

State Conservation Commission Meeting

March 9, 2021

Virtual Meeting

Agenda – SCC COPY

Business Session – 1:00PM – 3:00PM

A. Opportunity for Public Comment

B. Business and Information Items

1. Approval of Minutes
 - a. January 19, 2021 Public Meeting (A)
 - b. February 9, 2021 Conference Call (A)
2. Nutrient and Odor Management Program
 - a. OMP - Amos Zimmerman, West Brunswick Township, Schuylkill County; Karl Dymond, SCC (A)
 - b. Pleasant Ridge Farm, LLC – Briana Yetter; Monroe County; Brady Seeley, SCC (A)
 - c. Gravel Bar Farm - Duane Bassett; Northumberland County; Brady Seeley, SCC (A)
3. Conservation Excellence Grant Program – Expansion and allocation of funds - Johan Berger, SCC (A)
4. Recommendation for approval - Reserve Account under the Conservation District Funding Allocation Program – Clearfield County Conservation District and Susquehanna County Conservation District, Johan E. Berger, SCC (A)
5. Conservation District Advisory Committee Appointments, Karl G. Brown, SCC (A)
6. 2021 Conservation District Director Appointment Update; Karl Brown, SCC (NA)
7. REAP Introduction to FY2021-22 guideline and application revisions, Joel Semke, SCC (NA)
8. DGLVR Annual Summary report/update, Roy Richardson, SCC; Steve Bloser, CDGRS
9. Chesapeake Bay Program WIP Update – Jill Whitcomb, DEP (NA)

C. **Written Reports**

1. Program Reports
 - a. Nutrient and Odor Management Program Measurables Report
 - b. January 2021 Status Report on Facility Odor Management Plan Reviews

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

D. Cooperating Agency Reports Adjournment

Next Public Meetings/Conference Calls:

April 13, 2021 - Conference Call

May 11, 2021 – Virtual Meeting

**STATE CONSERVATION COMMISSION
MEETING
PA Department of Agriculture, Harrisburg, PA
Zoom Webinar System**

Tuesday, January 19, 2021 - 1:00 p.m.

Draft Minutes

Members Present: Secretary Russell Redding, PDA; Secretary Patrick McDonnell, DEP; Mike Flinchbaugh; Don Koontz; MaryAnn Warren; Secretary Cindy Adams Dunn, DCNR; Denise Coleman, NRCS; Adam Walters, DCED; Chris Houser, Penn State; Brenda Shambaugh, PACD.

A. Public Input - None

B. Business and Information Items

Karl G. Brown, Executive Secretary, noted that an Executive Session was held to address Nutrient Management Program compliance and other program legal issues.

1. Approval of Minutes – November 10, 2020 - Public Meeting and December 8, 2020 – Conference Call.

Mike Flinchbaugh moved to approve the November 10, 2020 public meeting minutes and the December 8, 2020 conference call minutes. Motion seconded by Secretary Redding. Motion carried.

2. Election of Vice-Chairperson 2021. Karl Brown, SCC, reported that Conservation District Law requires the Commission to elect a vice chairperson to serve in that capacity for the ensuing year. Michael Flinchbaugh has served in this capacity for the last several years and has expressed a willingness to continue to serve in this capacity if requested by the Commission.

Don Koontz moved to approve the election of Michael Flinchbaugh as the State Conservation Commission Vice Chairperson for 2021. Motion seconded by Secretary Redding. Motion carried.

3. Nutrient Management and Odor Management Program (NMP – Nutrient Management Plan and OMP – Odor Management Plan)

- a. NMP – Mountain Creek Riding Stable, Inc.-Ron and Cheryl Jones; Cresco, Monroe County. Brady Seeley, SCC, noted that Monroe County Conservation District is not an Act 38 delegated district and therefore the Commission must take an action on this plan. Brady reported that the Mountain Creek Riding Stables is a commercial horse trail riding operation located on lands owned by Paradise Stream Prop Co, LLC (Paradise Valley Resort) in Cresco, PA and operated by Ron & Cheryl Jones. Approximately, 32 riding horses are retained on the operation throughout the summer (mid-May through end of October), 22 horses in the winter, and 2 draft horses are on the operation all year. The total land leased from Paradise Valley Resort is about 40 acres (ac) with 4.2 ac pasture, 3.3 ac for the farmstead and the rest is the forested area where trail rides occur. The only crop produced on this animal operation is hay in the 4.2 acres of pastures. Manure is handled as a solid form on this operation and is removed from the stalls daily.

All collected manure and bedding are exported for non-agriculture use (landscaping and soil amendment purposes). Approximately 335 tons of manure are generated from Mountain Creek Riding Stable per year. Approximately 20 tons of manure are applied to the pastures and 316 tons are exported to the known importers.

The combined animal equivalent units at Mountain Creek Riding Stables, LLC are 32.8. The crop production acres associated with this operation are approximately 4.2 acres. The majority of the feed and bedding are brought on to the operation from outside operators. The animal equivalent units per acre for Mountain Creek Riding Stable operation are 7.8, classifying this operation as a concentrated animal operation under Act 38 of 2005.

MaryAnn Warren made a motion to approve the Nutrient Management Plan of the Mountain Creek Riding Stable. Motion seconded by Mike Flinchbaugh. Motion carried.

b. Nutrient Management Plan – Aaron Smucker; Sunbury, Northumberland County. Brady Seeley, SCC, noted that Monroe County Conservation District is not an Act 38 delegated district and therefore the Commission must take an action on this plan. Brady reported that Aaron Smucker owns and operates two broiler barns, a horse/garage barn and dog kennel near the borough of Sunbury, PA. The current broiler barns measuring 54ft x 500ft that house a total of 64,000 broiler birds (each holding 32,000 birds). The farm also plans to house 2 standard horses, 2 mini horses, 4-goat does and kids, 1 goat ram, and 12-layer chickens.

A complete cleanout is performed between each flock of poultry. The plan indicates that approximately 455 tons of poultry manure will be generated annually, and 4.2 tons of poultry manure will be applied to the poultry pastures. Approximately 36.4 tons of other animal manure is planned to be generated annually and 27 tons will be applied to pastures by these animals. The combined animal equivalent units at Smucker's animal operation are 157.98. The animal equivalent units per acre for the Aaron Smucker animal operation are 29.81, classifying this operation as a concentrated animal operation under Act 38 of 2005.

The proposed NMP for Smucker's animal operation indicates needed BMPs to be implemented on the operation, namely – Animal Mortality Facility, Roofed Manure Storage (broiler manure), another Manure Storage (for Horse manure), Fencing and Forage & Biomass Planting (pastures). All practices are planned to be completed by Fall 2022. These practices are needed to assist the operator with overall management of this proposed broiler and other animal operation.

Don Koontz made a motion to approve the Aaron Smucker Nutrient Management Plan. Motion seconded by MaryAnn Warren. Motion carried.

c. 'Revised' Nutrient Management Program Fiscal Year 2020-21 Budget Proposal. Frank Schneider, SCC, reported that the approved partial (7/12th) FY 2020-21 General Fund Budget provides an appropriation to the Nutrient Management Fund of \$3,617,000. The proposed budget is based on the 'appropriation' to the fund and 'spending authorization' of \$3,343,000 under the approved 7/12 partial state budget. Program staff's proposed partial year (7/12th) NMF budgets provides funding for the following program elements:

- i. Prioritizes funding to conservation districts recognizing their key role in carrying out the mandates of the Nutrient and Odor Management Act, known as Act 38
- ii. Includes \$2,500,000 funding to farmers for plan development, implementation of financial assistance programs and Conservation Excellence Grants. \$2,000,000 is set for CEG while \$500,000 is set for Agri-Link.
- iii. Adds \$140,000 to the Commission's operational budget for the year. Operational budget is based on anticipated expenditures for FY 2020-21 projected costs from the PDA budget office.

Frank Schneider reported that Michael Walker retired on January 15, 2021. Brady Seeley will be taking care of Michael's workload until another employee is hired.

Mike Flinchbaugh made a motion to approve the proposed supplemental (7/12ths) Nutrient Management Program budget. Motion seconded by MaryAnn Warren. Motion carried.

4. 'Revised' Conservation District Fund and Unconventional Gas Well Fund FY 2020-21 CDFAP Allocations. Karen Books, DEP, reported that in July 2020, the Commission allocated available state funding (\$5,354,625 (5/12^{ths})) to conservation districts under the Conservation District Fund Allocation Program (CDFAP). These funds are annually allocated to districts through both a PDA line item and a DEP line item. CDFAP funds support conservation district managers and technician positions, administrative assistance and other special projects of the districts. The first phase of funding was prioritized to cover these positions and some administrative assistance grants to conservation districts. As a part of the second phase of this year's state budget (7/12^{ths}), a supplemental allocation (\$1,968,955) of state funds was made available to allocate to conservation districts under the CDFAP. Karen Books presented a recommended supplemental CDFAP allocation for the Commission's consideration. These supplemental funds would be available to districts to support any other eligible positions and administrative assistance expenditures.

MaryAnn Warren made a motion to approve the recommended supplemental CDFAP allocation to county conservation districts. Motion seconded by Don Koontz. Motion carried.

5. Annual (2019) Conservation District Audit Report. Karen Books, DEP, reported that beginning in 1999, the Commission required conservation district financial records to be audited under the supervision of a certified public accountant. Audits must be independent of the County audit and completed in accordance with generally accepted auditing standards and the standards applicable to "Financial Statement" audits contained in the latest revision of Government Auditing Standards issued by the Comptroller General of the United States. Over this time frame, districts have consistently made positive efforts in addressing the recommendations and findings reported in their audits. Karen Books provided the Commission an update on the 2019 audits of county conservation districts and a summary of reportable findings from these audits.

Don Koontz made a motion to accept the 2019 Conservation District Audit Report. Motion seconded by Mike Flinchbaugh. Motion carried.

