrogen (lb/ton, lb/1000 gal)	0.0			0.0			0.0		
J) Balanced Manure Rate (ton/A, gal/A)	3270833	20690		3062500	14828		3270833	20690	
K) Planned Manure Rate Enter Rate →	6000 gal/A			6000 gal/A			6000 gal/A		
	Planned rate and P Index must be consistent.			Planned rate and P Index must be consistent.			Planned rate and P Index must be consistent.		
L) Nutrients Applied at Planned Rate (lb/A)	0	17	21	0	17	21	0	17	21
M) Nutrient Balance at Planned Rate (lb/A)	157	43	63	147	26	42	157	43	63
	Short	Short	Short	Short	Short	Short	Short	Short	Short
Note: Nutrient balances for P ₂ O ₅ and K ₂ O based on crop removal (Row A) should not be used to determine additional fertilizer needs. Only recommendations based on soil tests should be used for this purpose.	Nutrient balances for P2O5 and K2O are based on crop removal (Row A).			Nutrient balances for P2O5 and K2O are based on soil test recommendations.			Nutrient balances for P2O5 and K2O are based on crop removal (Row A).		

Appendix 1

Operation Maps

Maps (or aerial photographs) required to accompany Nutrient Balance Sheets must identify:

1. Crop management unit (field)
2. Acreage and boundaries
3. Manure application setback areas and buffers and associated landscape features
4. Location of in-field manure stacking areas (including each site in stacking rotation)

Jim Bailey Importer Map



Legend

- Local Roads
- AppSetback100ft
- AppSetbackImporter150ft
- Wells
- P-Based-Egg Wash Water Only
- P-Based- Egg Wash Water & 2 Ton Layer
- Fields
- WaterBody
- WaterLine
- NeighboringDwellings_Wells

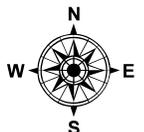


Jim Bailey Importer Map

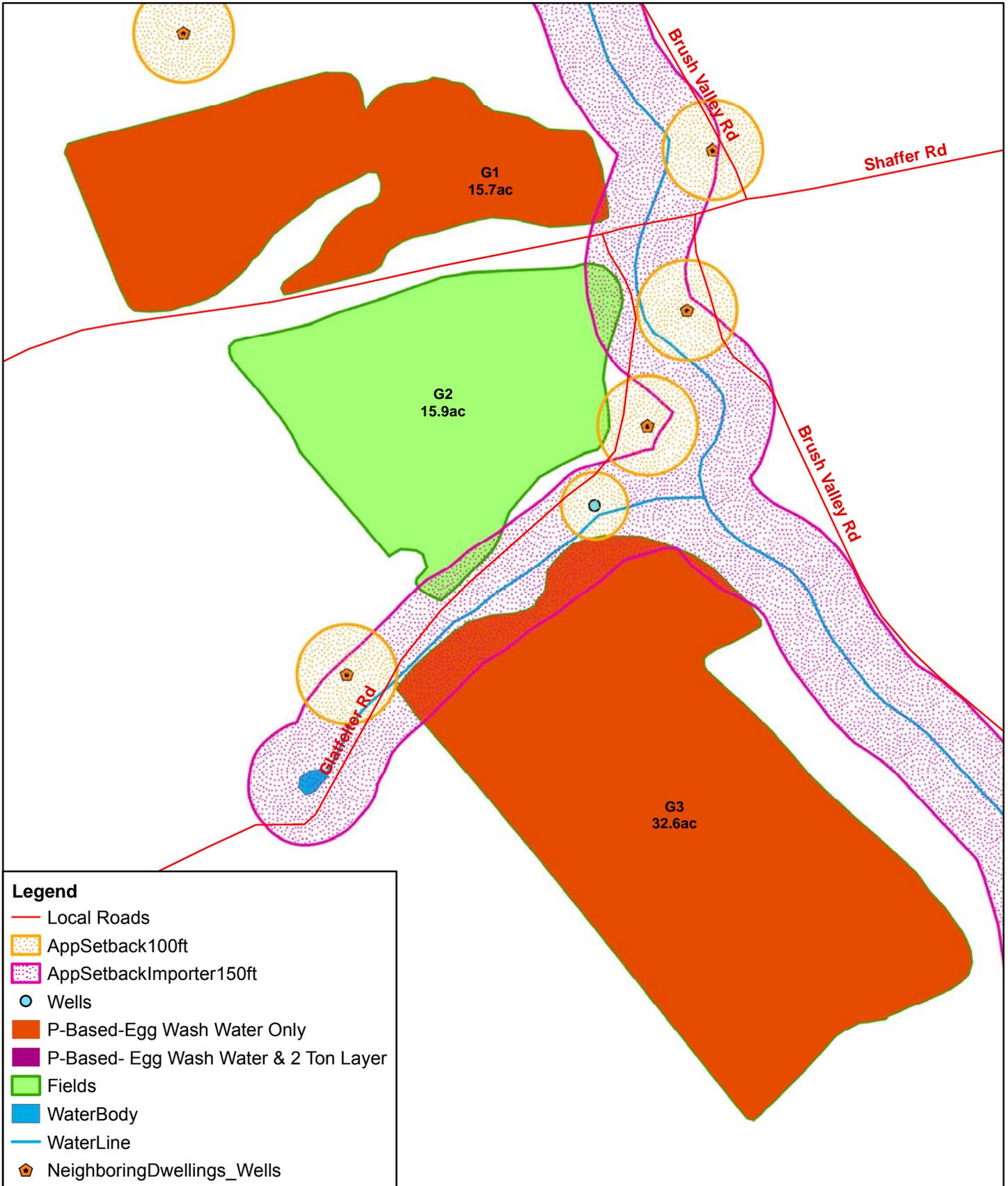


Legend

- Local Roads
- AppSetback100ft
- AppSetbackImporter150ft
- Wells
- P-Based-Egg Wash Water Only
- P-Based- Egg Wash Water & 2 Ton Layer
- Fields
- WaterBody
- WaterLine
- NeighboringDwellings_Wells



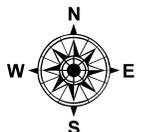
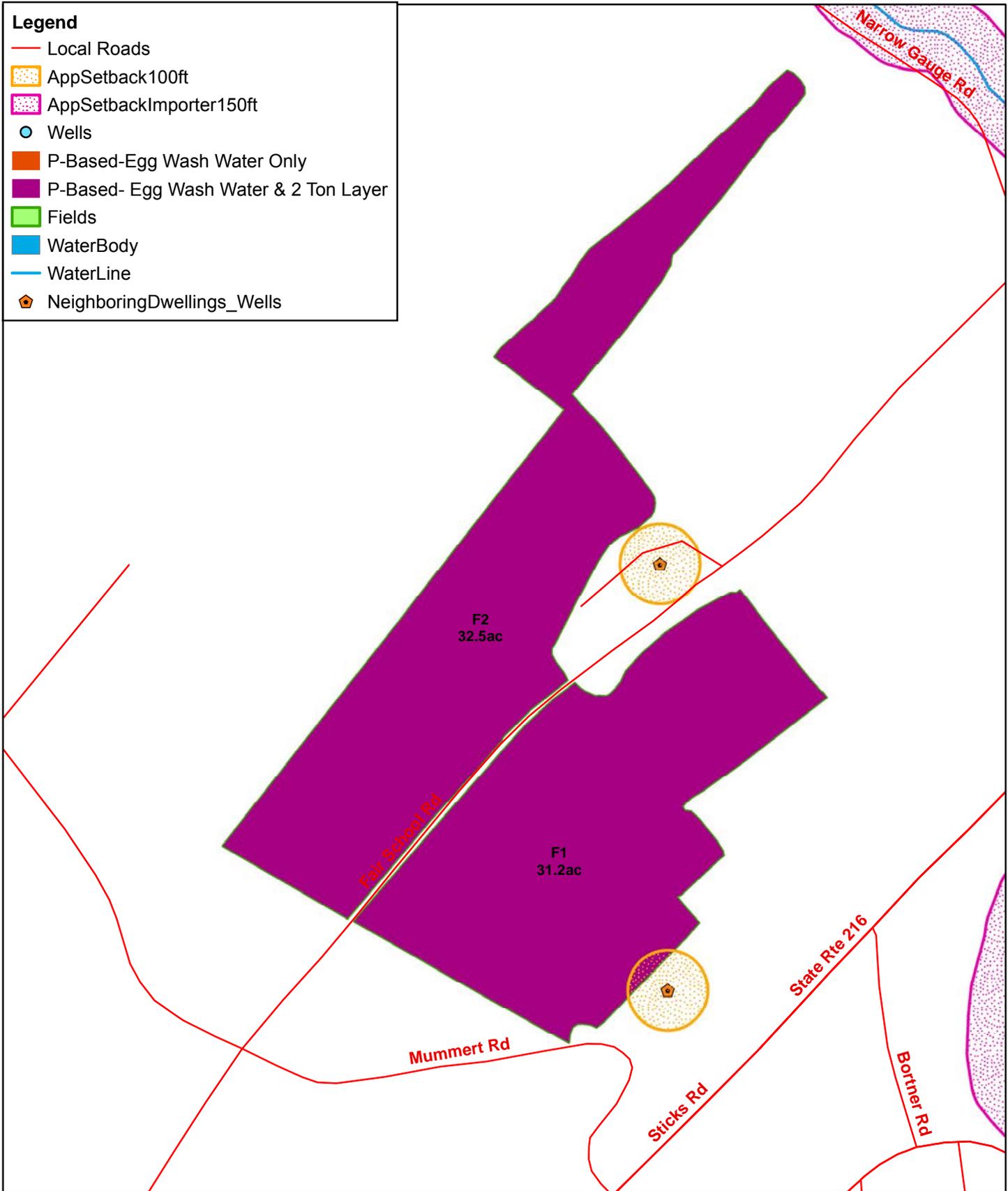
Jim Bailey Importer Map



Jim Bailey Importer Map

Legend

- Local Roads
- AppSetback100ft
- AppSetbackImporter150ft
- Wells
- P-Based-Egg Wash Water Only
- P-Based- Egg Wash Water & 2 Ton Layer
- Fields
- WaterBody
- WaterLine
- NeighboringDwellings_Wells



Appendix 2

Phosphorus Index

Include the current Pennsylvania Phosphorus Index Spreadsheet or paper worksheet for each field that required Part B of the P Index when using Manure Plan Basis Option 3.

	A	B	C	D	E	F	G	H	I	J
1	Pennsylvania P Index Version 2 (October 2009; Penn State, Dept. Crop & Soil Sciences & USDA-ARS, Pasture Systems & Watershed Mgmt. Research Unit)									
2	February 18, 2015									
3	FARM IDENTIFICATION		PART A: SCREENING TOOL			CMU/Field ID	H3	H5	R1	R5
4	Jim Bailey		Is the CMU in a Special Protection watershed?			If the answer is Yes to any of these questions, Part B must be used.	No	No	No	No
5			Is there a significant farm management change as defined by Act 38? (see below)				No	No	No	No
6			Is the Soil Test Mehlich 3 P greater than 200 ppm P? (enter soil test value in ppm)				432	428	264	239
7			Is the Contributing Distance from this CMU to receiving water less than 150 ft.?				No	No	Yes	Yes
8			The following Act 38 criteria determine when there is a significant farm management change:			Part B	Part B	Part B	Part B	
9			1. net increase of greater than 10% in AEU's per acre							
10			2. a change in crop management that results in a farmwide reduction of greater than 20% in nitrogen necessary for realistic expected crop yields							
11			3. alternative organic sources will replace all or some of the nutrient sources listed in the plan							
12			4. additional lands are brought into the operation (purchased or rented)							
13	PART B: SOURCE FACTORS					CMU/Field ID	H3	H5	R1	R5
14	SOIL TEST		Mehlich 3 Soil Test P (ppm P)				432	428	264	239
15	Soil Test Rating = 0.20* Mehlich 3 Soil Test P (ppm P)						86	86	53	48
16	FERTILIZER P RATE		Fertilizer P (lb P ₂ O ₅ /acre)							
17			P Applied from multiple fertilizer applications, if any (From Multiple Applications Calculator)				0	0	0	0
18	FERTILIZER APPLICATION METHOD	0.2 Placed or injected 2" or more deep	0.4 Incorporated <1 week following application	0.6 Incorporated > 1 week or not incorporated following application in April - October	0.8 Incorporated >1 week or not incorporated following application in Nov. - March	1.0 Surface applied to frozen or snow covered soil				
19	Fertilizer Rating = Fertilizer Rate x Fertilizer Application Method						0	0	0	0
20	MANURE P RATE		Manure P (lb P ₂ O ₅ /acre)				34.8	34.8	34.8	34.8
21			P Applied from multiple manure applications, if any (From Multiple Applications Calculator)				0	0	0	0
22	MANURE APPLICATION METHOD	0.2 Placed or injected 2" or more deep	0.4 Incorporated <1 week following application	0.6 Incorporated > 1 week or not incorporated following application in April - October	0.8 Incorporated >1 week or not incorporated following application in Nov. - March	1.0 Surface applied to frozen or snow covered soil	0.6	0.6	0.6	0.6
23	P SOURCE COEFFICIENT	Refer to: Test results for P Source Coefficient OR Book values from P Index Fact Sheet Table 1					0.8	0.8	0.8	0.8
24	Manure Rating = Manure Rate x Manure Application Method x P Source Coefficient						17	17	17	17
25	Source Factor Sum						103	103	70	65
26	PART B: TRANSPORT FACTORS					CMU/Field ID	H3	H5	R1	R5
27	EROSION	Soil Loss (ton/acre/yr)					0.3	0.3	0.3	0.7
28	RUNOFF POTENTIAL	0 Drainage Class is Excessively	2 Drainage Class is Somewhat Excessively	4 Drainage Class is Well/Moderately Well	6 Drainage Class is Somewhat Poorly	8 Drainage Class is Poorly/Very Poorly	4	4	4	4
29	SUBSURFACE DRAINAGE	0 None or No direct outlet to receiving water		1 Random Drainage - Outlets directly to receiving water		2* Patterned drainage - Outlets directly to receiving water	0	0	0	0
30	CONTRIBUTING DISTANCE	0 > 500 ft.	2 350 to 500 ft.	4 200 to 349 ft.	6 100 to 199 ft. OR < 100 ft. with 35 ft. buffer	9* < 100 ft.	6	6	6	6
31	Transport Sum = Erosion + Runoff Potential + Subsurface Drainage + Contributing Distance						10	10	10	11
32	MODIFIED CONNECTIVITY	0.85 50 ft. Riparian Buffer APPLIES TO DIST < 100 FT		1.0 Grassed Waterway or None		1.1 Direct Connection APPLIES TO DIST > 100 FT	1.0	1.0	1.0	1.0
33	* OR rapidly permeable soil near a stream						0.43	0.43	0.43	0.45
34	‡ "9" factor does <u>not</u> apply to fields with a 35 ft. buffer receiving manure.						89	89	60	59
35	MANAGEMENT GUIDANCE					Optional Calculators				
36	P Index Rating: Values	Nutrient Application Guidance			User Inputs 1. Manure Units (gal/A or T/A)					
37	Low: 59 or less	Nitrogen based management			2. N plan manure rate (units above)					
38	Medium: 60 to 79	Nitrogen based management			3. Manure P analysis (units above lb P ₂ O ₅)					
39	High: 80 to 99	Phosphorus limited to crop removal			P Applied at N Rate listed above in (2) (lb P ₂ O ₅ /A)					
40	Very High: 100 or greater	No Phosphorus applied								
41						User Input 4. Planned crop - P removal (lb P₂O₅/A)				
42						Actual total P applied based on values in PI above				
43						35 35 35 35				
44						User Input 5. Actual Planned Rate (units above)				
45						P Applied at Planned Rate (lb P ₂ O ₅ /A) Enter in MANURE P RATE above				
46						0 0 0 0				
47						Calculated Maximum Manure Rate (units above) (‡)				
48						P Applied at Calculated Maximum Rate (lb P ₂ O ₅ /A) (‡)				
49						#DIV/0! #DIV/0! #DIV/0! #DIV/0!				
50						#DIV/0! #DIV/0! #DIV/0! #DIV/0!				

‡ Missing data = Rate calculator requires all Manure Rating data be entered into the P Index.

NA = Rate calculator cannot determine a maximum rate with multiple manure applications.

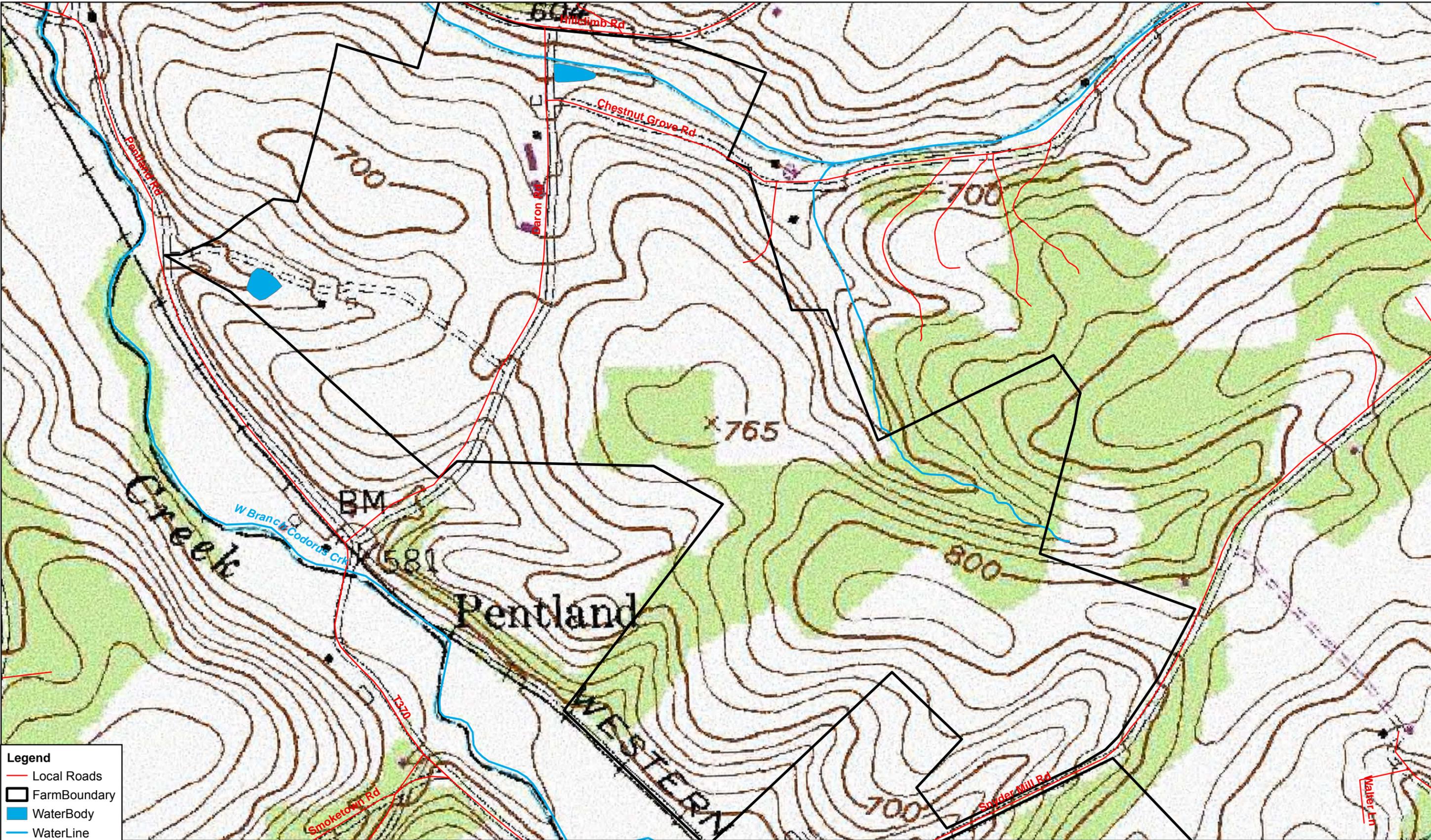
	A	K	L	M	N
1	Pennsylvania P Inde				
2	February 18, 2015				
3	FARM IDENTIFICATION	G1	G3	F1	F2
4	Jim Bailey	No	No	No	No
5		No	No	No	No
6		248	256	250	367
7		Yes	Yes	No	No
8		Part B	Part B	Part B	Part B
9					
10					
11					
12					
13	PART B: SOURCE FACT	G1	G3	F1	F2
14	SOIL TEST	248	256	250	367
15		50	51	50	73
16	FERTILIZER P RATE				
17		0	0	0	0
18	FERTILIZER APPLICATION METHOD				
19		0	0	0	0
20	MANURE P RATE	34.8	34.8	131.1	131.1
21		0	0	0	0
22	MANURE APPLICATION METHOD	0.6	0.6	0.6	0.6
23	P SOURCE COEFFICIENT	0.8	0.8	0.8	0.8
24		17	17	63	63
25		67	68	113	136
26	PART B: TRANSPORT F	G1	G3	F1	F2
27	EROSION	0.7	0.3	0.7	0.7
28	RUNOFF POTENTIAL	2	2	4	4
29	SUBSURFACE DRAINAGE	0	0	0	0
30	CONTRIBUTING DISTANCE	6	6	0	0
31		9	8	5	5
32	MODIFIED CONNECTIVITY	1.0	1.0	1.0	1.0
33	* OR rapidly permeable so	0.36	0.35	0.20	0.20
34	* "g" factor does <u>not</u> apply	48	48	45	54
35	MANAGEMENT GUIDAN				
36	P Index Rating: Values				
37	Low: 59 or less				
38	Medium: 60 to 79				
39	High: 80 to 99	0	0	0	0
40	Very High: 100 or greater				
41					
42		35	35	131	131
43					
44					
45		0	0	0	0
46					
47		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
48		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
49					
50					

Appendix 9

Operation Maps

Three types of maps are required for an Act 38 Nutrient Management Plan: 1) Topographic Map, 2) Soils Map, and 3) Operator Management Map. The **Topographic Map and Soils Map** must be included here. The Topographic Map must be drawn to scale and identify the land included in the plan with operation boundaries. The Soils Map must include field identification and boundaries, soils types and slopes with soils legend. Adding P Index lines can be helpful on the Topographic or Soils Map, but are not required. The Operator Management Map must be included in the Nutrient Management Plan Summary.

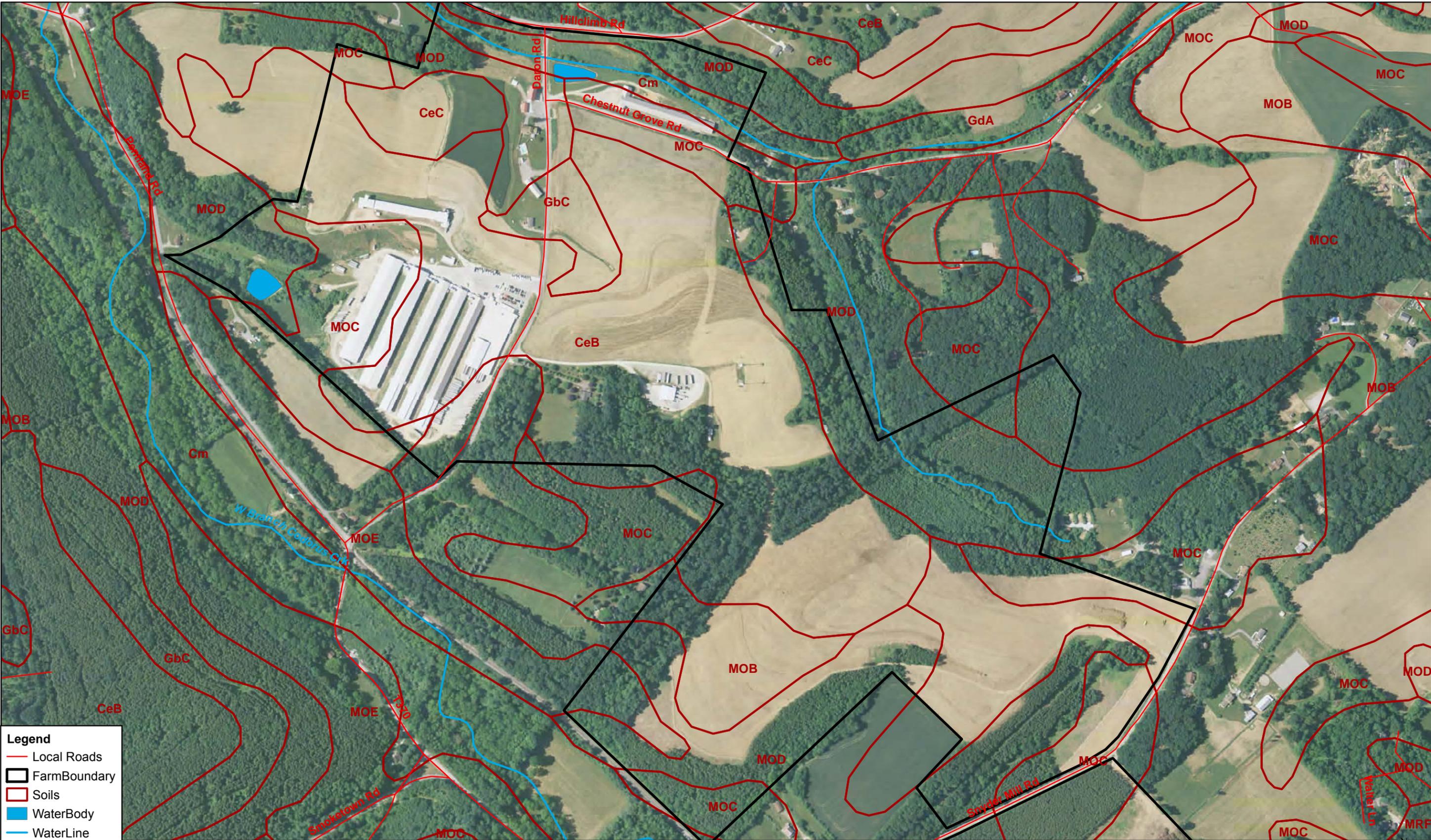
Hillandale Gettysburg, LP- Bailey Farms Topo Map



Legend

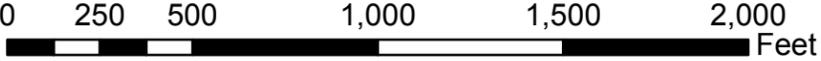
- Local Roads
- FarmBoundary
- WaterBody
- WaterLine