6. Conservation District Advisory Committee

a. Drone Policy Proposal. Karl Brown, SCC, reported that in September 2020, the Commission directed staff to circulate the draft policies on the “Conservation District Drone Utilization” and “Appointing Former [Conservation District] Employees as Conservation District Directors” to conservation districts and other interested parties for a 45-day comment period. Twelve (12) conservation districts and or conservation district employees have submitted comments on these draft policies, including:

Bradford, Cambria, Cumberland, Erie, Indiana, Jefferson, Lancaster, McKean, Perry, Pike, York, Armstrong (manager only).

On December 10, 2020, Commission staff reviewed and discussed the comments received with the Conservation District Advisory Committee (CDAC). Based on the comments received, and the input of the CDAC, Commission staff has made final edits to the draft Conservation District Drone Policy. Five (5) districts offered comments supporting the policy in general. One district suggested that all districts should be required to develop Standard Operating Procedures (SOPs) for drone utilization rather than simply a “written policy.” Commission staff and CDAC members agreed with this suggestion and have incorporated this recommendation into the final draft.

One district recommended any district utilizing a drone be required to obtain prior written consent prior to flying a drone over private ground. Commission staff and CDAC members discussed this suggestion and decided not to include this requirement in the proposed policy but recognized that any conservation district may include this as a part of their county based written policy and or standard operating procedures.

MaryAnn Warren made a motion to approve the proposed Conservation District Drone Utilization Policy. Motion seconded by Don Koontz. Motion carried.

b. Former Employee Director Appointment Update. Karl Brown, SCC, reported that twelve districts offered comments on the draft policy regarding appointing former employees as conservation district directors. These comments ranged from general support and or general opposition, to specific recommendations for modifications to improve the draft policies. Lancaster County Conservation District offered a rewrite of the draft policy. Commission staff discussed these comments with the CDAC in December 2020. Based on CDAC input, staff will continue to research and redraft this proposed policy and will review any additional changes with the CDAC at their next meeting. Staff does not recommend action on this proposed policy at this time.

Action: No action required.

c. Committee Appointments. Karl Brown, SCC, reported that in January 2020, the Commission created the CDAC and appointed members to serve on this committee. Terms are three years in length, and initial appointments were staggered with 1/3 of the members appointed every year. The terms of three individuals who are currently serving have expired, including Erica Tomlinson (CD Manager), Dean Druckenmiller (CD Manager) and John Kolojechick (CD director). Erica and Dean have expressed an

interest in continuing to serve on CDAC, and John has indicated he would like to step down. Staff recommends that Erica Tomlinson and Dean Druckenmiller be reappointed to a 3-year term on the CDAC. Staff will solicit nominations to fill John Kolojechick's position on the board, as well as for currently vacant director members from the SE and SW regions. These director appointments to CDAC will be brought to the Commission at its March 2021 meeting.

Mike Flinchbaugh made a motion to reappoint Dean Druckenmiller and Erica Tomlinson to a 3-year term on the Conservation District Advisory Committee. Motion seconded by Don Koontz. Motion carried.

7. 2021 Conservation District Director Appointment Update. Karl Brown, SCC, reported that as of January 7, 2021, Chief Clerks from 48 counties (73% of all counties) have submitted their county's list of Conservation District Director appointments for 2021 to the State Conservation Commission. Commission staff will continue to work with county chief clerks to ensure that all vacant conservation district director positions are filled in a timely manner. Karl Brown will provide additional information on this agenda item.

Action: No action required.

8. Leadership Development Program Update. Matthew Miller, Leadership Development Program Coordinator reported that over the last year, the Conservation Partnership's Leadership Development Program has worked hard to adjust and adapt to the challenges and restrictions due to COVID. Matt reported that he has worked diligently with sub-committees to transition to "remote" learning technologies for program trainings. Matt provided a detailed update on 2020 LD activities and plans for 2021 activities.

Action: No action required.

9. Chesapeake Bay Program WIP Update. Jill Whitcomb, DEP, reported that activities continue with the development of Chesapeake Bay Program County Action Plans, as well as other aspects of the Chesapeake Bay Program. Jill Whitcomb, Director of the Pennsylvania Chesapeake Bay Program Office provided an update to Commission members on Bay related activities and accomplishments. Pennsylvania's Phase 3 WIP Implementation Strategy was discussed in detail: Implementation by State and local Action Leaders teams on County Action Plans;; Communication and Engagement; Programmatic Actions; and Monitoring and Data Management.

Action: No action required.

C. Written Reports – Self Explanatory

1. Program Reports

- a. Act 38 Nutrient and Manure Management Program Evaluations
- b. Act 38 Calendar Year 2020 Nutrient Management Plan Data
- c. Nutrient and Odor Management Program Measurables Report
- d. January 2021 Status Report on Facility Odor Management Plan Reviews

- e. 2020 Chapter 91 Activities Report
 - f. Certification and Education Program Accomplishment Report
 - g. REAP Program Accomplishment Report
 - h. Conservation Excellence Grant Program Accomplishment Report
2. Ombudsman Program Reports – Southern Allegheny Region (Blair County Conservation District and Lancaster County Conservation District)

D. Cooperating Agency Reports – DCNR, PDA, Penn State, DCED, DEP, NRCS, PACD

DCNR – Secretary Cindy Adams Dunn reported that DCNR has been busy since Covid-19 began. DCNR is taking the lead on Riparian Forest Buffers. The Buffer program is statewide...it is often linked to the Chesapeake Bay Fund. Secretary Dunn explained the following:

C2P2 Riparian Forest Buffer Grants

Next grant application round opens January 19th, 2021, and will close April 14th, 2021 at 4:00pm EST.

- Minimum award of \$50,000
- 1:1 Match required (cash or in-kind)
- For conventional or multifunctional riparian forest buffers.
- Available statewide.
- Can include funding for outreach, staff time, etc.
- Minimum buffer width is 15 feet. Applicants strongly encouraged to implement an average buffer width of at least 35 feet.
- Funding can be used for post-planting establishment within the grant period.
- 25-year landowner agreements are required.

PACD Multifunctional Buffer Sub-grants

Applications accepted on a rolling basis until funds are exhausted.

- No minimum/maximum award amount.
- Must be for shovel-ready projects.
- No match required.
- For multifunctional riparian forest buffers only.
- Available statewide.
- An overall minimum width of 35 feet is recommended.
- 25-year landowner agreements are required.
- Ineligible expenses include staff time for outreach/education, legal and advertisement fees, site prioritization/design, and purchasing equipment.
- Only Conservation Districts are eligible but may partner with other orgs.

PDA – Deputy Secretary Greg Hostetter reported that the first ever virtual Pennsylvania Farm show was successful. During the Farm Show, a virtual Cultivating Tomorrow Series occurred at 10:00 a.m. and 8:00 p.m. each day. Virtual visitors to the Farm Show website

exceeded 300,000. Participants from all 50 states, the United Kingdom, and Canada were included in this total. There were over 28 culinary demonstrations. Two-hundred educational opportunities were offered. The Farm Show trail map showcased PA Preferred products that are offered. In the Junior Beef Class, animals were dropped off at the Farm Show Building to be judged. 130 homes participated in the butter sculpture event. Agriculture fared well in the budget that was passed. The PA Farm Bill was included in the budget for a second year. With COVID, Agriculture is learning to manage and continue operations successfully.

PSU – Chris Houser reported that Matt Royer from the Agricultural Environmental Center at Penn State has wrapped up the BMP surveys. Penn State is now involved with Phase III WIP in Lancaster County. Penn State continues to collaborate with DEP, PDA and the Commission on enhancement to PAOneStop mapping and planning modules. From October 15, 2020 to January 15, 2021, there were 7,000 PA One Stop users. There is a 50% off discount for 70 of Penn State Extension’s online courses in January 2021. Pesticide Education are having no in-person meetings. They are completing workbooks with stakeholders. The Master Watershed Program will have 30 active programs by Spring 2021.

DCED – No report.

DEP – Secretary Patrick McDonnell reported that Growing Greener grants were announced in December 2020. There are 149 projects across the state...31 conservation districts received over \$10.2 million in 52 grants. Chapter 102 ePermitting is going live on January 25, 2021 for PAG02. New courses continue to be added to the Clean Water Academy. The deadline to file for CAFO permit NOI annual reports was January 1, 2021. It has now been extended to February 15, 2021. To date, 93% of submissions have been received.

NRCS – Denise Coleman reported that as of January 22, 2021, NRCS will be accepting proposals for its Conservation Innovation Grants (CIG) program. It is anticipated that a total of up to \$225,000 will be available to fund multiple, one-to-three-year projects. Single projects may be eligible to receive \$5,000 to \$75,000 in funding. Proposals are due by March 15, 2021.

PACD – Brenda Shambaugh reported that the PACD Executive Council meeting will take place on January 28, 2021 at 10:00 a.m. Conservations districts assembled individual ‘highlights’ pages, and all of these pages were sent to legislators. Included were highlighted projects and the amount of money going into counties. PACD is always happy to work with all of their conservation partners.

Adjournment: Meeting adjourned at 3:13 p.m.

Next Public Meeting: February 9, 2021 – Conference Call
March 9, 2021 - Public Meeting, Virtual, via Zoom

STATE CONSERVATION COMMISSION CONFERENCE CALL

Skype Conference Call

Tuesday, February 9, 2021 @ 8:30 am

DRAFT MINUTES

Members Present: Secretary Russell Redding, PDA; Secretary Patrick McDonnell, DEP; Michael Flinchbaugh; Don Koontz; MaryAnn Warren; Denise Coleman, NRCS; Brent Hales, Penn State Extension; Adam Walters, DCED; and Brenda Shambaugh, PACD.

A. Public Input: None.

B. Agency/Organization Updates

1. DCNR – DCNR was not represented on the call. The following information was provided by Drew Gilchrist as an agency report.

Parks, forests, and trails have been proven to be essential during the pandemic. Pennsylvania state park and forest lands have remained open and accessible to all during the pandemic for outdoor recreation because of their importance to mental and physical health. State park attendance increased from 37 million in 2019 to more than 46.9 million in 2020, a 26.6 percent increase. DCNR saw an increase of 7.5 million users/visits to its website in 2020 over the previous year, including more than 4 million new users.