Hillandale Gettysburg, LP- Bailey Farms Soils Map



Legend

- Local Roads
- FarmBoundary
- Soils
- WaterBody
- WaterLine



York County Soils Legend

ArB	ARENDSVILLE GRAVELLY LOAM, 3 TO 8 PERCENT SLOPES	LfC	LANSDALE CHANNERY LOAM, 8 TO 15 PERCENT SLOPES
ArC	ARENDSVILLE GRAVELLY LOAM, 8 TO 15 PERCENT SLOPES	LgB	LEGORE CHANNERY SILT LOAM, 3 TO 8 PERCENT SLOPES
ArD	ARENDSVILLE GRAVELLY LOAM, 15 TO 25 PERCENT SLOPES	LgC	LEGORE CHANNERY SILT LOAM, 8 TO 15 PERCENT SLOPES
AtB	ATHOL GRAVELLY SILT LOAM, 3 TO 8 PERCENT SLOPES	LgD	LEGORE CHANNERY SILT LOAM, 15 TO 25 PERCENT SLOPES
AtC	ATHOL GRAVELLY SILT LOAM, 8 TO 15 PERCENT SLOPES	LhA	LEHIGH CHANNERY SILT LOAM, 0 TO 3 PERCENT SLOPES
Ba	BAILE SILT LOAM	LhB	LEHIGH CHANNERY SILT LOAM, 3 TO 8 PERCENT SLOPES
Be	BERMUDIAN SILT LOAM	LhC	LEHIGH CHANNERY SILT LOAM, 8 TO 15 PERCENT SLOPES
BgA	BIRDSBORO SILT LOAM, 0 TO 3 PERCENT SLOPES	LhD	LEHIGH CHANNERY SILT LOAM, 15 TO 25 PERCENT SLOPES
BgB	BIRDSBORO SILT LOAM, 3 TO 8 PERCENT SLOPES	LkB	LEHIGH CHANNERY SILT LOAM, 0 TO 8 PERCENT SLOPES, VERY STONY
BgC	BIRDSBORO SILT LOAM, 8 TO 15 PERCENT SLOPES	LrB	LEWISBERRY GRAVELLY SANDY LOAM, 3 TO 8 PERCENT SLOPES
Bo	BOWMANSVILLE SILT LOAM	LrC	LEWISBERRY GRAVELLY SANDY LOAM, 8 TO 15 PERCENT SLOPES
BrB	BRECKNOCK CHANNERY SILT LOAM, 3 TO 8 PERCENT SLOPES	Lw	LINDSIDE SILT LOAM
BrC	BRECKNOCK CHANNERY SILT LOAM, 8 TO 15 PERCENT SLOPES	MOB	MT. AIRY AND MANOR SOILS, 3 TO 8 PERCENT SLOPES
BrD	BRECKNOCK CHANNERY SILT LOAM, 15 TO 25 PERCENT SLOPES	MOC	MT. AIRY AND MANOR SOILS, 8 TO 15 PERCENT SLOPES
BsD	BRECKNOCK CHANNERY SILT LOAM, 8 TO 25 PERCENT SLOPES, VERY STONY	MOD	MT. AIRY AND MANOR SOILS, 15 TO 25 PERCENT SLOPES
BsF	BRECKNOCK CHANNERY SILT LOAM, 25 TO 60 PERCENT SLOPES, VERY STONY	MOE	MT. AIRY AND MANOR SOILS, 25 TO 35 PERCENT SLOPES
CcC	CATOCTIN CHANNERY SILT LOAM, 8 TO 15 PERCENT SLOPES	MPD	MT. AIRY AND MANOR SOILS, 8 TO 25 PERCENT SLOPES, VERY STONY
Cd	CHAGRIN SILT LOAM	MRF	MT. AIRY AND MANOR SOILS, 25 TO 60 PERCENT SLOPES, EXTREMELY STONY
CeB	CHESTER SILT LOAM, 3 TO 8 PERCENT SLOPES	MdA	MOUNT LUCAS SILT LOAM, 0 TO 3 PERCENT SLOPES
CeC	CHESTER SILT LOAM, 8 TO 15 PERCENT SLOPES	MdB	MOUNT LUCAS SILT LOAM, 3 TO 8 PERCENT SLOPES
CkA	CLARKSBURG SILT LOAM, 0 TO 3 PERCENT SLOPES	MeB	MOUNT LUCAS SILT LOAM, 0 TO 8 PERCENT SLOPES, VERY BOULDERY
CkB	CLARKSBURG SILT LOAM, 3 TO 8 PERCENT SLOPES	MvB	MURRILL GRAVELLY LOAM, 3 TO 8 PERCENT SLOPES
Cm	CODORUS SILT LOAM	MvC	MURRILL GRAVELLY LOAM, 8 TO 15 PERCENT SLOPES
CnA	CONESTOGA SILT LOAM, 0 TO 3 PERCENT SLOPES	NaB	NESHAMINY CHANNERY SILT LOAM, 3 TO 8 PERCENT SLOPES
CnB	CONESTOGA SILT LOAM, 3 TO 8 PERCENT SLOPES	NaC	NESHAMINY CHANNERY SILT LOAM, 8 TO 15 PERCENT SLOPES
CnC	CONESTOGA SILT LOAM, 8 TO 15 PERCENT SLOPES	NdB	NESHAMINY CHANNERY SILT LOAM, 0 TO 8 PERCENT SLOPES, EXTREMELY BOULDERY
CrA	CROTON SILT LOAM, 0 TO 3 PERCENT SLOPES	NdD	NESHAMINY CHANNERY SILT LOAM, 8 TO 25 PERCENT SLOPES, EXTREMELY BOULDERY
CrB	CROTON SILT LOAM, 3 TO 8 PERCENT SLOPES	NdE	NESHAMINY CHANNERY SILT LOAM, 25 TO 45 PERCENT SLOPES, EXTREMELY BOULDERY
DAM	DAMS	Pa	PENLAW SILT LOAM
DWD	DUFFIELD AND HAGERSTOWN SILT LOAMS, 15 TO 25 PERCENT SLOPES	PbB	PENN LOAM, 0 TO 8 PERCENT SLOPES, VERY STONY
DuA	DUFFIELD SILT LOAM, 0 TO 3 PERCENT SLOPES	PbD	PENN LOAM, 8 TO 25 PERCENT SLOPES, VERY STONY
DuB	DUFFIELD SILT LOAM, 3 TO 8 PERCENT SLOPES	PcF	PENN CHANNERY LOAM, 25 TO 50 PERCENT SLOPES, VERY STONY
DuC	DUFFIELD SILT LOAM, 8 TO 15 PERCENT SLOPES	PeB	PENN SILT LOAM, 3 TO 8 PERCENT SLOPES
Dx	DUMPS, REFUSE	PeC	PENN SILT LOAM, 8 TO 15 PERCENT SLOPES
EdB	EDGEMONT CHANNERY LOAM, 3 TO 8 PERCENT SLOPES	PoB	PENN-KLINESVILLE CHANNERY SILT LOAMS, 3 TO 8 PERCENT SLOPES
EdC	EDGEMONT CHANNERY LOAM, 8 TO 15 PERCENT SLOPES	PoC	PENN-KLINESVILLE CHANNERY SILT LOAMS, 8 TO 15 PERCENT SLOPES
EdD	EDGEMONT CHANNERY LOAM, 15 TO 25 PERCENT SLOPES	PpB	PENN-LANSDALE COMPLEX, 3 TO 8 PERCENT SLOPES
EeB	EDGEMONT CHANNERY LOAM, 0 TO 8 PERCENT SLOPES, VERY STONY	PpC	PENN-LANSDALE COMPLEX, 8 TO 15 PERCENT SLOPES
EeD	EDGEMONT CHANNERY LOAM, 8 TO 25 PERCENT SLOPES, VERY STONY	PsB	PEQUEA SILT LOAM, 3 TO 8 PERCENT SLOPES
EeF	EDGEMONT CHANNERY LOAM, 25 TO 70 PERCENT SLOPES, VERY STONY	PsC	PEQUEA SILT LOAM, 8 TO 15 PERCENT SLOPES
Eka	ELK SILT LOAM, 0 TO 3 PERCENT SLOPES	PsD	PEQUEA SILT LOAM, 15 TO 25 PERCENT SLOPES
EkB	ELK SILT LOAM, 3 TO 8 PERCENT SLOPES	Pt	PITS, QUARRIES
GbB	GLENELG CHANNERY SILT LOAM, 3 TO 8 PERCENT SLOPES	RaA	RARITAN SILT LOAM, 0 TO 3 PERCENT SLOPES
GbC	GLENELG CHANNERY SILT LOAM, 8 TO 15 PERCENT SLOPES	RaB	RARITAN SILT LOAM, 3 TO 8 PERCENT SLOPES
GbD	GLENELG CHANNERY SILT LOAM, 15 TO 25 PERCENT SLOPES	ReA	READINGTON SILT LOAM, 0 TO 3 PERCENT SLOPES
GdA	GLENVILLE SILT LOAM, 0 TO 3 PERCENT SLOPES	ReB	READINGTON SILT LOAM, 3 TO 8 PERCENT SLOPES
GdB	GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES	RfB	REAVILLE CHANNERY SILT LOAM, 3 TO 8 PERCENT SLOPES
HHD	HIGHFIELD AND CATOCTIN CHANNERY SILT LOAMS, 15 TO 25 PERCENT SLOPES	RfC	REAVILLE CHANNERY SILT LOAM, 8 TO 15 PERCENT SLOPES
HKD	HIGHFIELD, CATOCTIN AND MYERSVILLE SOILS, 8 TO 25 PERCENT SLOPES, VERY STONY	Rw	ROWLAND SILT LOAM
HaA	HAGERSTOWN SILT LOAM, 0 TO 3 PERCENT SLOPES	StC	STEINBURG CHANNERY SANDY LOAM, 8 TO 15 PERCENT SLOPES
HaB	HAGERSTOWN SILT LOAM, 3 TO 8 PERCENT SLOPES	StD	STEINBURG CHANNERY SANDY LOAM, 15 TO 25 PERCENT SLOPES
HaC	HAGERSTOWN SILT LOAM, 8 TO 15 PERCENT SLOPES	Uc	URBAN LAND
Hc	HATBORO SILT LOAM	UdB	URBAN LAND-CHESTER COMPLEX, 0 TO 8 PERCENT SLOPES
HgB	HIGHFIELD CHANNERY SILT LOAM, 3 TO 8 PERCENT SLOPES	UeB	URBAN LAND-CONESTOGA COMPLEX, 0 TO 8 PERCENT SLOPES
HgC	HIGHFIELD CHANNERY SILT LOAM, 8 TO 15 PERCENT SLOPES	UfC	URBAN LAND - MT. AIRY COMPLEX, 8 TO 15 PERCENT SLOPES
KnD	KLINESVILLE CHANNERY SILT LOAM, 15 TO 25 PERCENT SLOPES	UgB	URBAN LAND-PENN COMPLEX, 0 TO 8 PERCENT SLOPES
KnE	KLINESVILLE CHANNERY SILT LOAM, 25 TO 40 PERCENT SLOPES	W	WATER
LSD	LEWISBERRY AND LANSDALE SOILS, 8 TO 25 PERCENT SLOPES, VERY STONY	WaA	WATCHUNG SILT LOAM, 0 TO 3 PERCENT SLOPES
Lc	LAMINGTON SILT LOAM	WaB	WATCHUNG SILT LOAM, 3 TO 8 PERCENT SLOPES
LeB	LANSDALE LOAM, 3 TO 8 PERCENT SLOPES	WbB	WATCHUNG SILT LOAM, 0 TO 8 PERCENT SLOPES, EXTREMELY BOULDERY

Appendix 10

Supporting Information & Documentation

Includes if applicable the Rainfall Additions Worksheet, Winter Application Matrix, Residual N Calculation Worksheet and other supplemental worksheets included in the NMP Spreadsheet. Attach information and documentation necessary to support plan content not included elsewhere in the NMP Spreadsheet or appendices. Examples include, but are not limited to, documentation of animal weights if Agronomy Facts 54 is not used, bedding calculations, or calculations for irrigation rates.

Egg Wash Water Calcs:

Hillandale- Bailey Farm 1,072,300 wash water from records/ 1,280,000 birds = .84gal/bird

.84gal/bird * 60,500 birds= 50,820gal + 1,073,500 existing wash water from records at Site 1=1,124,320gal egg wash water Site 1

.84 gal/bird * 2,000,000 birds = 1,680,000gal + 223,839 gal of rain fall= 1,903,839 gallons of egg wash water Site 2

Manure Calcs:

950 tons of free range layer manure from records + 1,148 tons of proposed free range layer manure from book value= 2,098 tons

Manure Application Setbacks

I. Year Round Manure Application Setbacks on Act 38 Farms and Importers:

- A. 100 feet from streams (intermittent and perennial), lakes, ponds, and open existing sinkholes; unless there is a permanent vegetative buffer at least 35 feet in width next to the stream, in which case there will be a 35ft manure application setback.
 - i. A Stream is a body of water flowing in a defined bed and bank (composed primarily of substances associated with flowing water) which, during periods of the year, is below the water table and contains its flow from both surface and groundwater discharge.
 - ii. Permanent Vegetative Buffers are non-cultivated areas composed of perennial vegetation including haylands, pasturelands, grasslands, forested areas, or natural shrubs and other woody plants. The Nutrient Management Program
- B. 100 feet from active private water wells
- C. 100 feet from active public water wells unless other state or federal programs require a larger setback

II. Winter Manure Application Setbacks on Act 38 Farms and Importers:

(Winter is defined as December 15th -February 28th, or when the ground is frozen 4 inches deep, or when the ground is snow covered)

- A. 100 feet from the inlet to aboveground agricultural drainage systems if the surface flow is toward the inlet.
- B. 100 feet from a wetland identified on the National Wetlands Inventory Maps, which is within the 100 year floodplain of an Exceptional Value stream and the surface flow is toward the wetland.

III. Additional Imported Manure Application Setbacks:

(on farms receiving manure from CAOs, CAFOs and volunteers)

- A. 150 feet from the top of the bank of a stream (intermittent and perennial), lake or pond if the Phosphorus Index is not run on the given field.

County York			
Evaporation or no Evaporation		Evaporation - Directly on Storage	
Paved or Unpaved			
Manure Group	Egg Wash Water- Site 2	223839	gallons of rain water added to this manure group
Beginning Month (1-12)	1		
Ending Month (1-12)	12	Gallons of water for this manure group	
Storage Surface Area (Sq. ft.)	33750	223839	gallons directly on storage
Runoff Surface Area (Sq. ft.)		0	gallons directed to storage

**MANURE STORAGE WINTER CAPACITY PLANNING LEVEL DETERMINATION SPREADSHEET
for Sloped Waste Storage Facilities**

This spreadsheet is one option to solve for the required Vertical storage depth for CAFO's going into the winter storage period. Sloped interiors result in a variation of capacity per unit of depth. Using four inputs, the program generates a set of data for the facility volume. Additional data determines the vertical depths and volumes to be subtracted from the total storage depth. The final step is a simple trial and error input to develop the vertical depth required. Outputs include a summary planview, x-section, and a Stage-Storage curve.

Note: User to fill in all Blue cells

Operator or Farm Name:	Hillandale Bailey	Storage ID or Name:	HDPE Lagoon
Completed by:	Corey Grove	County:	York
<u>Data Input</u>	(Enter data in light blue cells)	Date:	3/5/15

**Storage Pond Dimensions being
Evaluated**

Width of Storage	"W"	150	Feet	(Measured at inside top of slope)			
Length of Storage	"L"	225	Feet	(Measured at inside top of slope)			
Depth of Storage	"D"	13.5	Feet	(Measured from top of embankment to pumpout depth)			
Interior Side Slope		2.5	:1	(Commonly 2.5, but can be 2.0 or 3.0)			
Freeboard		2	Feet	(See Guidelines: Either 1' or 2' for all sites)			
25yr or 100 yr 24 hr rainfall		5.7	Inches	(See Table 5 and use value or highest in range or Go to NOAA 14)			
Net Rainfall over pit	Dec Net	2.21	inches	Paved Lot runoff Dec Net		inches	
(From Supplement 7	Jan Net	1.91	inches	(If paved area drains into	Jan Net		inches
Assume evap.)	Feb Net	1.81	inches	storage)	Feb Net		inches

NOTE: The Dec Net value will be prorated 17/31 to reflect partial value for Dec.)

Paved Drainage Area into storage	0	Square Feet	(Enter Zero if none)
Manure, washwater, bedding excluding any outside drainage areas over 76 days	678,794	Gallons	(This is derived from data in Appendix 3 by getting daily production and multiplying by 76.) (Dec 15 thru Feb 28 or 76 Days)

Note: User to use Trial and Error in Olive Green Cell to find minimum Depth

Outputs & Results

(Yellow cells auto-filled)

Hillandale Bailey
HDPE Lagoon

Depth from top of storage **13.5** Feet

Depth after subtracting Freeboard **11.5** Feet

1,806,062 Gallons of storage at this depth

Combined volume of wastes over 76 days, paved lot, 24 hr and net rainfall over storage **902,463** Gallons

Vol. of wastes over 76 days	678,794 Gallons
Vol. of runoff from paved lot	0 Gallons
Vol. of 24hr event over top area	119,914 Gallons
Vol. of Net rainfall over top area	103,756 Gallons
Vol. of 24hr event over drainage area	0 Gallons

Maximum Volume entering winter period **903,598** Gallons

Enter the highest value that does not exceed **Maximum Volume** shown above. Watch corresponding volume for selected depth, shown to left to assist you in the process.

6.8 Feet **888,039** Gallons Shows Volume at your selected depth
Depth selected gets as close to **Maximum volume** without going over

This is the minimum vertical distance from the top of the embankment to the top of the manure level on Dec. 15

6.7 Feet

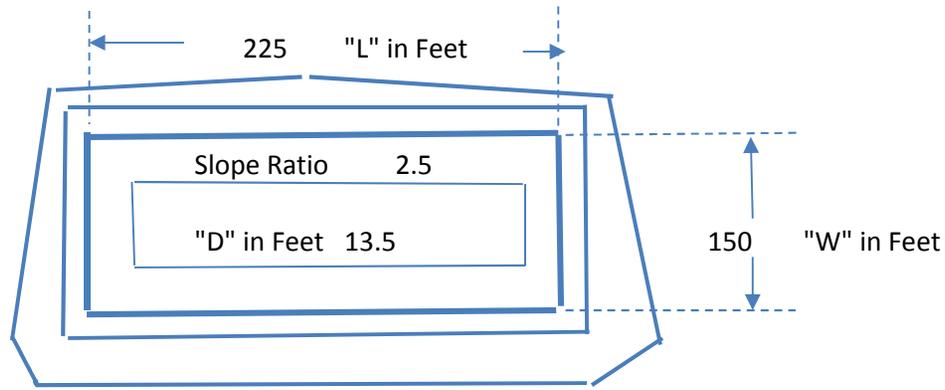
or

The equivalent slope distance from top of embankment to manure level on Dec. 15

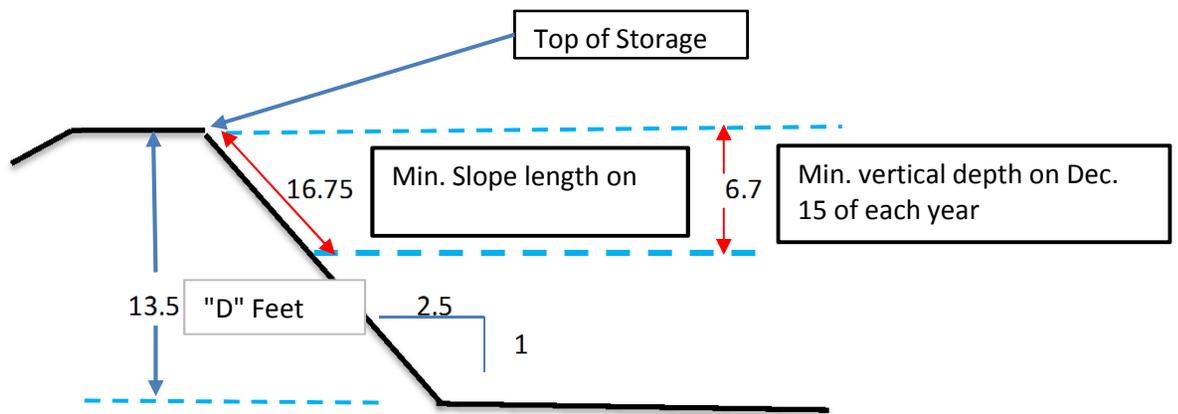
16.75 Feet

Hillandale Bailey

HDPE Lagoon

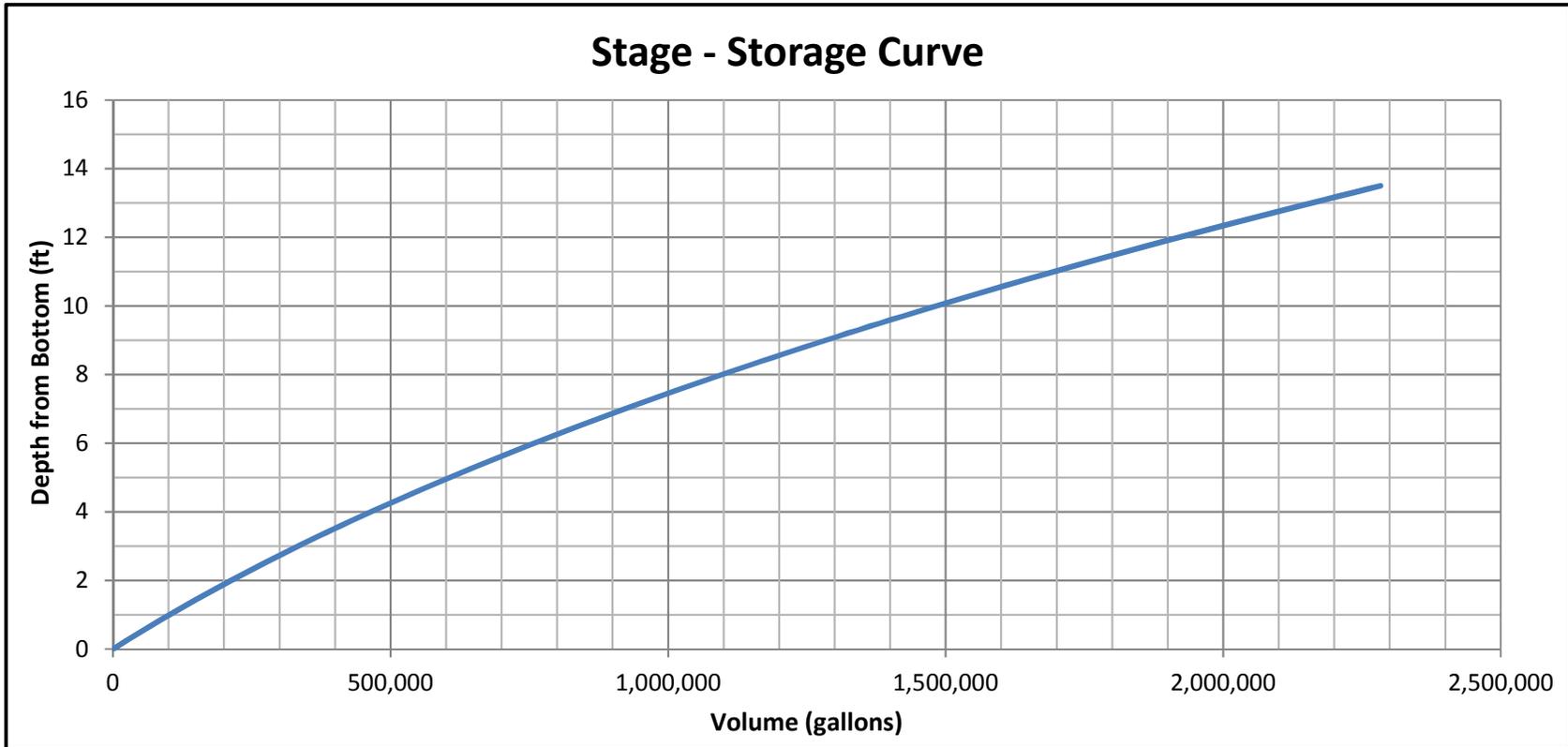


PLANVIEW OF SITE



OUTPUT SUMMARY X-SECTION

(Includes runoff from a 0 Square foot paved lot)



This chart shows capacity at any depth starting from bottom

Disclaimer: This program assumes constant interior slopes and a flat bottom. No credit is given for sloped bottoms or ramp volumes. Therefore the use of a Stage Storage Curve generated from "As-built" data is recommended, if available from your Engineering Consultant.

STAFF RECOMMENDATION

Chart A illustrates a distribution of CDFAP FY2015-16 proposed 'Line Item' appropriations AND a **50/50 split** of UGW Funds (UGWF) distributed by the State Conservation Commission under the CDFAP Statement of Policy. Applies the **PACD Policy recommendation** of a **\$15,000 base grant** to each county with unconventional gas wells. A per well credit based on a **5 year average** of spudded wells, in their respective county, based on well count information provided by DEP.

A 3 year average of spudded wells was recommended by PACD. Based on discussions by the SCC members at the May 12, 2015 Commission meeting, staff is recommends using a 5 year average.

This option somewhat splits the difference between the PACD 3 year average and the total number of spudded wells that has been used for the last three years for determining allocations.

CDFAP/UGW Available Funding (FY2015-16)

PUC Block Grant	\$	3,750,000
CDFAP/UGWF	\$	3,750,000
DEP 'Line Item' Approp.	\$	2,506,000
PDA 'Line Item' Approp.	\$	869,000
Total	\$	10,875,000

DISTRIBUTION INFORMATION 'DENOTED' BY COLUMN/ITEM ('A' thru 'E')

A = UGW 'Block Grant' - \$.375M/66 districts - equal amounts distributed by PUC to ALL districts

B1, B2 & B3 = DEP/PDA 'Line Items' (\$.375M)

- 1) Supports 'department' program priorities (Manager, E&S Tech, ACT)
- 2) Relative to FY2014-15 distribution
 - ¹ DM funding - NO CHANGE
 - ² 1st Tech - NO CHANGE
 - ³ ACT- REDUCED due to additional CDs receiving funds

C = 'CDFAP/UGWF Monies' - 50% of SCC UGW (\$1.6175M) - equal amount distributed to ALL districts - DECREASED

D = 'UGWF Year 4' - 50% of SCC UGW (\$1.76175M) - DECREASED
 1) \$15,000 base grant ONLY to counties with documented 'spudded' unconventional gas wells.

2) Funding distributed ONLY to counties based on a 5 year average of DEP documented unconventional (Marcellus) well counts.

E = Funding needs for 'priority' statewide special projects (~ \$515,000) - INCREASED

- 1) Allocated from UGW funds prior to allocation to CDFAP priorities and well count districts.