A recent Lion Poll conducted by the Center for Survey Research at Penn State Harrisburg of 1,001 Pennsylvanians during fall 2020 indicate:

- Four out of five Pennsylvanians who visited parks and trails believe that time spent outdoors is essential to their physical and mental health during the pandemic. The poll results confirm what DCNR been seeing with our visitation numbers -- that Pennsylvanians are turning to the outdoors for healthy activity and solace during the challenging times of the pandemic
- Eighty-six percent of those who visited parks, trails or open spaces agree time spent in these areas has been essential to their mental and/or physical health during the COVID-19 pandemic.
- Seventy-five percent agree that funding outdoor recreation facilities, such as parks, trails, and open spaces, should be considered a top priority by state and local governments.
- Thirty-seven percent of respondents said their interest in learning new outdoor recreation hobbies/skills increased since the coronavirus/COVID-19 pandemic began.

Related to the economic impact of outdoor recreation, respondents indicated:

- About one out of five tried a new outdoor recreation activity.
- One out of five bought outdoor recreation equipment, gear or clothing.

2. PACD – Brenda Shambaugh

Brenda reported that many conservation districts are planning on having drive-by seedling sales. The NACD meetings are occurring during the week of February 8, 2021. Also during this week is the Leadership Development ‘Virtual’ Staff Conference. Over 200 persons are registered. The PACD Regional meetings will be virtual this Spring. PACD learned that the Department of Education will publish new Science curriculum standards for Pennsylvania, but there will not be an environmental component included in those proposed standards.

3. Pennsylvania Department of Agriculture – Secretary Russell Redding

Secretary Redding reported that the Pennsylvania Farm Show was held virtually for the first time in 105 years. It worked well and had 800,000 Facebook visitors. Every US state participated, and there was also international participation. Thanks to Penn State for providing content for this event. According to the FY2021-22 proposed Governor’s budget, conservation programs will continue to be level-funded. PDA worked with DEP and DCNR to submit the Conowingo WIP. Climate and carbon discussions continue at the national level with other states and environmental organizations. Thanks to Penn State for the 2020 voluntary practices survey.

4. Penn State – Brent Hales

Brent Hales reported that Penn State is trying to figure out how to do activities and events that are normally done in person. All activities will comply with the Governor’s orders. Penn State will continue to be engaged with the Agricultural sector across Pennsylvania.

5. DEP – Secretary Patrick McDonnell

Secretary McDonnell reported that the Annual All-Bay Meeting for counties within the Bay Watershed will be open to all conservation districts across the state. The ‘virtual’ meeting will be held on March 16 and 17, 2021. DEP awarded Growing Greener Grants for CREP implementation. Mini-grants and engineering and technical assistance were also awarded to PACD. Just over 100,000 acres are enrolled in CREP which could produce 2 million pounds per year of nitrogen reduction. The Ag Reimbursement Program is in its third year with \$637,000 remaining. DEP has received over 300 applications in the program representing over 400,000 planned acreages. The 102 ePermitting system went live on January 25, 2021. There is a new PAG-02 fact sheet that is available. There is an ePermit test site available known as the ‘Sandbox’ which allows user to practice submission of a permit through the ePermitting system..

6. NRCS – Denise Coleman

Denise reported that the EQIP and Conservation Stewardship Program allocations were received. There was a \$4 million shortfall from last year. NRCS hopes to hear more about this in mid-March 2021.

7. DCED – Adam Walters – no report.**C. Information and Discussion Items**

1. **Statement of Financial Interests (Karl Brown)** – *State Conservation Commission members are reminded that as “Public Officials” they are required to complete their Statements of Financial Interests forms as required by state ethics laws. Information will be sent to members in late February and members must complete these forms (online) no later than May 1st.*

Conservation District Directors are also considered Public Officials and most District Employees are considered Public Employees. Any Conservation district employee that meets one or more of the criteria in the definition below **MUST** fill out a Statement of Financial Interest. Completing a statement is not optional. It is required by law. For district directors and district employees, statements are to be completed and filed with the Conservation District no later than May 1st. The general rule with this form is “when in doubt, fill it out”.

“Public Official” includes any person (*such as a conservation district director*) appointed by a governmental body (such as the board of county commissioners or the county council)

“Public Employee” includes any individual employed by the Commonwealth or a political subdivision (*like a conservation district*) who is responsible for taking or recommending official action of a non-ministerial nature with regard to: Contracting or procurement; Administering or monitoring grants or subsidies; Planning or zoning; Inspecting, licensing, regulating, or auditing any person; or Any other activity where the official action has an economic impact of greater than a de minimis nature on the interests of any person.

Conservation district directors and staff can refer to the Director Handbook (pp. 4-6) or the Red Ethics Pamphlet (p. 12-15 & 31-36) for additional information. If you require additional forms go to www.ethics.state.pa.us and click on "forms" on the left side of the page

2. **2021 Conservation District Director Nominations (Karl Brown)** – Nearly 80% of counties have submitted their director appointments to the Commission for review. The Commission has not yet received director appointments from the following counties: Allegheny, Beaver, Bucks, Columbia, Fayette, Lackawanna, Lancaster, Lebanon, Lehigh, Luzerne, Lycoming, Potter, Westmoreland, and Wyoming. Commission staff, in cooperation with Conservation District Field Representatives, will continue to work with

county chief clerks and county commissioners to ensure that conservation district appointments are made and forwarded to the Commission for review. DEP Conservation District Field Representatives and Barb Buckingham (bbuckingha@pa.gov) at the State Conservation Commission are available to answer questions concerning the director nomination process.

3. **FY 2021 - 22 REAP Guideline Changes (J. Semke/Johan Berger)** – Each year the Commission has the opportunity to revise and update the REAP Tax Credit Program guidelines. Commission staff is compiling a list of potential changes that may be necessary for the FY 2021-22 REAP Program Guidelines. If Commission members have any suggested changes or updates that may be necessary or beneficial, please contact Joel Semke with your recommendations. In addition, Commission staff will be meeting with staff of the Independent Fiscal Office (IFO) on 2-10-21 to discuss draft findings of the IFO’s audit of the REAP Tax Credit Program. When complete, IFO’s REAP Tax Credit Report will make recommendations for possible changes to the REAP Program.

4. **FY 2021- 21 Proposed Budget Update (Karl Brown)** – On February 3, 2021, Governor Wolf will present his FY 2021-22 proposed state budget virtually to House and Senate members outlining funding priorities for FY 2021 and beyond. Funding to conservation districts and Commission program is proposed at levels consistent with FY2019 – DGLVR \$28.0million; Nutrient Management \$6.20 million; DEP (Conservation Districts) \$2.506 million and PDA (Conservation Districts) \$869,000. Secretaries McDonnell and Redding comment that they were pleased that funding to conservation districts and program have been maintained in this budget proposal.

5. **Conservation Excellence Grant Program (Johan Berger/Eric Cromer)** - The Commission was awarded a sub-grant of funds (\$3.848 million) as part of DEP’s Chesapeake Bay Implementation Grant Program for expansion of the Conservation Excellence Grant Program (CEG) in Tier 2 counties identified in the Chesapeake Bay Phase III WIP. The Commission took action to expand the CEG Program to Cumberland and Franklin counties in September 2020.
 - CEG Tier 2 Expansion - The ‘Agreement for Delegation of Administrative Responsibilities for the Conservation Excellence Grant Program’ and ‘Required Output Measures’ with Cumberland and Franklin County conservation districts have been completed. Both delegation agreements will provide up to \$1.154 million to each conservation district. Advanced payments to the districts for capital funds will be processed. Program staff are currently evaluating options for the distribution of FY2020 funds appropriated for the CEG program to current participating conservation districts or additional Tier 2 counties identified in DEP Chesapeake Bay Phase III WIP.
 - Public-Private Partnership – Lancaster Farmland Trust has submitted a proposal and scope of work for public-private partnership model that will utilize CEG’s financial bundling (grants, tax credits and loans) for the implementation of best management practices mimicking the CEG Program. This agreement will be for up to \$1.154 million. An agreement to facilitate disbursement of funds for the project is currently in circulation for signature. The Project effective period will be from January 1, 2021 – June 30, 2020.

6. **e-Permitting (Aneca Atkinson/Tiffany Landis)** – The Chapter 102 e-Permit system went live January 25, 2021. Internal reference materials (e.g. SOP for PAG-02 NOI Review via e-Permit & User Guides) are updated and are available on the [Clean Water Academy](#) under ‘e-Permit Resources’. This includes a Q&A document from the internal 102 e-Permit trainings. There is also a new ‘PAG-02 Fact Sheet for e-Permit’ in [Clean Water Academy](#) under ‘Chapter 102 Internal Forms’ and within the ‘Fact Sheet’ folder. The e-Permit test site (i.e., Sandbox) is available, as of January 29, 2021. Please note that when the new Greenport release occurs, which is anticipated for March, CCD users will need to make a new accounts for the e-Permit test site. The external reference materials (e.g. e-Permit User Guide) are posted on the [Clean Water-Chapter 102 ePermit website](#). During the external training there were many questions on Electronic Filing Administrator (EFA) (i.e. applicant/client) registration process and access/permissions for Operators (e.g. Consultants). Resources are available on the website to provide guidance on this, including instructional videos on the registration process, a Getting Started Summary for EFAs/consultants, an EFA (e.g. Applicant) User Guide, and an Operator (e.g., Consultants) user guide. Please note a Q&A document from the external 102 e-Permit training will follow soon. BCW plans to create additional trainings on the e-Permit system and we will keep you posted as these are available. Contact Tiffany Landis with questions tilandis@pa.gov It was noted that hard copy permit submission is still available at the present time. It was also noted that 40 persons have registered to use the new ePermit system but, no permit applications have been submitted at this time.

7. **2021 Dates to Remember**

SCC Meetings – 1:00 PM

Virtual Meeting	March 9
Virtual Meeting	May 11

SCC Conference Calls – 8:30 – 10:00 AM

Conference Call	February 9
Conference Call	April 13

PA Agency and Conservation District Statewide Ag Meeting – March 16 & 17

Every year, DEP and PACD host an annual meeting for counties within the Chesapeake Bay Watershed. With the opportunity to host a virtual forum, the committee has decided to open this forum to all county conservation districts across Pennsylvania. The forum is scheduled to be held virtually on March 16 and March 17, 2021. The agenda and associated material will be shared when they become available.