New Scenario Not Previously Presented

A FY2015-16 Line Item + UGW (50/50) \$15,000 base 5 yr. Avg. Rev: 6/17/2015	A PUC UGW Block Grant to CCDs Year 4 (2014 funds) \$3,750,000 (\$56,818.18)	Allocation of CDFAP Line Items and \$1,617,500 (50%) SCC UGWF Monies - Statewide Special Projects (SSP) segregated as allocation item 'E'					Additional CDFAP Allocation of Remaining \$1,617,500 (50%) of SCC UGWF Monies		PUC UGW Block Grant + CDFAP Line Items + SCC UGWF Funds = Total Year 4 CDFAP & UGW Funds (2014 UGWF funds)		
		B1 Manager (\$22,399.00)	B2 1st E&S Tech. (\$15,650.00)	B3 ACT Tech. (\$16,218.96)	Ensement Support (Farmland) (\$0)	CDFAP General Adm. (\$0)	C CDFAP UGWF Monies (\$24,507.57)	TOTAL	%	Average Unconventional Well Count per County for 2010 - 2014 as collected by DEP	D UGWF Year 4 \$3.75 M - CDFAP UGWF Monies - SSP = \$1,617,500 (\$15,000 base + \$ 743.94 /well)
Adams	\$ 56,818	\$ 22,399	\$ 15,650	\$ 16,219		\$ 24,508	\$ 78,776	1.58%		\$ 135,594	
Allegheny	\$ 56,818	\$ 22,399	\$ 15,650	\$ 16,219		\$ 24,508	\$ 78,776	1.58%	12.2	\$ 24,076	
Armstrong	\$ 56,818	\$ 22,399	\$ 15,650	\$ 16,219		\$ 24,508	\$ 78,776	1.58%	34.4	\$ 40,592	
Beaver	\$ 56,818	\$ 22,399	\$ 15,650	\$ 16,219		\$ 24,508	\$ 78,776	1.58%	8.8	\$ 21,547	
Bedford	\$ 56,818	\$ 22,399	\$ 15,650	\$ 16,219		\$ 24,508	\$ 78,776	1.58%	0.2	\$ 15,149	
Berks	\$ 56,818	\$ 22,399	\$ 15,650	\$ 16,219		\$ 24,508	\$ 78,776	1.58%			
Blair	\$ 56,818	\$ 22,399	\$ 15,650	\$ 13,119		\$ 24,508	\$ 75,676	1.52%	1.2	\$ 15,893	
Bradford	\$ 56,818	\$ 22,399	\$ 15,650	\$ 16,219		\$ 24,508	\$ 78,776	1.58%	194.6	\$ 159,771	
Bucks	\$ 56,818	\$ 22,399	\$ 15,650	\$ 16,219		\$ 24,508	\$ 78,776	1.58%			
Butler	\$ 56,818	\$ 22,399	\$ 15,650			\$ 24,508	\$ 62,557	1.25%	67.2	\$ 64,993	
Cambria	\$ 56,818	\$ 22,399	\$ 15,650	\$ 16,219		\$ 24,508	\$ 78,776	1.58%	1.0	\$ 15,744	
Cameron	\$ 56,818	\$ 21,529	\$ 15,650	\$ 16,219		\$ 24,508	\$ 77,906	1.56%	7.6	\$ 20,654	
Carbon	\$ 56,818	\$ 22,399	\$ 15,650			\$ 24,508	\$ 62,557	1.25%			
Centre	\$ 56,818	\$ 22,399	\$ 15,650	\$ 16,219		\$ 24,508	\$ 78,776	1.58%	7.6	\$ 20,654	
Chester	\$ 56,818	\$ 22,399	\$ 15,650	\$ 16,219		\$ 24,508	\$ 78,776	1.58%			
Clarion	\$ 56,818	\$ 22,399	\$ 15,650			\$ 24,508	\$ 62,557	1.25%	3.6	\$ 17,678	
Clearfield	\$ 56,818	\$ 22,399	\$ 15,650	\$ 8,969		\$ 24,508	\$ 71,526	1.43%	22.2	\$ 31,515	
Clinton	\$ 56,818	\$ 22,399	\$ 15,650	\$ 16,219		\$ 24,508	\$ 78,776	1.58%	14.8	\$ 26,010	
Columbia	\$ 56,818	\$ 22,399	\$ 15,650	\$ 16,219		\$ 24,508	\$ 78,776	1.58%	0.2	\$ 15,149	
Crawford	\$ 56,818	\$ 22,399	\$ 15,650	\$ 16,219		\$ 24,508	\$ 78,776	1.58%	0.6	\$ 15,446	
Cumberland	\$ 56,818	\$ 22,399	\$ 15,650			\$ 24,508	\$ 62,557	1.25%			
Dauphin	\$ 56,818	\$ 22,399	\$ 15,650	\$ 16,219		\$ 24,508	\$ 78,776	1.58%			
Delaware	\$ 56,818	\$ 22,399	\$ 15,650	\$ 7,890		\$ 24,508	\$ 70,447	1.41%			
Elk	\$ 56,818	\$ 22,399	\$ 15,650	\$ 16,219		\$ 24,508	\$ 78,776	1.58%	13.0	\$ 24,671	
Erie	\$ 56,818	\$ 22,399	\$ 15,650	\$ 16,219		\$ 24,508	\$ 78,776	1.58%	0.0	\$ 15,000	
Fayette	\$ 56,818	\$ 22,399	\$ 15,650	\$ 16,219		\$ 24,508	\$ 78,776	1.58%	38.2	\$ 43,419	
Forest	\$ 56,818	\$ 22,399	\$ 11,296			\$ 24,508	\$ 58,203	1.17%	3.2	\$ 17,381	
Franklin	\$ 56,818	\$ 22,399	\$ 15,650	\$ 16,219		\$ 24,508	\$ 78,776	1.58%			
Fulton	\$ 56,818	\$ 22,399	\$ 15,650	\$ 16,219		\$ 24,508	\$ 78,776	1.58%			
Greene	\$ 56,818	\$ 22,399	\$ 15,650	\$ 16,219		\$ 24,508	\$ 78,776	1.58%	139.8	\$ 119,003	
Huntingdon	\$ 56,818	\$ 22,399	\$ 15,650			\$ 24,508	\$ 62,557	1.25%	0.2	\$ 15,149	
Indiana	\$ 56,818	\$ 22,399	\$ 15,650	\$ 16,219		\$ 24,508	\$ 78,776	1.58%	6.0	\$ 19,464	
Jefferson	\$ 56,818	\$ 22,399	\$ 15,650	\$ 16,219		\$ 24,508	\$ 78,776	1.58%	9.8	\$ 22,291	
Juniata	\$ 56,818	\$ 22,399	\$ 15,650	\$ 16,219		\$ 24,508	\$ 78,776	1.58%			
Lackawanna	\$ 56,818	\$ 22,399	\$ 15,650	\$ 2,500		\$ 24,508	\$ 65,057	1.30%			
Lancaster	\$ 56,818	\$ 22,399	\$ 15,650	\$ 16,219		\$ 24,508	\$ 78,776	1.58%			
Lawrence	\$ 56,818	\$ 22,399	\$ 15,650	\$ 16,219		\$ 24,508	\$ 78,776	1.58%			
Lebanon	\$ 56,818	\$ 22,399	\$ 15,650	\$ 16,219		\$ 24,508	\$ 78,776	1.58%			
Lehigh	\$ 56,818	\$ 22,399	\$ 15,650	\$ 16,219		\$ 24,508	\$ 78,776	1.58%			
Luzerne	\$ 56,818	\$ 22,399	\$ 15,650	\$ 16,219		\$ 24,508	\$ 78,776	1.58%			
Lycoming	\$ 56,818	\$ 22,399	\$ 15,650	\$ 16,219		\$ 24,508	\$ 78,776	1.58%			
McKean	\$ 56,818	\$ 22,399	\$ 15,650	\$ 16,219		\$ 24,508	\$ 78,776	1.58%	166.2	\$ 138,643	
Mercer	\$ 56,818	\$ 22,399	\$ 15,650			\$ 24,508	\$ 62,557	1.25%	13.6	\$ 25,118	
Mifflin	\$ 56,818	\$ 22,399	\$ 15,650	\$ 16,219		\$ 24,508	\$ 78,776	1.58%	7.0	\$ 20,208	
Monroe	\$ 56,818	\$ 22,399	\$ 15,650	\$ 16,219		\$ 24,508	\$ 78,776	1.58%			
Montgomery	\$ 56,818	\$ 22,399	\$ 15,650	\$ 16,219		\$ 24,508	\$ 78,776	1.58%			
Montour	\$ 56,818	\$ 22,399	\$ 15,650	\$ 16,219		\$ 24,508	\$ 78,776	1.58%			
Northampton	\$ 56,818	\$ 22,399	\$ 15,650	\$ 16,219		\$ 24,508	\$ 78,776	1.58%			
Northumberland	\$ 56,818	\$ 22,399	\$ 15,650			\$ 24,508	\$ 62,557	1.25%			
Perry	\$ 56,818	\$ 22,399	\$ 15,650	\$ 16,219		\$ 24,508	\$ 78,776	1.58%			
Philadelphia											
Pike	\$ 56,818	\$ 22,399	\$ 15,650			\$ 24,508	\$ 62,557	1.25%			
Potter	\$ 56,818	\$ 22,399	\$ 15,650	\$ 16,219		\$ 24,508	\$ 78,776	1.58%	8.2	\$ 21,100	
Schuylkill	\$ 56,818	\$ 22,399	\$ 15,650	\$ 16,219		\$ 24,508	\$ 78,776	1.58%			
Snyder	\$ 56,818	\$ 22,399	\$ 15,650	\$ 16,219		\$ 24,508	\$ 78,776	1.58%			
Somerset	\$ 56,818	\$ 22,399	\$ 15,650	\$ 16,219		\$ 24,508	\$ 78,776	1.58%	3.2	\$ 17,381	
Sullivan	\$ 56,818	\$ 22,399	\$ 15,650	\$ 9,355		\$ 24,508	\$ 71,912	1.44%	22.8	\$ 31,962	
Susquehanna	\$ 56,818	\$ 22,399	\$ 15,650	\$ 16,219		\$ 24,508	\$ 78,776	1.58%	192.2	\$ 157,985	
Tioga	\$ 56,818	\$ 22,399	\$ 15,650	\$ 16,219		\$ 24,508	\$ 78,776	1.58%	141.4	\$ 120,193	
Union	\$ 56,818	\$ 22,399	\$ 15,650	\$ 16,219		\$ 24,508	\$ 78,776	1.58%			
Venango	\$ 56,818	\$ 22,399	\$ 15,650	\$ 16,219		\$ 24,508	\$ 78,776	1.58%	1.2	\$ 15,893	
Warren	\$ 56,818	\$ 22,399	\$ 15,650	\$ 16,219		\$ 24,508	\$ 78,776	1.58%	0.4	\$ 15,298	
Washington	\$ 56,818	\$ 22,399	\$ 15,650	\$ 16,219		\$ 24,508	\$ 78,776	1.58%	191.2	\$ 157,241	
Wayne	\$ 56,818	\$ 22,399	\$ 15,650	\$ 16,219		\$ 24,508	\$ 78,776	1.58%			
Westmoreland	\$ 56,818	\$ 22,399	\$ 15,650	\$ 16,219		\$ 24,508	\$ 78,776	1.58%	36.8	\$ 42,377	
Wyoming	\$ 56,818	\$ 22,399	\$ 15,650			\$ 24,508	\$ 62,557	1.25%	45.8	\$ 49,072	
York	\$ 56,818	\$ 22,399	\$ 15,650	\$ 16,219		\$ 24,508	\$ 78,776	1.58%			
Totals	\$ 3,750,000	\$ 1,477,464	\$ 1,028,546	\$ 869,000	\$ -	\$ -	\$ 1,617,500	\$ 4,992,510	100.00%	1428.2	\$ 1,617,495

\$2,506,010	\$869,000
\$3,375,010	

E Statewide Special Projects (SSP)	
GreenPort Upgrade	\$ 200,000
ACT Boot Camp	\$ 20,000
Leadership Development	\$ 200,000
Ombudsman	\$ 95,000
Total	\$ 515,000

Grand Total of All Allocations \$ 10,875,005

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October 13, 2015

State Conservation Commission
Agriculture Building, Room 310
2301 North Cameron Street
Harrisburg, PA 17110

RE: Hillendale Gettysburg, LP- Bailey Farm Sites 1 and 2 NMP

Dear Sirs:

I am submitting the following comments on behalf of my client Friends of York County Family Farms on the revised Nutrient Management Plan ("NMP") submitted by Hillendale Gettysburg, LP for its Bailey Farms Site 1 and Site 2 CAFO operation ("Hillendale"). The notice published in the September 12, 2015 edition of the Pennsylvania Bulletin provided for a 30 day period for public comment. As Monday October 12 was a legal holiday, we are submitting these comments today. The Bulletin notice indicated copies of the proposed NMP would be available at the York County Conservation District ("District") offices and that comments should be submitted to the District with a copy to the State Conservation Commission ("Commission"). The District did not have a copy of the NMP. We did obtain a copy of the NMP from the Commission and therefore, we are submitting our comments to the Commission with a copy to the District.

I. Hillendale Proposed Expanded CAFO

The District previously approved Hillendale's NMP on June 11, 2015. Following an appeal to the Environmental Hearing Board, the approval was rescinded due to failure to provide adequate notice and opportunity for public comment. Hillendale, through its consultant Team Ag, submitted to the Commission on or about August 25, 2015 a revised, proposed NMP for two sites, the Existing CAFO at 2820 Daron Road and a second site at Snyder Mill Road.

Site 1, 2820 Daron Road, proposes to add to the Existing CAFO a new free range layer house that will hold an additional 60,500 birds and have a 73' x 109' manure stacking facility located at one end that will hold 170,054 cu/ft.