Building for Tomorrow Leadership Development Program

2021 Virtual Staff conference February 8 – 12
 Registration Link ...

<https://www.paleadership.org/register-now-for-2021-virtual-staff-conference/>

2021 Board Leadership – Webinar Series February 15,16,17, 23, 24
Registration Link ...

<https://www.paleadership.org/register-now-for-the-2021-board-leadership-webinar-series/>

Native Plants and Pollinators Technical Training for CDs

Virtual February 18

PA Agency and Conservation District Statewide Ag Meeting

2021 Virtual Conference March 16 – 17, 2021

PACD Spring Regional Meetings – All will be Virtual 10:00 am -12:00 pm

North Central Region	March 18
South Central Region	March 24
South East Region	March 25
South West Region	March 30
North West Region	April 8
North East Region	April 16

Agricultural Technician Training

Boot Camp I – ‘Basic’ April 12 – 16, 2021 (Virtual/Classroom)
August 2-4, 2021 (Field)

Boot Camp II – ‘Advanced’ April 26 – 30, 2021

Also, check the Conservation District Training/Special Events Calendar at,
www.PACD.org Select the "Events" tab and then the "Training Calendar" tab.

8. **Next Meeting – March 9, 2021** **Virtual**

9. **Adjournment: 9:28 a.m.**



COMMONWEALTH OF PENNSYLVANIA
STATE CONSERVATION COMMISSION

DATE: February 11, 2021

TO: Members
State Conservation Commission

FROM: Karl J. Dymond, OM Program Coordinator
State Conservation Commission

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

SUBJECT: Odor Management Plan Review
Amos Zimmerman, Schuylkill County

KJ Dymond

Action Requested

Action to approve, is requested on the Amos Zimmerman odor management plan.

Background

This farm is located at 43 Molino Road, Orwigsburg, PA 17961; West Brunswick Township, Schuylkill County.

I have completed the required review of the subject odor management plan (OMP) listed above. Final corrections to the plan were received by the State Conservation Commission on February 10, 2021. The plan 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 for the operation.

Request for Action Memo: Amos Zimmerman OMP

Farm Description

The Amos Zimmerman agricultural operation is a proposed duck and steer 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 418 feet for the nearest animal housing facility, 348 feet for the Round Tank and 480 feet for the Stacking Building (manure storage facilities).

- A property line setback waiver is not required to meet the Nutrient Management Program regulations.

There are not any Other Livestock Operations (≥ 8 AEUs) within the Evaluation Distance Area of this plan.

The surrounding land use for this area is rural, including the predominant terrain features of rolling hills of open farm land and large forested areas, with homes along the road frontage. A small trailer park is in the eastern and southern 600' – 1200' quadrants; it is the majority of the OSI points, causing this plan to be a required Level II Odor BMP plan.

Assessment**Animal Housing Facilities:**

Existing Facilities – This site does not include any animals or existing animal housing facilities.

Proposed Regulated Facilities – This plan proposes the expansion of the operation with 16,000 ducks (109.6 AEUs) in the following animal housing facilities:

- Duck Barn #1 – 63' x 400' – 8,000-duck capacity
- Duck Barn #2 – 63' x 400' – 8,000-duck capacity
- Note – 3 steers (2.85 AEUs) will also come on-site. They will be pastured only.

Manure Storage Facilities:

Existing Facilities – This site does not include any existing manure storage facilities.

Proposed Regulated Facilities – This plan proposes the expansion of the operation to include the following manure storage facilities:

- (Liquid Manure) Round Tank – 80' x 12' – 375,800-gallon capacity
- (Solid Manure) Stacking Shed – 60' x 40' x 6' wall – 15,750 cu.ft. (235-ton) capacity

Request for Action Memo: Amos Zimmerman OMP

- A property line setback waiver is not required to meet the Nutrient Management Program regulations.

Odor Site Index

On January 19, 2021, as part of the pre-plan submission program requirements, I met on-site with the operator, the plan writer and Dr. Mikesell, PSU OM Program Technical Advisor, to review the site conditions, proposed Level II Odor BMPs, and management characteristics of the operator. After this meeting, the plan writer and 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.

Special Site Conditions: The following special site condition exists for this site and was considered in the assessment and completion of the Odor Site Index for the plan: the significant amount of existing shielding (dense vegetation and topography) in the majority of the OSI quadrants.

The confirmed Odor Site Index value for this proposed duck operation indicates a high potential for impacts with a score of 147.4. 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 Level I Odor BMPs. This plan includes the following required Level II Odor BMPs:

- Liquid-Manure Bio-Cover – *Bio-covers work very much like biofilters. Organic material is applied to the surface of the liquid manure storage (Round Tank). Aerobic bacteria thrive on the surfaces and reduce odors by metabolizing the compounds that are volatilized from the surface of the liquid manure.*
- Vegetative Buffer for Filtering – *Multiple rows of trees (3-rows) and fast-growing vegetation will be planted on the southern side of the Round Tank (liquid Manure Storage Facility). 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.*
- Solid Manure Storage Systems Management – *Manure Storage Facility will be enclosed by three walls and a roof to prevent precipitation from soaking the manure pile and to minimize any wind stripping.*

Recommendation

Based on staff reviews, the OMP for the Amos Zimmerman operation meets the planning and implementation criteria established under the PA Nutrient & Odor

Request for Action Memo: Amos Zimmerman OMP

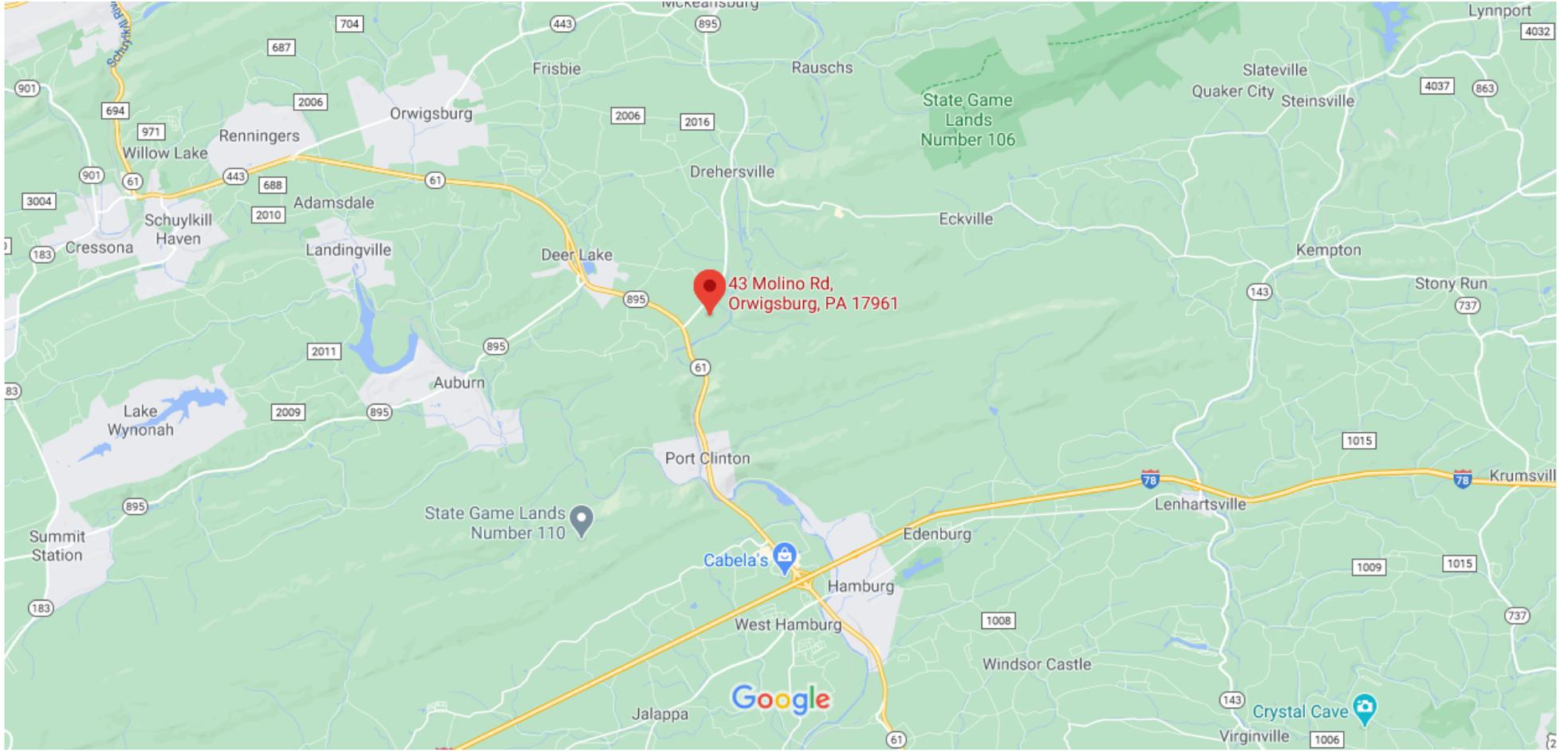
Management Act and Facility Odor Management Regulations. I therefore recommend the plan for State Conservation Commission approval.

The Commission acted to approve / disapprove this odor management plan submission at
the public meeting held on _____.

Karl G. Brown, Executive Secretary

Date

43 Molino Rd



Map data ©2021 2 mi

Odor Management Plan

Prepared For:

Amos Zimmerman

43 Molino Road
Orwigsburg, PA 17961

County/ Municipality: Schuylkill Co / West Brunswick Twp.

Mailing Address
107 Mountain Trail Road
Newmanstown, PA 17073
717-821-0440

Prepared By:

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For Official Use Only	
Date of Plan Submission:	<u>January 25, 2021</u>
Date of Plan Approval:	_____
Date(s) of Plan Updates (not requiring SCC action):	

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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: Jedd Moncavage Certification number: 13OMC
 Signature of Planner:  Date: _____
 Date(s) Evaluation Distance Area Site Visit Conducted: 8/18/2020

Odor Management Plan Name: Amos Zimmerman Odor Management Plan

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:

Amos Zimmerman Date: 1-22-20

Print Name of Operator/ Authorized Representative:

Amos Zimmerman

Title of Operator/ Authorized Representative:

Owner/Operator

Business Legal Name of the Operation:

Plan Summary

A. Operation Summary (see Appendix 1 to view complete Operation Information)

Proposed Facilities:

Detail the Animal Type associated with the Proposed Facilities and that is 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 / Steers
Proposed Animal Numbers:	16,000 / 3
Proposed AEUs (per animal type):	109.6 + 2.85 = 112.45
Voluntary Existing Animal Type:	None
Voluntary Existing AEUs (per animal type):	0
Total AEUs Covered by this Plan:	112.45
AEUs per acre for the operation:	102.23

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

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

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: 147.4

C. Odor BMP Implementation, Operation & Maintenance Schedule

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.

Act 38 of 2005, Odor Management Plan

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 factors 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:**

Animal Housing Facilities Related Odor BMPs**1. Steps taken to reduce dust and feed accumulation in pens, aisles, and on animals.**

- Feed Cleanup – Spilled feed will be removed promptly.
- Dust Control of Ventilation Components – Fan motors, blades, and shrouds will be cleaned between each flock (approximately every 54 weeks)
- Feed Wastage – Feed wastage is generally related to substandard feed and pellet quality and will be monitored daily. Feed refusal behavior will be reported to the feed company; adjustments in feed preparation will be made as needed.
- Cleaning and Sanitation – Buildings will be power washed and disinfected between each flock (approximately every 54 weeks)

2. Ventilation is managed to provide sufficient fresh airflow throughout the facility to keep animals and facility surfaces clean and dry.

- Ventilation Components – Ventilation system components including fan motors, blades, and shrouds will be checked daily for functionality and repaired as needed.
- Mechanical Ventilation – The ventilation system will be designed to provide appropriate ventilation during the winter months. As ambient temperature increases, ventilation rate will automatically increase via staged ventilation. Inlet openings will be automatically controlled by a static pressure monitor or by temperature, which will also be integrated into the computer controls.
 - Fans shall be cleaned and inspected between each flock
 - Inlet openings shall be adjusted daily to provide adequate air distribution
 - Static pressure monitors will be calibrated annually
 - Curtains will be controlled as needed
 - Curtains, cables, winches, and other components of the ventilation system shall be inspected annually

3. Manure will be managed to minimize damp, exposed manure that contributes to odor generation.

- Moisture Control – Water delivery system and drinkers will be checked daily for leaks. Repairs will be performed as needed. Drinkers will be checked for leakage and adjusted for height as needed.
- Litter Maintenance – Approximately 1 cu yd of shavings will be spread in the barns each day. Litter will be completely cleaned out between flocks
- Scraper System – manure deposited below the drinkers in the slotted floor portion of the barn will be transferred to the manure storage via a scraper system. The scrapers will run 2-3 times per week.
- Monitor for Egg Jams – Facilities will be inspected daily for broken eggs. For systems using egg belts, seams will be monitored daily for failure. Broken eggs should not be discarded in the manure storage.
- Clean Egg Conveyors – Components of the egg conveyors, including the egg belt, the rod conveyor, and escalators and de-escalators will be cleaned thoroughly cleaned between each flock (approximately every 54 weeks)

4. Mortalities will be removed daily and managed appropriately.

- Composting – mortalities shall be removed daily and placed in the manure stacking building for composting and will be composted in a separate stack. As the composting process is completed the finished compost shall be land applied or exported in accordance with the nutrient management plan.

5. Feed nutrients will be matched to animal nutrient requirements to avoid excess nutrient excretion.

- Professional nutritionist formulates diets to match animal nutrient requirements.

Manure Storage Facilities Related Odor BMPs

6. Manage Manure Storage Facilities to reduce exposed surface area and off-site odor transfer.

- Manage Surface Water
 - Keep surface water from entering manure storage area - Grade surrounding area to avoid run on.
 - Keep surface water from leaving the manure storage area - Manage to avoid runoff of liquid from bottom of the stack by covering or mixing in dry material to absorb rainwater.
- Reduce liquid manure exposure to air - Liquid manure will be added from the bottom of the storage below liquid level.
- Minimize agitation odors - Minimize length and duration of manure agitation periods.
- Manure Storage Area Cleanliness - A visual inspection of the manure storage areas will be completed every time manure is hauled to ensure that any manure scattered during transport activities is cleaned up in a timely manner.

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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:

Liquid Manure Storage Bio-Cover – Organic material applied to the surface of a liquid manure storage allows aerobic bacteria to thrive on the surfaces and reduce odors by metabolizing the compounds that are volatilized from the surface of the liquid manure. - A floating biocover of chopped straw will be applied to the manure storage to a depth of approximately 12 inches no later than May 15th. The straw cover will be maintained so that at least 75% of the surface of the manure storage will be covered until October 1st or until the manure is removed, whichever comes first.

a. Implementation

The straw will be chopped with a commercial machine capable of simultaneously chopping and blowing the straw to at least the middle of the storage from two opposite sides of the storage. The straw will be applied to a depth of approximately 12 inches across the entire surface of the manure storage. Straw depth will be estimated by floating six beach balls (approximately 12 inches diameter) on the manure storage, spaced as evenly as possible across the surface. Straw will be applied until all the balls are covered and until the straw between the balls appears relatively level.

b. Operation & Maintenance

The integrity of the floating straw mat will be monitored weekly and estimated surface coverage will be recorded in a table similar to that presented below. If, at any time, the surface coverage drops below 75%, straw will be reapplied (within 2 weeks of the recording date) to achieve 100% coverage.

Date Activity Coverage 5/13/09	Initial straw application	100%
5/20/09	Monitor	100%
5/27/09	Monitor	90%
6/3/09	Monitor	85%
6/10/09	Monitor	60%
6/15/09	Reapply straw	100%
6/22/09	Monitor	100%
6/29/09	Monitor	90%
7/6/09	Monitor	80%
7/13/09	Monitor	75%
7/20/09	Monitor	75%
7/27/09	Monitor	50%
8/13/09	Reapply straw	100%

- c. **Odor BMP Lifespan** - The Bio-Cover will be implemented for the life of the liquid manure storage facility “Round Tank”, or until the plan is amended to replace this Level II Odor BMP with another.

Vegetative Buffer – multiple rows of trees and fast-growing vegetation planted 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. Implementation - Plant 3 rows of vegetation around the downwind side of the liquid manure storage

1. **Planting Timeframe** – the vegetative buffer shall be established immediately after the construction of the round tank manure storage in the fall of 2021, or if it is too late in the fall to plant, then no later than Spring 2022
2. **Plant Materials Information Chart**

Row	Spacing	Length of Planting	Species	Plant Spacing	Number of Plants
1	50ft spacing from the manure storage	226ft	Giant Miscanthus	6ft	37
2	15ft spacing from Row 1	248ft	Streamco Willow	10ft	25
3	20ft spacing from Row 2	280ft	Hybrid Poplar	16ft	18

3. Location and Layout – See Facility Layout map
4. Site Preparation & Planting Methods Notes
 - a. Site Prep – Remove debris and control competing vegetation to allow enough spots or sites for planting or planting equipment. Soil tests will be conducted, and soil amendments added, as to recommendations.
 - b. Irrigation System – Installation of a trickle or emitter irrigation system is highly recommended for all plantings. Install and begin supplemental irrigation for a minimum of three years.
 - c. Weed Control Barriers – Artificial weed control barrier cloth can be placed over the planting area, along with natural wood products. Apply mulch to a depth of 3” – 4”, at a minimum of 3’ wide mulch strip, or a 3’ diameter circle of mulch around each plant.
 - d. Planting Methods – For container and 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 to 3 buds showing above ground.

B. Operation and Maintenance

1. Inspections
 - a. Year 1 – Inspect Vegetative Buffer components biweekly during the growing season (spring to fall). Identify damaged areas and protect plants from damage so proper function is maintained. Replant during growing season. A higher level of care is required until 3 years after plant establishment.
 - b. Years 2 – 4 – Inspect Vegetative Buffer components monthly during the growing season (spring to fall). Identify damaged areas and protect plants from damage so proper function is maintained. Replant during growing season. A higher level of care is required until 3 years after plant establishment.
 - c. Years 5 & on – Inspect Vegetative Buffer components at least annually. Protect plants from damage so proper function is maintained. Replant during growing season.

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2. Maintenance Activities –

- a. Replace Deadstock – 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.
- b. Prune, Fertilize, Protect from Damage – Prune to maintain function, only after plants are established. Apply nutrients based on soil test results. Protect plants from damage so proper function is maintained.
- c. Weed Control – Control competing vegetation either mechanically, chemically, or with a mulch bed to allow proper establishment and growth. Replace woody mulch; reapply mulch to a depth of 3” – 4”.
- d. Irrigation – Provide supplemental irrigation for a minimum of three years post plant-establishment. Ensure irrigation equipment is properly working; replace components as needed

- C. **Odor BMP Lifespan** - The Vegetative Buffer will be implemented for the life of the liquid manure storage facility “Round Tank”, or until the plan is amended to replace this Level II Odor BMP with another.

Solid Manure Storage Systems Management - Manure storage enclosed by three walls to prevent wind stripping and covered with a roof or tarp to prevent precipitation from soaking the pile.

A. Implementation

1. Timeframe - this Level II Odor BMP will be implemented at the time of the construction of the solid-manure storage “Stacking Building”.

B. Operation & Maintenance

1. Inspection: Inspections are conducted to verify the integrity of the facility (floor, walls, wall structural connections (e.g. bolts, gusset plates, truss, wall timbers, etc. and roof).
 - The structure shall be checked on a monthly basis for damage or punctures to the metal siding and roofing.
 - The structure shall be checked after storm events for damage or leaks.
2. Maintenance: Any damage or leaks shall be repaired as soon as possible.