Site 2, Snyder Mill Road, is a proposed new layer operation where four new layer barns will hold 2 million birds, each having a 103' x 156' roofed manure stacking facility located at the end that will hold 353,496 cu/ft each. The rescinded NMP had proposed holding 1.7 million birds, each having a 103' x 212' roofed manure stacking facility located at the end that will hold 480,392 cu/ft each. The 105' x 225' x 13.5' egg wash water pond is still proposed to hold 1,840,800 gallons.

Appendix 1 of the NMP contains affirmations by the Specialist and Operator dated March 19, 2015 and March 23, 2015 respectively. However, the revised proposed NMP contains revisions from the rescinded NMP. The revisions have not been affirmed by the specialist and operator.

The rescinded NMP claimed the farmstead operation consists of 25.2 total acres. The revised proposed NMP now claims total operation acres of 282.1.

Appendix 3 of the NMP requires certain information on Manure Groups. This appendix is incomplete as it fails to document total manure produced for animal group 1 and animal group 2. Moreover, the revised proposed NMP increased the animal weight for standard layer chicken, yet did not certify the accuracy of the revised calculations.

Appendix 6 of the revised proposed NMP changed the date of the required site evaluation for manure management from January 15, 2013, to January 14, 2015. Appendix 7 of the revised proposed NMP changed the date of the required site evaluation for stormwater control on croplands, haylands and pastures included in the plan from January 15, 2013 to January 14, 2015. The Commission should request copies of all documentation associated with those site evaluations to ensure compliance with 25 Pa. Code §§ 83.311 and 83.321.

II. Codorus Creek Watershed

The Hillendale/ Bailey Farm CAFO is located in the Codorus Creek Watershed. The Codorus Creek Watershed is a major watershed located almost entirely within York County. A very small percentage (0.1%) of the Watershed is located in northern Maryland. The Watershed includes the central and southwestern portions of the County, extending from West Manheim and Penn Townships in the southwest to East Manchester and Hellam Townships, as well as the Susquehanna River, in the east central area. The headwaters of the Codorus Creek's three (3) main branches are located in southern York County, near the Maryland-Pennsylvania border. The watershed contains approximately 187,966 acres or 294 square miles. The municipalities located, either in whole or in part, within the Codorus Creek Watershed include Penn, Heidelberg, North Codorus, Jackson, West Manchester, Spring Garden, Springettsbury, East Manchester, Hellam, Manchester, York, Springfield, Codorus, Manheim, Shrewsbury, North Hopewell and Hopewell Townships and the Boroughs of Spring Grove, New Salem, Jefferson, Seven Valleys, Glen Rock, Shrewsbury, New Freedom, Railroad, Loganville, Jacobus, Dallastown, Yoe, Red Lion, West York, North York, Mount Wolf and Manchester. The City of York is located entirely within this Watershed.

Runoff from Site 2, the Hillandale Snyder Mill Road site flows in two directions. Runoff from the south and southwestern part of the site flows directly to Codorus Creek and runoff from the northern part of the site drains to an unnamed tributary which also contributes to Codorus Creek. The Codorus Creek as well as the unnamed tributary contributing to Codorus Creek are both classified as Trout Stocked Fisheries.

Codorus Creek is a short distance to the south of Site 1, 2820 Daron Road. An unnamed tributary to Codorus Creek is a short distance to the north of Site 1.

Codorus Creek Watershed is within of the Chesapeake Bay Watershed. Nonpoint sources of pollutants, such as the Hillandale CAFO are subject to the Environmental Protection Agency ("EPA") imposed Total Maximum Daily Load ("TMDL") plan.

In 1985, EPA determined that the groundwater system of the Conestoga Limestone formation of the Piedmont region which underlies part of York County is the sole or principle source of drinking water for that part of York County and that such aquifer, if contaminated, would create a significant hazard to public health. *See* 50 Fed.Reg. 9126 (March 6, 1985).

The stream flow source zones for the designated Sole Source Aquifer include the drainage basins of the East Branch of West Branch Codorus Creek, from the headwaters to its confluence with West Branch Codorus Creek, and the South Branch Codorus Creek from its headwaters to the town of Glatfelters and including the drainage basins of Fishel Creek, Buffalo Valley Creek, Brush Valley Creek, Krebs Valley Creek, Glen Rock Valley Creek, Trout Run and Cherry Run.

The Hillandale/ Bailey Farms CAFO is located in this Sole Source Aquifer designated under the Safe Drinking Water Act. Hillandale owns a number of CAFOs in central Pennsylvania that have a history of environmental violations, including spills of egg washwater and arsenic contamination of well water. The Commission must ensure Hillandale's operation will not adversely impact the Sole Source Aquifer.

III. Additional Comments

The District approved the now rescinded NMP before taking action on the pending Erosion and Sedimentation Control Plan, a violation of 25 Pa. Code § 83.361(f). What is the status of the E&S Plan? Has it been revised to reflect the revisions in the proposed revised NMP?

The Commission must consider and account for whether the CAFO would encroach into or otherwise destroy waters of the Commonwealth in violation of 25 Pa. Code § 83.351(a)(2)(ii), the Clean Streams Law, and Article I, Section 27 of the Pennsylvania Constitution.

The Commission must consider and account for whether the impacts of the CAFO on the Codorus Creek Watershed would cause degradation of water quality in violation of 25 Pa. Code Chapter 93.

One of the purposes of the nutrient management regulations is to “[a]ssure the proper utilization and management of nutrients when manure is exported” offsite. 25 Pa. Code § 83.203(2). The Commission must consider whether the manure and egg wash water would be handled in compliance with the Nutrient Management Act and the Clean Streams Law onsite, offsite and during transport.

The Commission must consider and account for how the CAFO would impact the Sole Source Aquifer.

The Commission must consider and account for how the CAFO would impact the area’s scenic beauty and natural resources under Article I, Section 27 of the Pennsylvania Constitution.

The Commission must consider and account for Hillandale’s past record of noncompliance with environmental protection regulations in the operation of their other facilities.

If you have any questions, please contact me.

Sincerely,



William J. Cluck

CC: Friends of York County Family Farms
York County Conservation District
118 Pleasant Valley Road
York, PA 17402



Conserving Natural Resources for Our Future

September 21, 2015

The Honorable Russell Redding
Secretary, Department of Agriculture
2301 North Cameron Street
Harrisburg, PA 17110

The Honorable John Quigley
Secretary, Dept. of Environmental Protection
PO Box 2063
Harrisburg, PA 17105-2063

Dear Secretary Redding and Secretary Quigley,

As you know, conservation districts receive \$7.5 million annually from the current impact fee. Half of that funding is sent to districts from the Public Utility Commission (PUC) and the other half goes to the Conservation District Fund Allocation Program (CDFAP) for distribution through the State Conservation Commission. Districts have already received their dedicated impact fee funding from the PUC, but not the portion from the CDFAP. Though the impact fee money through the CDFAP is not contingent on the annual budgetary process, it is normally combined with the line item budget funding and the resulting total is sent to each district in one check. Because of the budget impasse, these checks have not been delivered to conservation districts.

Many conservation districts are creating and implementing contingency plans until a state budget is passed and signed by Governor Wolf. However, it would be helpful for districts to receive the impact fee independently from any budget-related funding they receive.

Would it be possible for the state comptroller to issue a check to each district for the impact fee funds that are already in the CDFAP? A second check for the line item funding could then be prepared after a state budget is finalized. Allowing distribution of the impact fee money now would help conservation districts to continue their operations more smoothly and with less disruption of services.

Thank you for your consideration in this matter.

Sincerely,

Glenn Seidel
President

SECRETARY'S OFFICE

SEP 22 2015

DEPARTMENT OF
ENVIRONMENTAL PROTECTION



DATE: November 2, 2015

Agenda Item B.5.a

TO: Members
State Conservation Commission

FROM: Karl G. Brown
Executive Secretary

THROUGH: Karl G. Brown
Executive Secretary

RE: Proposal for distribution of allocated funds.
FY2015-16 Conservation District Fund Allocation Program

Action Requested

Approve a strategy for the distribution of Unconventional Gas Well funds, currently available in the Conservation District Fund, to conservation districts under the Conservation District Fund Allocation Program for FY2015-16.

Background

At its July 8, 2015 public meeting, the State Conservation Commission (Commission) adopted a strategy for allocation of funds under the Conservation District Fund Allocation Program (CDFAP) Statement of Policy contingent on the enactment of FY2015-16 state budget. Those funds are provided under 'line item' appropriations for conservation districts under the Governor's Proposed FY2015-16 state budget and Act 13, Unconventional Gas Well (UGW) funds for transfer to the Conservation District Fund. The allocation strategy is illustrated in *Attachment 1 – Chart A – Staff Recommendation*.

Subsequently, on September 21, 2015, Glenn Seidel, PACD President wrote to Secretary Redding and Secretary Quigley asking if it would ... "be possible for the state comptroller to issue a check to each district for the impact fee funds that are already in the CDFAP [Conservation District Fund Allocation Program]?" (Attachment 2). Secretary Redding directed Commission staff to contact both the Governor's Budget Office and the Governor's Policy Office to determine the feasibility of releasing some or all of the UGW funds that are contained in the Conservation District Fund.

Staff recently received confirmation from the Governor's Office of Budget that UGW funds are currently available in the Conservation District Fund for distribution. Commission staff also received confirmation from the Governor's Policy Office to move forward in the distribution of those funds under the current CDFAP Statement of Policy, if the Commission chooses to do so.

Proposal Summary

Under the adopted allocation strategy (Attachment 1), approximately \$3.886 million was committed to support designated CDFAP program elements including the following:

- a) District Management Cost Share ~ \$1,477,400
- b) Technical Assistance Costs share
 - 1st Technician (E& S technician) ~ \$1,028,500
 - Agricultural Conservation Technician ~ \$869,000
- c) Statewide Special Projects \$515,000

Notwithstanding the current budget impasse, the Commission has access to and the ability to distribute \$3.75 million in UGW funds transferred to the CDF for FY2015-16. Program staff has developed the following proposed 'revised' strategy for distribution of available UGW funds under the adopted allocation strategy (Attachment 1):

- a) Provide reimbursements to conservation districts for eligible staff positions under CDFAP to preserve cash flow for "priority" positions including District Managers (Column B₁), 1st Technicians (column B₂) and Agricultural Conservation Technicians (Column B₃). Reimbursement would be on a quarterly basis.
Special Note - UGW funds in Columns C and D, allocated as available for designation to eligible CDFAP program elements (i.e. District Management cost share, Technician cost share or Administrative Assistance), would not be distributed at this time.
- b) Support 'statewide special projects' noted in section 'E' including the Ombudsman Program (\$95,000), Agricultural Technician Boot Camp (\$20,000) and Leadership Development initiatives (up to \$100,000).
- c) In the event of reduced appropriations under an enacted state budget, available funds would be distributed to conservation districts as quarterly reimbursements to support eligible "priority" staff positions under CDFAP and support 'statewide special projects' to the extent funds are available.
- d) In the event appropriations under an enacted state budget are maintained at the Governor's proposed FY2015-16 levels, any balance of funds not dedicated for distribution to conservation districts for "priority" positions under the CDFAP or for 'statewide special projects' will be distributed as designated under the allocation strategy (Attachment A) adopted by the Commission on July 8, 2015.

Recommendation

Staff recommends the following:

- 1) Approval of the proposed 'revised' distribution strategy for funds currently available in the Conservation District Fund;*
- 2) If upon enactment of a FY2015-16 state budget where appropriated funding levels are consistent with the Governor's 'Proposed' FY2015-16 General Fund budget, distribute funds according to the allocation strategy adopted by the Commission on July 8, 2015(Attachment A);*
- 3) If upon enactment of a FY2015-16 state budget where appropriated funding levels are not consistent with the Governor's 'Proposed' FY2015-16 General Fund budget, consider a 'revised' allocation strategy at a later meeting, if appropriate.*

Thank you for your consideration of the proposed CDFAP funding distribution as it will enable program staff to expedite payments to conservation districts and preserve cash flow for conservation districts.

Attachments

November 1, 2015

To: Members
State Conservation Commission

From: Karl G. Brown
Executive Secretary

RE: Conservation District Fund Allocation Program (CDFAP)
Statement of Policy and Related Issues

In August 2015, the Governor's Policy Office called a meeting with SCC, DEP and PDA staff to discuss the following three items: 1) the purpose and intent of the CDFAP; 2) how the CDFAP resources are currently being allocated to and used by conservation districts; and 3) the feasibility of directing a greater portion of these funds toward agricultural BMP implementation, especially within the Chesapeake Bay Watershed.

As a follow-up to this meeting, agency staff agreed to develop and evaluate a number of options for how a portion of the CDFAP resources could be utilized directly for agricultural BMP implementation by county conservation districts. After considering several short and mid-term options, the Governor's Policy Office and Agency staff agreed to propose the following recommendations for CDFAP funds.

Short-Term Recommendation: Request the Commission utilize approximately \$500,000 in uncommitted funds (FY2014-15 uncommitted rollover) as a 1:1 match to incentivize up to 8 Chesapeake Bay Watershed conservation districts to commit additional CDFAP and/or UGWF revenues for the purpose of installing agricultural best management practices. Targeted conservation districts would be those that have the highest nutrient and sediment load contributions to the Chesapeake Bay Watershed. If these districts are capable of committing FY2015-16 CDFAP and or UGWF dollars for agricultural BMP implementation, the uncommitted FY2014-15 funds will be distributed to these districts as a 1:1 match to help them install additional agricultural best management practices within the Chesapeake Bay Watershed.