- C. **Odor BMP Lifespan** - Solid Manure Storage Systems Management will be implemented for the life of the solid manure storage facility “Stacking Building”, or until the plan is amended to replace this Level II Odor BMP with another.

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 BMPs 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:

Animal Housing Facilities Related Odor BMPs

1. Steps taken to reduce dust and feed accumulation in pens, aisles, and on animals.

- Feed Cleanup – Document any discrepancies with feed cleanup and corrective actions taken.
- Dust Control of Ventilation Components – Document any discrepancies with the cleaning schedules and corrective actions taken. Document any repairs
- Feed Wastage – Document if feed refusal behavior occurs or if adjustments in feed preparation are made.
- Cleaning and Sanitation – Document any discrepancies in the cleaning and sanitation schedule and the corrective actions taken.

2. Ventilation is managed to provide sufficient fresh airflow throughout the facility to keep animals and facility surfaces clean and dry.

- Ventilation Components – Documentation will be made if any malfunction or damage occurs to the ventilation system components and when repairs are completed.
- Mechanical Ventilation – Documentation will be made if a malfunction occurs that does not allow for the proper adjustments to the ventilations system and when repairs are needed to restore functionality.

3. Manure will be managed to minimize damp, exposed manure that contributes to odor generation.

- Moisture Control – Documentation will be made if a leak occurs in the water delivery system and when any repairs are needed and when the repairs were completed.
- Litter Maintenance – Document any discrepancies in the litter maintenance and cleanout schedule and the corrective action taken.
- Scraper System – Document any discrepancies with the scraper running timeframes and the corrective actions taken. Document if a malfunction occurs to the scraper system and when repairs are completed.
- Monitor for Egg Jams – Documentation will be made if any egg jams occur or if repairs to the egg conveyors are needed.
- Clean Egg Conveyors – Document any discrepancies with the cleaning of the conveyor components and the corrective actions taken.

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4. Mortalities will be removed daily and managed appropriately.

- Composting – Document any discrepancies with the daily transferring of mortalities and the corrective actions taken. Document if a catastrophic mortality event occurs or if another methods of mortality disposal is used.

5. Feed nutrients will be matched to animal nutrient requirements to avoid excess nutrient excretion.

- Documentation will be made whenever the feed ration is changed.

Manure Storage Facilities Related Odor BMPs**6. Manage Manure Storage Facilities to reduce exposed surface area and off-site odor transfer.**

- Manage Surface Water - Documentation will be made if any surface water enters the manure storage or if any runoff occurs from the bottom of the stack.
- Minimize agitation odors - Documentation will be made if extended agitation periods occur.
- Manure Storage Area Cleanliness - Document any discrepancies with the manure transport cleanup activities 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:

Liquid Manure Storage Bio-Cover

- Implementation: Document annually when the bio-cover is implemented each spring on the manure storage.
- Inspections: Document when inspections are performed and actions required for maintenance
- Maintenance: Document if additional material needs to be added to maintain cover.

Vegetative Buffer

- Implementation: Documentation will be made when the initial implementation of the plantings occurs
- Inspections: Document when inspections are performed and actions required for maintenance
- Maintenance: Documentation will be made when replacement of dead or dying vegetation is needed

Solid Manure Storage Systems Management

- Inspections: Document when inspections are performed and actions required for maintenance
- Maintenance: Documentation will be made when repairs are required

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)

Odor Management Plan Name: Amos Zimmerman Odor Management Plan

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 _____

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

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

Level II Odor BMPs – Quarterly Observation Log YEAR _____

(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:*

<input type="checkbox"/> 1 st Quarter (January)	<input type="checkbox"/> 2 nd Quarter (April)	<input type="checkbox"/> 3 rd Quarter (July)	<input type="checkbox"/> 4 th Quarter (October)
--	--	---	--

LEVEL II ODOR BMP NAME: Liquid Manure Storage Bio-Cover		
<i>List ACTIVITIES</i>	<i>DATE</i>	<i>NOTES</i>
<i>Implementation</i>		
<i>Inspections</i>		
<i>Maintenance</i>		

Level II Odor BMPs – Quarterly Observation Log YEAR _____

(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:*

<input type="checkbox"/> 1 st Quarter (January)	<input type="checkbox"/> 2 nd Quarter (April)	<input type="checkbox"/> 3 rd Quarter (July)	<input type="checkbox"/> 4 th Quarter (October)
--	--	---	--

LEVEL II ODOR BMP NAME: Vegetative Buffer		
<i>List ACTIVITIES</i>	<i>DATE</i>	<i>NOTES</i>
<i>Implementation</i>		
<i>Inspections</i>		
<i>Maintenance</i>		

Level II Odor BMPs – Quarterly Observation Log YEAR _____

(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:*

<input type="checkbox"/> 1 st Quarter (January)	<input type="checkbox"/> 2 nd Quarter (April)	<input type="checkbox"/> 3 rd Quarter (July)	<input type="checkbox"/> 4 th Quarter (October)
--	--	---	--

LEVEL II ODOR BMP NAME: Solid Manure Storage Systems Management

<i>List ACTIVITIES</i>	<i>DATE</i>	<i>NOTES</i>
<i>Inspections</i>		
<i>Maintenance</i>		

Appendix 1: Operation Information

Part A: Odor Source Factors

1. **Site Livestock History:** There were no livestock housed on this operation in the past 3 years.
Detail the Maximum AEUs of Livestock on the site 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.

2. **List the Existing Animal Types:** None **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

Act 38 of 2005, Odor Management Plan

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.

6. (a) <u>Proposed Facility OSI Animal Types:</u>	<u>Ducks</u>	<u>Steers</u>
Proposed Animal Numbers per animal type:	16,000	3
Proposed AEUs per animal type:	109.6	2.85

(b) <u>Voluntary Existing Animal Types:</u>	<u>None</u>
Voluntary Existing Animal Numbers:	<u>0</u>
Voluntary Existing AEUs per animal type:	<u>0</u>

(c) <u>Total AEUs Covered by this Plan:</u>	<u>112.45</u>
--	---------------

(d) Acres for the operation associated with an approved Act 38 NMP or acres utilized for the CAO calculation: 1.1

(e) Total AEUs/ Acre for the operation: 102.23

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.

(f) 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.

7. 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 Barn 1	63ft x 400ft	8,000 ducks
Duck Barn 2	63ft x 400ft	8,000 ducks

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8. 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.

The duck barns will handle manure as a liquid and a solid. There will be a slotted floor shallow manure transfer pit below each row of drinkers. Manure deposited in the pit will be transferred to the Round Tank Manure Storage using a scraper system that will be run 2-3 times per week. The areas below the feeders and nesting boxes will collect manure as a solid using shavings as bedding. Approximately 1 skid loader bucket (1cu yd) of shavings will be spread in each barn each day. The solid manure will only be cleaned out between flocks and stored in the Stacking Building until it can be spread or exported. It is estimated that 3/4 of the manure will be collected as a liquid and 1/4 will be collected as a solid.

Steers will be on pasture 100% of the time and all manure will be uncollected.

- (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
Round Tank		80ft x 12ft	375,800gal
Stacking Building		60ft x 40ft x 6ft wall	15,750cuft(235tons)

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

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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

9. 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)*

Construction of Barn 1 and both manure storage facilities will commence in the fall of 2021 when all appropriate permitting has been obtained. Construction of Barn 2 will occur approximately 2 years later.

- b. *Have construction activities started on any of the proposed regulated facilities?* Yes No *If yes, please detail:*

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

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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 measurement:

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 418(ft.) Not Applicable
 b. Manure Storage Facility measurement (Storage Building) 480(ft.) Not Applicable
 c. Manure Storage Facility measurement (Round Tank) 348(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 / NA

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.*

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

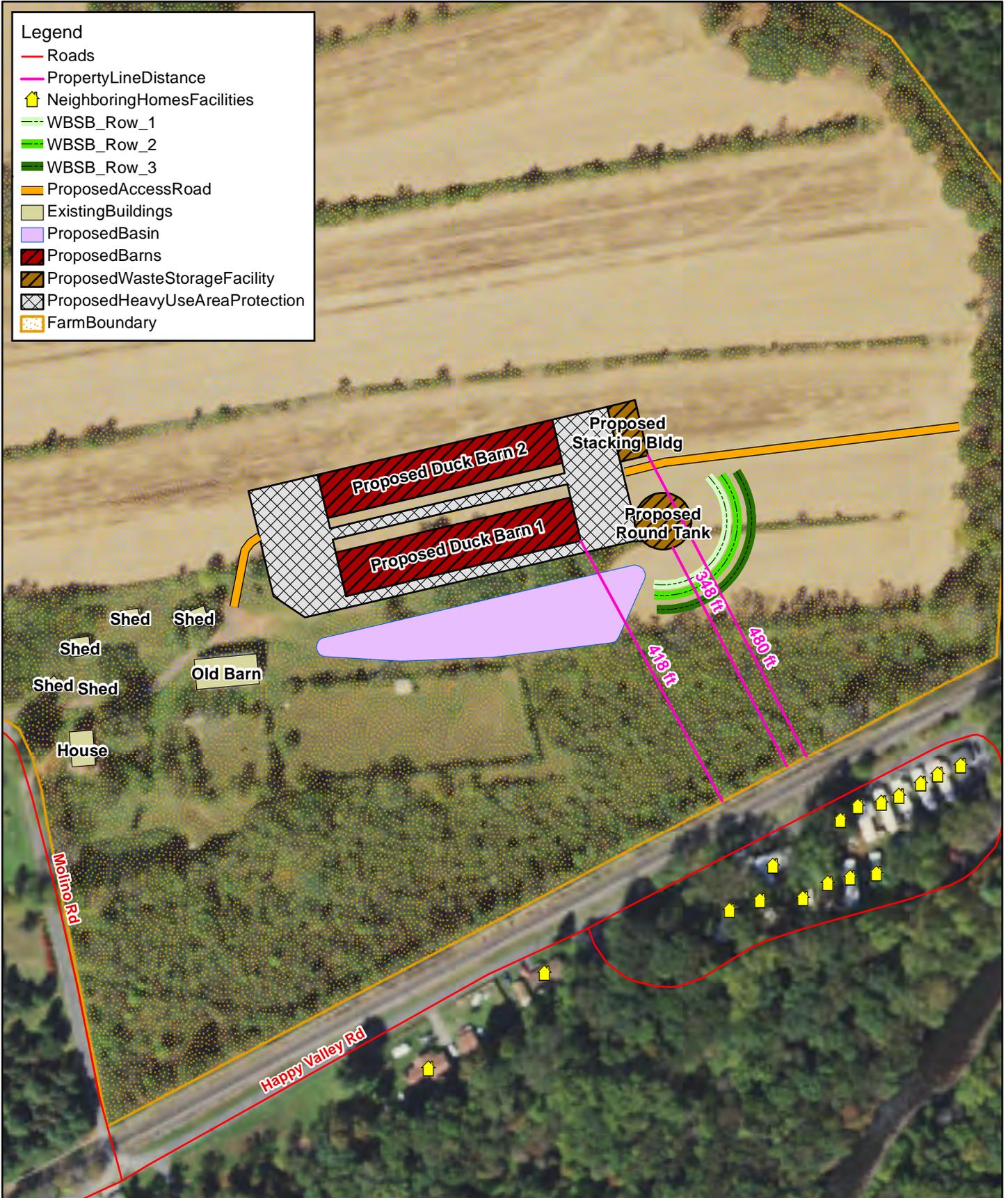
The purpose of the site map is to facilitate the plan review process of identifying specific details about the operation being evaluated. Odor Management Plans must include a site map of the operational related facilities drawn to scale with a map legend, identifying at a minimum the following:

- 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

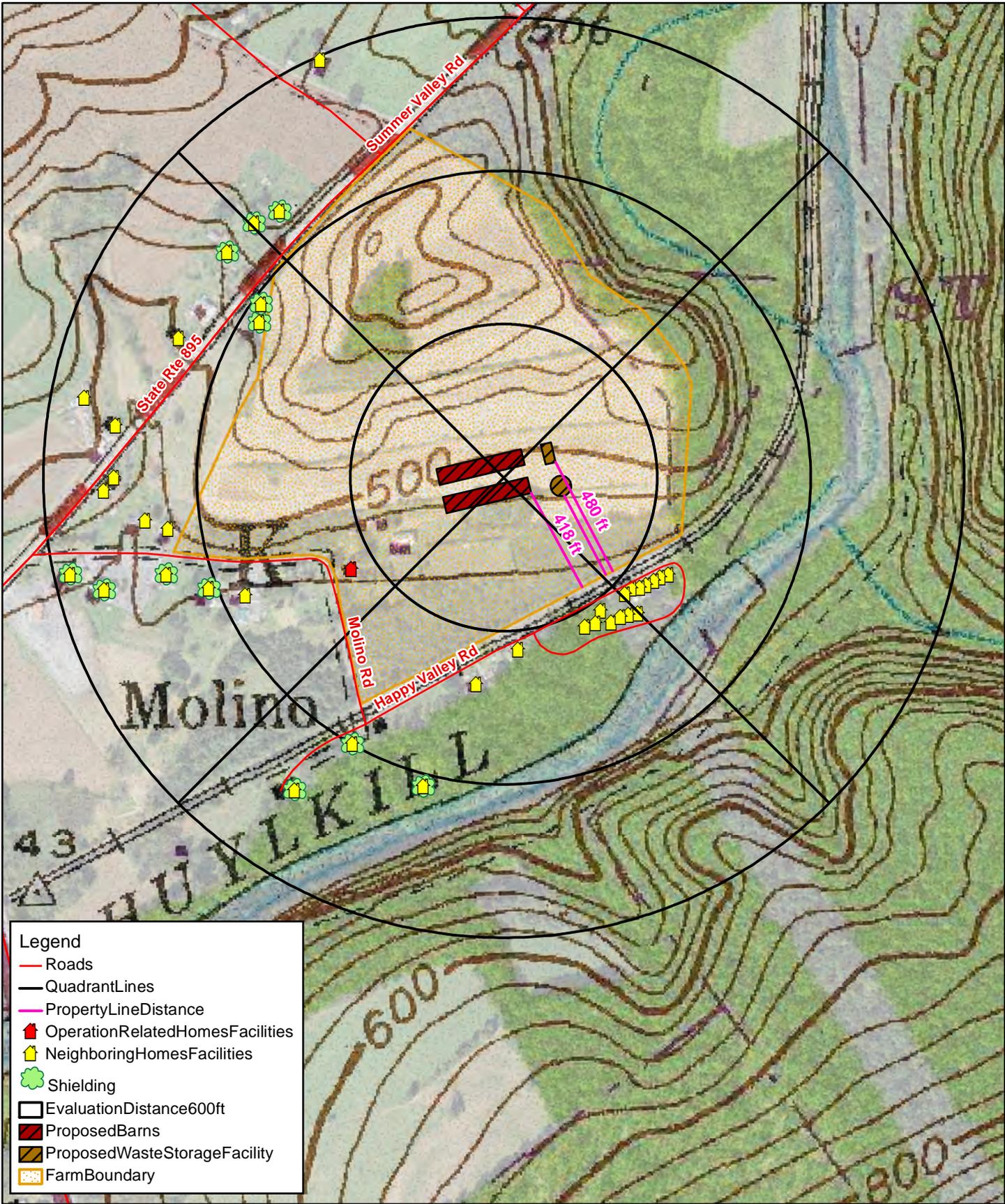
If there are multiple facilities on the site, detail the name of each of the facilities as per what the operator refers to them as, i.e. Layer #1 – Layer #5, mortality composting facility, etc.

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.

Amos Zimmerman Facility Layout Map



Amos Zimmerman Odor Management Plan Map



Legend

- Roads
- Quadrant Lines
- Property Line Distance
- 🏠 Operation Related Homes/Facilities
- 🏠 Neighboring Homes/Facilities
- 🌿 Shielding
- Evaluation Distance 600ft
- ▨ Proposed Barns
- ▨ Proposed Waste Storage Facility
- ▨ Farm Boundary

Appendix 3: Plan Evaluation – OSI

Act 38 Odor Management Plan - Odor Site Index

Agenda Item B.2.a

Operator Name		Amos Zimmerman	
Planner Name		Jedd Moncavage	
Type of Operation		Ducks	
Voluntary Existing AEUs		0	
Proposed AEUs		112.45	
Previously Approved AEUs		0	
AEUs Covered by OMP		112.45	
Evaluation Distance		1800'	
Part A: Odor Source Factors			OSI Score
Facility Size Covered by OMP		112.45	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		No (0 pct)	0
Ag Zoning		No (0 pct)	0
Preserved Farm		No (0 pct)	0
			0.00
Part C: Surrounding Land Use			
Other Livestock >8 AEU in evaluation distance		Zero (5pts)	5.00
Distance to Nearest Property Line		>300' (0 pts)	0.00
If nearest property is <300', is it preserved farmland		N/A (0 pts)	0.00
Neighboring Homes			93.15
Public Use Facilities			0.00
			98.15
Species Adjustment Factor		Swine,duck,veal (.15)	147.3725
Final OSI Score			147.3725
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	8	0	Select from List	Select from list	
Facility Value	15	7	3	0	0	
Home Shielding	<600 None (1)	600-1200 None (1)	Select from list	Select from list	Select from list	Total Facilities 56.0
# Public Use Facilities						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 56.0
South Quadrant	<600	600-1200	1200-1800	1800-2400	2400-3000	
# Neighboring Facilities	0	9	2	Select from List	Select from List	
Facility Value	10	5	2	0	0	
Home Shielding	<600 None (1)	600-1200 Some (.6)	1200-1800 All (.25)	Select from list	Select from list	Total Facilities 28.0
# Public Use Facilities						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 28.0
North Quadrant	<600	600-1200	1200-1800	1800-2400	2400-3000	
# Neighboring Facilities	0	0	3	Select from List	Select from List	
Facility Value	6	3	0.5	0	0	
Home Shielding	Select from list	Select from list	1200-1800 Some (.5)	Select from list	Select from list	Total Facilities 0.8
# Public Use Facilities						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 North 0.8
West Quadrant	<600	600-1200	1200-1800	1800-2400	2400-3000	
# Neighboring Facilities	0	3	12	Select from list	Select from list	
Facility Value	6	3	0.5	0	0	
Home Shielding	Select from list	600-1200 Some (.6)	1200-1800 Some (.5)	Select from list	Select from list	Total Facilities 8.4
# Public Use Facilities						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 8.4
						Grand Total 93.2

Appendix 4: Biosecurity

Biosecurity Protocol Contact Information

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

Name:	<u>Amos Zimmerman</u>	Phone:	<u>717-821-0440</u>
E-mail:	<u>azjill@emypeople.net</u>	Relationship:	<u>Owner/Operator</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.

Nutrient Management Plan:

The nutrient management plan is being developed in conjunction with this odor management plan and will be submitted for review to the Schuylkill County Conservation District shortly after this odor management plan is submitted to the State Conservation Commission.

AEU and AEU/ac Calculations

$16,000 \text{ breeder ducks} \times 6.85 \text{ lbs/bird} / 1000 \times 365 \text{ pd}/365 \text{ dpy} = 109.60 \text{ AEU}$ s

$3 \text{ steers} \times 950 \text{ lbs/ea} / 1000 \times 365 \text{ pd}/365 \text{ dpy} = 2.85 \text{ AEU}$ s

112.45 AEU s / 1.1 ac (pasture) = 102.23 AEU/ac

Existing Buildings and Structures

The bank barn and other existing buildings on site do not house any animals. If any animals are housed in any of these structure in the future then an amendment to this plan will be needed.