Mid-Term (FY2016-17 & 2017-18) Recommendation: Over the next six months, work with the Commission and county conservation districts to develop a consensus to direct a portion of the annual CDFAP allocations for targeted agricultural BMP implementation statewide. In FY2016-17, establish a goal for conservation districts to commit 5 percent of their CDFAP allocation toward Ag BMP implementations as a condition of receipt of FY2016-17 CDFAP funds. For 2017-18, establish a goal for conservation districts to commit 10 percent of their CDFAP allocation towards agricultural BMP implementations as a condition of receipt of FY2017-18 funds.

At the same time, allow conservation districts to demonstrate an offset match of other grant funds for agricultural and other natural resource BMP grant funds (acid mine drainage, stream restoration, etc.) that they have successfully competed for in the previous fiscal year. This offset option would allow them to receive their entire CDFAP allocation and use it consistent with current program requirements, while also prioritizing and emphasizing the need to install agricultural and other natural resource BMPs.

Long-Term Opportunities: For FY2016-17 and beyond, begin now to explore options and opportunities to better leverage the administrative and technical capacities created by CDFAP and UGWF revenues within conservation districts, and to seek ways to leverage this baseline capacity to help plan, design and install agricultural and other natural resource BMPs. This would include exploring opportunities for conservation districts to expand and enhance their ability to deliver conservation planning, as well as BMP design and installation capacities.

Recommended Actions:

1. Commission and agency staff support the adoption of the Short-Term Recommendation outlined above, and recommend this be implemented as soon as possible.
2. Commission and agency staff recommend that an advisory committee be put in place to begin discussions of the Mid-Term Recommendations and Long-Term Opportunities outlined above.



pennsylvania

DEPARTMENT OF ENVIRONMENTAL PROTECTION



Bureau of Conservation & Restoration

Chesapeake Bay Update

State Conservation Commission

November 10, 2015

EPA's Concern

- EPA reports that PA is not meeting our Chesapeake Bay WIP commitments.
- PA needs to show significant improvement to meet the water quality goals.

EPA Oversight Status of Bay Jurisdictions' Progress (June 2015)

	Agriculture:	Urban/Suburban:	Wastewater:	Trading/Offsets:
DE	Ongoing Oversight *	Ongoing Oversight	Enhanced Oversight	Ongoing Oversight
DC	Not Applicable	Ongoing Oversight	Ongoing Oversight	Ongoing Oversight
MD	Ongoing Oversight	Ongoing Oversight	Ongoing Oversight	Ongoing Oversight
NY	Ongoing Oversight	Ongoing Oversight	Enhanced Oversight	Ongoing Oversight
PA	Backstop Actions Level	Backstop Actions Level	Ongoing Oversight	Enhanced Oversight
VA	Ongoing Oversight	Enhanced Oversight	Ongoing Oversight	Ongoing Oversight
WV	Enhanced Oversight	Ongoing Oversight *	Ongoing Oversight	Ongoing Oversight

* Green fading to yellow indicates potential downgrade at end of 2014-2015 milestone period if specific actions are not taken



▶ How to show “...Significant Improvement ...” ?

Report BMPs

- Remote Sensing Pilot
- Capital RC&D Transect Survey
- PACD Farmer Self-Reporting Website

Need to adequately reflect PA farmers' efforts to clean up local waterways.

Self-Reporting Information

Manure Management Self-Reporting



<http://pacd.org/selfreport>

Logos for PACD (Pennsylvania Association of Conservation Districts, Inc.), Pennsylvania Farm Bureau, Pennsylvania Association for Sustainable Agriculture, Pennsylvania Farmers Union (United to Grow Family Agriculture), and PennAg (Leading Today's Agriculture).



Photo courtesy of USDA NRCS

Self-Reporting Information

FOCUS:

- Manure Management Plan information

“Bonus” BMPs:

- Animal Waste Management Systems
- Stream Bank Fencing
- Riparian Buffers
- Barnyard Runoff Controls

Self-Reporting Information

- DEP will get county level data to document PA farmer's efforts.
 - DEP will not get “farm-specific” information.
- PACD Will Manage Data
 - Conservation Districts will “verify” 10% of data
- It will help create a more accurate picture of PA's agricultural improvements.



pennsylvania

DEPARTMENT OF ENVIRONMENTAL PROTECTION



Bureau of Conservation & Restoration

Steven Wm. Taglang

Bureau of Conservation and Restoration

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**COMMONWEALTH OF PENNSYLVANIA
STATE CONSERVATION COMMISSION**

DATE: October 23, 2015

TO: State Conservation Commission Members

FROM: Frank X. Schneider, Director
Nutrient and Odor Management Programs

THROUGH: Karl G. Brown
Executive Secretary

RE: Nutrient and Odor Management Programs Report

The Nutrient and Odor Management Program Staff of the State Conservation Commission offer the following report of measurable results for the time period of September 2015 thru October 2015.

For the months of September/October of 2015, staff and delegated conservation districts have:

1. Reviewed and approved fifteen (15) Odor Management Plans.
2. Reviewed and Approved *_ Nutrient Management (NM) Plans.
** Note, this information is reported quarterly and the last quarter has not been processed yet.*
3. Conducted four (4) county conservation district program evaluations.
4. Managing six (6) enforcement actions, currently in various stages of the compliance process.
5. Finalized the Nutrient Management Administrative Manual Updates, which were approved by the SCC in September.
 - a. Held four (4) Administrative Trainings in a webinar/conference call format
6. Finalized the Nutrient Management Technical Manual Updates, which were approved by the SCC in September.
 - a. Planning for two (2) Nutrient Management Interagency Nutrient Management Conferences to be held in November
7. Worked in partnership with PSU on the new Version 5.0 of the NM planning spreadsheet 5.0, which should be released soon.

OMP Status Report

<i>Action</i>	<i>OMP Name</i>	<i>County</i>	<i>Municipality</i>	<i>Species</i>	<i>AEUs</i>	<i>OSI Score</i>	<i>Status</i>	<i>Action By</i>	<i>Amend</i>
<i>CAO/CAFO</i>									
8/25/2015	Doutrich, Brian	Lebanon	S Lebanon Twp	Pullets	278.18	28.4	Approved	Exec. Sec.	
8/27/2015	Walmoore Holsteins, Inc - Unit 4	Chester	Londonderry Twp	Cattle	0	35.8	Approved	Exec. Sec.	A
9/4/2015	Zook, Stephan	Indiana	Pine Twp	Veal	0	61.6	Rescinded PI	Exec. Sec.	
9/4/2015	Hammer Creek Holsteins	Lebanon	Heidelberg Twp	Cattle	39.0	116	Rescinded PI	Exec. Sec.	
9/9/2015	Cassel, Mike	Lancaster	Penn Twp	Broilers	162.33	16.5	Approved	Exec. Sec.	A
9/17/2015	Mulberry Lane Farms	Dauphin	Derry Twp	Cattle	0	18.9	Approved	Exec. Sec.	
9/17/2015	Sensenig, Jeremy	Perry	Liverpool Twp	Pullets	176.47	28.0	Approved	Exec. Sec.	
9/17/2015	Leid, Webster	Franklin	Lurgan Twp	Cattle	27.0	71.0	Approved	Exec. Sec.	A
9/17/2015	CVFF, LLC - River Valley Farm	Tioga	Deerfield Twp	Swine	2978.55	31.7	Approved	Exec. Sec.	
10/5/2015	Bollinger, C Dale	Lancaster	E Drumore Twp	Broilers	112.78	33.5	Approved	Exec. Sec.	
10/5/2015	Myer, Nathan	Lancaster	Elizabeth Twp	Broilers	137.83	92.1	Approved	Exec. Sec.	
10/5/2015	Miller, Joseph A	Jefferson	McCalmont Twp	Veal	117.37	84.2	Approved	Exec. Sec.	A
10/5/2015	Kreider, Noah W & Sons, LLP – Donegal F	Lancaster	E Donegal Twp	Layers	4284.0	33.5	Approved	Exec. Sec.	
10/5/2015	Mancino, Michael & Allison	Pike	Lackawaxen Twp	Horse	66.0	151.0	Rescinded PI	Exec. Sec.	
10/5/2015	Zimmerman, Jay	Lancaster	Clay Twp	Broilers	147.58	27.8	Approved	Exec. Sec.	
10/8/2015	Martin, Shawn	Lebanon	E Hanover Twp	Broilers	180.51	46.2	Approved	Exec. Sec.	
10/19/2015	Five Springs Farm Ltd & Coops LLC	Lancaster	Pequea Twp	Broilers	0	33.6	Rescinded PI	Exec. Sec.	
10/19/2015	Evergreen Farms, Inc. – Home Farm	Huntingdon	Franklin Twp	Cattle	520.0	27.1	Approved	Exec. Sec.	A
10/19/2015	Five Springs Farm Ltd & Coops LLC	Lancaster	Pequea Twp	Broilers	74.91	41.38	Rescinded PI	Exec. Sec.	
10/23/2015	Kreider, Noah W & Sons, LLP - Risser Far	Lancaster	Penn Twp	Pullets	284.0	49.9	Approved	Exec. Sec.	A



COMMONWEALTH OF PENNSYLVANIA
STATE CONSERVATION COMMISSION

DATE: October 26, 2015 **ITEM: C.1.b**
TO: Members
State Conservation Commissi
FROM: Karl J. Dymond *KJ Dymond*
State Conservation Commissi
SUBJECT: November 2015 Status Report on Facility Odor Management Plan Reviews

Detailed Report of Recent Odor Management Plan Actions

In accordance with Commission policy, attached is the Odor Management Plans actions report for your review. No formal action is needed on this report unless the Commission would choose to revise any of the plan actions shown on this list at this time. This recent plan actions report details the Odor Management Plans (OMPs) that have been acted on by the Commission and the Commission’s Executive Secretary since the last program status report provided to the Commission at the July 2015 Commission meeting.

Program Statistics

Below are the overall program statistics relating to the Commission’s Odor Management Program, representing the activities of the program from its inception in March of 2009, to October 26, 2015.

The table below summarizes approved plans grouped by the Nutrient Management Program Coordinator Areas and by calendar year.

	<i>W</i>	<i>Central</i>	<i>NE</i>	<i>SE</i>	<i>Annual Totals</i>
<i>**2009</i>	<i>4</i>	<i>3</i>	<i>6</i>	<i>28</i>	<i>41</i>
<i>**2010</i>	<i>2</i>	<i>4</i>	<i>8</i>	<i>26</i>	<i>40</i>
<i>**2011</i>	<i>6</i>	<i>7</i>	<i>12</i>	<i>17</i>	<i>42</i>
<i>2012</i>	<i>10</i>	<i>2</i>	<i>17</i>	<i>18</i>	<i>47</i>
<i>**2013</i>	<i>5</i>	<i>6</i>	<i>14</i>	<i>44</i>	<i>69</i>
<i>**2014</i>	<i>7</i>	<i>8</i>	<i>18</i>	<i>44</i>	<i>77</i>
<i>2015</i>	<u><i>2</i></u>	<u><i>15</i></u>	<u><i>9</i></u>	<u><i>54</i></u>	<i>80</i>
<i>Totals</i>	<i>36</i>	<i>45</i>	<i>84</i>	<i>231</i>	<i>Grand Total: 396</i>

Note that 2015 YTD is through October 26, 2015

***Note the change in approved plan numbers is due to rescinded OMPs*

As of October 26, 2015, four hundred forty four OMPs have been **submitted**, three hundred ninety six have been **approved**, eight plans have been **denied**, twelve plans have been **withdrawn** without action taken, nineteen plans were **rescinded** and nine plans are going through the **plan review process**. Note: of the 444 total plans, 69 of those plans are amendments of previously approved plans.



COMMONWEALTH OF PENNSYLVANIA
STATE CONSERVATION COMMISSION

DATE: October 30, 2015
TO: State Conservation Commission
FROM: Johan E. Berger
Financial, Certification and Conservation District Programs
SUBJ: Program Accomplishments: Nutrient and Odor Management Specialist;
Commercial Manure Hauler & Broker Certification Programs

Certification Program Summary

State Conservation Commission staff facilitate training and certification programs for persons interested in ‘commercial’ or ‘public’ certification in order to develop or review odor management or nutrient management plans under the Act 38 *Facility Odor Management or Nutrient Management* programs. Training is also facilitated for commercial manure haulers and brokers seeking certification under the Act 49 *Commercial Manure Hauler and Broker Certification* program.

Program Accomplishments (January 1, 2015 to date)

1. Conducted 25 days of training for 150 persons applying for certification under the Nutrient Management Specialist and Commercial Manure Hauler and Broker certification programs. *Note: Training for Odor Management Specialists is offered on an as needed basis.*
2. Completed 29 reviews of nutrient management plan reviews for certification requirements. *Note: This is an internal review conducted on NMPs under review by public review specialists seeking final certification.*
3. Issued the following licenses to individuals successfully completing certification requirements:
 - a. Nutrient Management and Odor Management Specialists:42
 - b. Commercial Manure Haulers and Brokers: 155
4. Approved/sponsored continuing education programs and issued credits to eligible participants:
 - a. Nutrient Management Specialist certification: 44 sessions
 - b. Commercial Manure Hauler and Broker certification: 17 sessions

Note: Many of the continuing education programs were a series of winter meetings for Commercial Manure Haulers and Brokers and several series of workshops held during the 2015 Manure Expo held July 15 – 16, 2015.

5. Conducted six (6) compliance inspections under the Commercial Manure Hauler and Broker Certification program. Compliance activities included the review of records maintained by hauler and brokers and nutrient balance sheets developed by brokers.



COMMONWEALTH OF PENNSYLVANIA
STATE CONSERVATION COMMISSION

DATE: October 30, 2015
TO: State Conservation Commission
FROM: Johan E. Berger
Financial, Certification and Conservation District Programs
SUBJ: Program Accomplishments: Resource Protection and Enhancement Program (REAP)

REAP Program Summary

The Resource Enhancement and Protection (REAP) Program allows farmers, businesses, and landowners to earn state tax credits in exchange for the implementation of conservation Best Management Practices (BMPs) on Pennsylvania farms. REAP is a first-come, first-served program – no rankings. The program is administered by the State Conservation Commission (Commission) and the tax credits are awarded by the Pennsylvania Department of Revenue. Eligible applicants receive between 50% and 75% of project costs in the form of State tax credits for up to \$150,000 per agricultural operation. The REAP program has issued over \$50.8 million in tax credits since 2007.

Program Accomplishments (January 1, 2015 to date)

1. Tax Credits issued to applicants for completed, eligible projects *\$3.8 million*
2. Number of BMPs completed associated with issued tax credits..... *241 projects*
3. Number of tax credit ‘sales’ completed*147 sale transactions*
(Totaling \$2.5 million)
4. Number of site inspections conducted on completed projects *27*
(Includes roofed BMPs, equipment [no-till & low disturbance residual management] and waste storage structures.)
5. Over 697 ‘self-compliance letters for equipment BMPs were sent to applicants, approximately 80% of those letters have been received and processed.
6. Number of 2015-16 applications received to date *153*
 - a. Amount of tax credits requests for eligible project: *\$4.4 million*
 - b. Amount of tax credits allocated for eligible projects *\$4.2 million*
 - c. Number of BMPs associated with tax credits for eligible projects *287*



COMMONWEALTH OF PENNSYLVANIA
STATE CONSERVATION COMMISSION

Agenda Item:

Date: October 26, 2015

To: State Conservation Commission

From: Roy Richardson, Dirt and Gravel Roads Program Coordinator

Through: Karl G. Brown, Executive Secretary

RE: Dirt, Gravel, and Low Volume Roads Program (DGLVRP) Update

DGRoads GIS System Update - The new online GIS project tracking system “DGRoads” has been released. The system will be used by Conservation Districts to track and report deliverables, location, and financial data on both “Dirt and Gravel”, and “Paved Low Volume” projects. Commission and Center staff has developed a training program for the conservation districts using the program. 5 training sessions have been scheduled through mid - December.

The timing of these trainings will coordinate well with the “Annual Summary Report” process that typically sees Conservation Districts updating their GIS databases by January 15 each year. The 2015 Annual Summary Report will be completed in the new online DGRoads system and include both “Dirt and Gravel”, and for the first time, “Paved Low Volume” projects.

QAQC Visits - Staff has completed 22 Quality Assurance/Quality Control (QAQC) visits this year. Staff has focused on the counties that receive the larger allocations. While 22 visits represent approximately 1/3 of the participating counties, it represents over 50% of the Dirt and Gravel Allocation. Staff is on target for meeting the goal of visiting every county on a three year cycle.

Annual Workshop – The annual workshop was held in Cranberry Township, Butler County on September 29, 30. The workshop consisted of one day of classroom trainings and one day of field tours of actual projects completed in Butler, Warren, and Lawrence Counties. Approximately 200 attended including Conservation Districts, SCC and Center staff, Bureau of Forestry staff, Township Supervisors, DEP, and PaDOT Staff.

Payments to Conservation Districts – Conservation Districts receive ½ of their DGLVR allocation in advance. As they incur actual expenses, Districts then submit a replenishment request to receive the

remaining funds. The following table is a summary of the DGLVR funds sent to Conservation Districts this year:

Activity	DGR	LVR
Advance Payments	\$9,316,500	\$3,724,000
Reimbursements	\$4,595,500	\$950,000

*There is approximately \$7,900,000 of 2014-2015 funds remaining in Harrisburg that can be dispersed to Conservation Districts as they submit reimbursement requests (DGR and LVR combined).

Other DGLVR Activities

Activity	Location	Attendance	Date	YTD
ESM	8 locations statewide			570
Other Trainings	<ul style="list-style-type: none"> • Administrative trainings (7) • Webinars (7) • “Help Desk” (2) • Conference calls (6) 			
QAQC visits	22 counties			19
Tech assists	Conservation Districts (50+)			50+
Quarry Visits	Quarries statewide (43+)			43+
Workgroups	<ul style="list-style-type: none"> • Policy and Planning • Product and Process • Education and Outreach 			3
Upcoming events	<ul style="list-style-type: none"> • Policy and Planning workgroup • Education and Outreach Workgroup • SCC/Center Joint Staff Meeting 		November 17, 2015 November 18, 2015 November 13, 2015	
Other Activities	<ul style="list-style-type: none"> • 2 ESM trainings scheduled for this fall. • GIS training scheduled for various locations this fall. 		Oct 13 & 14, 2015 Nov 4 & 5, 2015	



BUILDING BRIDGES

Farmers * Municipalities * Citizens
Conservation Districts * Agribusiness

To: Members
State Conservation Commission

November 10, 2015

From: Shelly Dehoff
Agriculture/Public Liaison

Through: Karl G. Brown, Executive Secretary
State Conservation Commission

Re: Agricultural Ombudsman Program Update

Activities: Since mid-September 2015, I have taken part or assisted in a number of events, including the following:

- Revising “Livestock and Poultry Mortality Disposal in PA” brochure for statewide distribution
- Creating brochure on stream fencing and buffers
- Trying to stay up-to-date on HPAI response planning as a Conservation District representative and as the Chair of the SouthCentral Task Force Agriculture Subcommittee
- Providing input on Agricultural Advocacy short film being created by NaturalLight Films
- Coordinated inaugural Lancaster County Ag Week
- Attended Press Event regarding workforce opportunities related to agriculture
- Attended Lancaster Co. Ag Summit
- Attended International Symposium on mortality disposal
- Met with Ag integrators and PennAg staff to begin outreach campaign empowering farmers to engage in discussions with non-farm neighbors
- Beginning 2 Ag Preserve verification visits in Lancaster Co.
- Chaired SCTF Ag Subcommittee meetings
- Serve as Secretary for Coalition for Smart Growth Board and Exec Comm
- Attended and assisted at Lancaster Co. Agriculture Council meeting

Local Government Interaction: I have been asked to provide educational input regarding agriculture:
None currently

Moderation or Liaison Activities: I have been asked to provide moderation or liaison assistance with a particular situation:
Lancaster Co—moderating on-going issue between farmer and neighbor with stormwater concerns
York Co—received complaint re: raising of backyard poultry

Research and Education Activities:

Adams Co—attorney requested educational information about farmer/neighbor situation regarding crop harvesting

Adams Co—provided information re: ACRE for District employee to pass along to local municipality

Berks Co—made aware of neighbor upset with product which was spread on local farm; researched more about product being spread and provided information to caller

Fly Complaint Response Coordination: I have taken complaints or am coordinating fly-related issues in:
Schuylkill Co—still dealing with on-going complaint



BUILDING BRIDGES

Farmers* Municipalities* Citizens
Conservation Districts* Agribusiness

To: Members October 23, 2015
State Conservation Commission
From: Beth Futrick
Agriculture/Public Liaison
Through: Karl G. Brown, Executive Secretary
State Conservation Commission
Re: Ombudsman Program Update – Southern Alleghenies Region

Activities: August 15, 2015 – October 15, 2015

- Organized an Equine-Manure Management workshop in Monroe County (September 17)
- Held a Pasture-walk in Huntingdon County – Reviewed soil health and good pasture cover (October 8)
- Assisting with 2015 Inter-Agency Nutrient Management Conference (Clarion Co location – November 13)
- Managing a PA Dept. of Ag-Specialty Crop Block Grant
 - Held a Farmer-to-Farmer mentoring workshop in Huntingdon County. To explore different market venues for specialty crops
 - Partnered with PA FarmLink and Southern Alleghenies Planning and Development Commission
 - Assisting Penn State Extension to organize Study Circle Network for Establishing Farmers (Farming for 2-10 years) in the Southern Alleghenies region.
 - Partnering with Penn State Extension as a local contact for the newly developed Southern Allegheny Hub as part of Extensions “Start Farming” program
- Working with Blair County MS4 Workgroup and administering NFWF Grant - This grant will help Blair County’s municipalities develop and implement green infrastructure to meet goals in their watershed plan.
 - Organizing the construction of green infrastructure (GI) demonstration sites. We are working with the municipalities in Blair County to install GI sites. The NFWF grant funds materials, engineering services, and ed./outreach signage and the municipalities public works staff provide man-power and equipment
 - Preparing to re-plant and do general maintenance at the Hollidaysburg Borough site (Hollidaysburg YMCA)
 - Organized pre-construction meeting for Tyrone Borough site (Tyrone VFW parking lot)
 - Organized pre-construction meeting for the City of Altoona site (Bishop Guilfoyle High School)

Meetings/Trainings/Events

- Lycoming County – Addressing a fly complaint. I meet with poultry integrator wit Organic Valley (August 24)
- PA Farm Link board meeting (August 26)
- GI construction meeting with City of Altoona (September 8)
- GI construction meeting with Tyrone Borough (September 24)
- Planning meeting for Pasture walk (September 25)
- GI – educational signage development meeting with Hollidaysburg Borough (September 30)
- Penn State Ext meeting with local farmer-advisors to develop study circles (October 5)
- Pasture Walk at Thistle Creek Farm – Huntingdon County (October 8)
- Farmer-to-Farmer workshop at Eden View Farm – Huntingdon County *as part of SCBG* (October 14)

Conflict Issues/Municipal Assistance –

- Lycoming County- fly complaint

Reports & Grant Applications

- Blair County Conservation District Board Report
- NFWF – Chesapeake Bay Innovative Nutrient and Sediment Reduction Grant – Financial Report (due Oct 31)
- PDA – Specialty Crop Block Grant – Annual Report (Due October 28)

STATE CONSERVATION COMMISSION CONFERENCE CALL

Pa Department of Agriculture, Room 405

Tuesday, October 13, 2015 @ 8:30am

DRAFT MINUTES

Members Present: Secretary Russell Redding, PDA; Kelly Heffner for Secretary John Quigley, DEP; Michael Flinchbaugh; Ross Orner; Ron Rohall; Ron Kopp; Drew Gilchrist, for Secretary Cindy Dunn, DCNR; Glenn Seidel, PACD

B. Information and Discussion Items

1. 2015 Dirt, Gravel and Low Volume Road Conference – Roy Richardson, SCC.

Roy reported that over 150 representatives From conservation districts, state agencies and municipalities participated in a variety of informational sessions during the 2-day event in Allegheny County. Participants had an opportunity to visit a number of dirt and gravel and low volume project sites across Allegheny County.

2. DGLR Program 2015 Quality Assurance Visits – Roy Richardson, SCC

Roy reported that program staff has completed 19 visits and have several visits scheduled for the remainder of calendar year 2015. All districts have either met or exceeded program administration and implementation expectations. Only one conservation district had some deficiencies that were addressed through a remedial action plan which was recently completed.

3. PACD Letter on Conservation District Fund Allocation Program – Karl Brown, SCC

Karl Brown reported the Secretary Quigley, DEP and Secretary Redding, PDA received a letter from PACD requesting reimbursement of Act 13 funds, already transferred to the Conservation District Fund, to conservation districts. The Governor's Policy Office and the Office of Budget have been contacted regarding the feasibility of satisfying the request. Staff is awaiting a response.

4. FY2015-16 General Fund Budget update – Karl G. Brown, SCC

Karl reported that conservation districts have been advised on developing contingency plans regarding cash flow during the budget impasse. Secretary Redding noted that the Governor's Office has made some concessions on revenue requests during the budget discussions.

5. Chesapeake Bay Program Update – Karl G. Brown, SCC

Karl reported that Commission staff is working closely with DEP program staff on 'rebooting' CBP accomplishments, in part, to meet WIP output measures. Secretary Redding commented that an EPA assessment of Pennsylvania's WIP accomplishments noted several deficiencies in nutrient trading and satisfaction of TMDLs and noted that the Commonwealth needs to improve planning, implementation and compliance activities. Dep. Secretary Kelly Heffner added that EPA is withholding up to 50 % of its CBIG and CBRAP funding to Pennsylvania due to these deficiencies. DEP is

responding with strong clarifications on how Pennsylvania has been meeting the WIP output measures.

Related to this discussion, Karl reported that program staff is investigating resources that would be available to increase BMP implementation activities in the watershed. The AgriLink low interest loan program and the use of CDFAP dollars as a match for implementation funding are tools that could be considered.

C. Cooperating Agency & Organization Reports.

Drew Gilchrist, DCNR

Drew reported that 2.2 million acres of forestry has been planted throughout the state.

Deputy Secretary Kelly Heffner – DEP

Nothing to report.

Secretary Russel Redding– PDA

Secretary Redding reported that PDA is continuing HPAI monitoring. Deputy Secretary Greg Hostetter reported that one suspected flock tested negative. Insurance is being offered to farms to help prepare incase HPAI would affect their business. USDA is anticipating 500 flocks to be affected during the fall and winter months.

D. Adjournment. The conference call concluded at 9:42 a.m.

The next public meeting will be held on November 10, 2015 at 1:00 p.m. at the Pennsylvania Department of Agriculture, room 309.