TOWNSHIP OF WEST BRUNSWICK SCHUYLKILL COUNTY, PENNSYLVANIA

ZONING MAP

- R-C RURAL CONSERVATION
- A-P AGRICULTURAL PRESERVATION
- R-1 RURAL RESIDENTIAL
- R-2 MEDIUM DENSITY RESIDENTIAL
- C-1 COMMERCIAL
- I-1 INDUSTRIAL

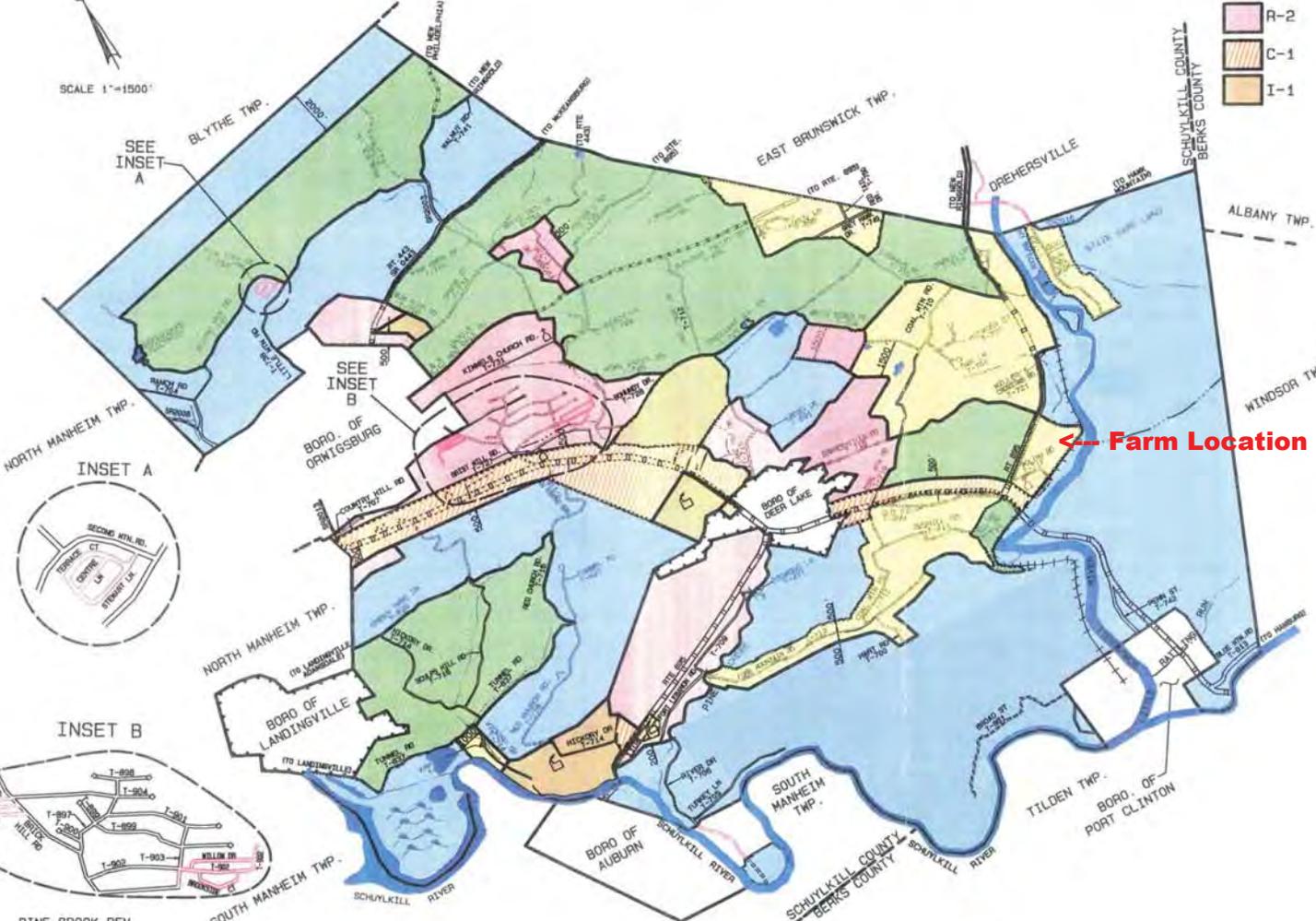
LEGEND

- MUNICIPAL BUILDING
- GAME COMMISSION OFFICE
- BLUE MTN. SCHOOL (ELEMENTARY/MIDDLE)
- CHURCH
- TOWNSHIP ROAD (UNPAVED)
- TOWNSHIP ROAD (PAVED)
- STATE ROUTE
- PRIVATE ROAD
- TWP. STONE BRIDGE
- TWP. BRIDGE (OTHER)
- RAILROAD
- SILT BASIN
- RECREATION PARK
- INDUSTRIAL LOCATIONS
- CAMPGROUND
- DRIVING RANGE

← Farm Location

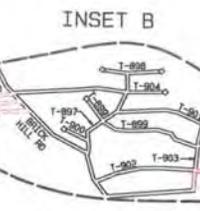
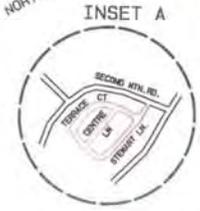


SCALE 1"=1500'



SEE INSET A

SEE INSET B



PINE BROOK DEV.

TOWNSHIP #	STRL. NAME
T-897	TALL OAKS RD
T-898	BRECKENRIDGE RD
T-899	TANGLEWOOD RD
T-900	DAK CUL-DE-SAC RD.
T-901	FLORENWOOD RD
T-902	VILLAGE RD
T-903	WOODHURST RD
T-904	BREEZY ACRES RD.

NOTE:
- PARCEL LAYOUT SHOWN IS BASED UPON TAX MAP INFORMATION.
- THIS MAP IS ONLY INTENDED FOR TOWNSHIP USE.

Ludgate Engineering Corporation

LINCOLN CORPORATE CENTER
10 VANGUARD DRIVE, SUITE 90
READING, PA 19608
570-366-1940
570-366-0980 (FAX)
COMPUTER FILE= P/8200198A-08, PRO

REV. DATE: 9-25-08 (ST. NAMES PER TWP.)
DATE: 8-15-08



**COMMONWEALTH OF PENNSYLVANIA
STATE CONSERVATION COMMISSION**

DATE: February 23, 2021

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

FROM: Brady Seeley, Conservation Program Specialist
State Conservation Commission

SUBJECT: Nutrient Management Plan Review and Requested Action
Pleasant Ridge Farm, LLC – Briana Yetter, Monroe County, Pennsylvania

Action Requested

Action is requested on the Pleasant Ridge Farm, LLC – Briana Yetter Nutrient Management Plan for their Concentrated Animal Operation (CAO) located in Monroe 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 January 13, 2021. As of that date, the plan was considered to be in its final form. The operation, located in Monroe County, is considered to be a Concentrated Animal Operation (CAO) under the PA Nutrient and Odor Management Act (Act 38 of 2005). The Commission is the proper authority to take action on this plan, because Monroe County Conservation District is not a delegated to perform plan review and action responsibilities under the Act 38 program.

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

Pleasant Ridge Farm operated by Briana Yetter is an existing equine operation in Monroe County. Ms. Yetter's operation consists of a total of 19.1 acres with 5.6 acres of pasture, 13.5 acres of farmstead. Animals raised on the operation are 22 mature riding horses. Total animal equivalent units (AEUs) housed at Ms. Yetter's operation is 24.2 AEUs. With 5.6 acres available for manure application, Ms. Yetter's animal density calculation works out to 4.32 AEUs / acre, classifying the operation as a Concentrated Animal Operation (CAO) under Act 38 of 2005.

Approximately 251 tons of horse manure is generated per year on the operation. Approximately 60 tons of manure is applied to pastures via grazing. All of the collected horse manure, approximately 191 tons, is exported. All manure from the horse barn and paddocks is removed daily and stacked on a permanent, improved stack pad measuring 25' x 35' x 4'. Collected manure is exported directly to known importers, Barry Malsom and Ross and Ross Nursery – Wayne Ross during the spring and fall, as well as, several small quantity exporters not exceeding 25 tons. Animal mortalities are managed offsite. The NMP does include the proper signed Exporter / Importer Agreements.

The receiving stream for the operation is Rattlesnake Creek, which is a High Quality, Cold-Water Fishery.

Best Management Practices listed to be implemented on Ms. Yetter' animal operation includes Forage and Biomass planting which is completed annually to bare areas in pastures.

Based on my review, the NMP developed for Pleasant Ridge Farm, LLC – Briana Yetter animal operation meets the requirements of the PA Act 38 Nutrient Management Regulations, and I therefore recommend Commission approval.

Nutrient Management Plan

For Crop Year(s)

2022

2023

2024

Prepared For

Operator's Name, Mailing Address, Telephone Number(s)

Pleasant Ridge Farm, LLC - Briana Yetter
122 Barn Swallow Lane
Cresco, PA 18326
(570) 856-4977

Operation's Location Address (if different than above)

As above

Site Name (CAFOs)

N/A

Prepared By

Nutrient Management Specialist's Name, Address, Telephone Number(s)

Nick Biondi
120 Lake Street
Ephrata, PA 17522
(717) 721-6795

Nutrient Management Specialist's Program Certification Number

#2278-NMC

Administratively Complete Date

November 18, 2020

Plan Approval Date

Plan Update Submission Date(s)

(updates to the approved plan not requiring board action)



NON-FINAL FORM

Version 2

This NMP may be revised prior to a formal action by the Conservation District Board. The final form of the plan will be available at least 7 days prior to Board action. You may contact the Conservation District to determine the current status of the NMP

January 13, 2021
Month, Day and Year

NON-FINAL FORM

Version 1

This NMP may be revised prior to a formal action by the Conservation District Board. The final form of the plan will be available at least 7 days prior to Board action. You may contact the Conservation District to determine the current status of the NMP

November 18, 2020
Month, Day and Year

FINAL FORM

This version of the plan will be considered for action by the Conservation District Board at their March 9, 2021 meeting

January 13, 2021
MONTH, DAY AND YEAR

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- Appendix 5: Phosphorus Index (Excel)
- Appendix 6: Manure Management (Word)
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- Appendix 8: Importer/Broker Agreements & Nutrient Balance Sheets (Word & Excel)
- Appendix 9: Operation Maps (Mapping Program)
 - Topographic Map
 - Soils Map
- Appendix 10: Supporting Information & Documentation (Excel)
(List below the required documents included in the plan.)

NMP Summary Notes

Crop Years 2022

CMU/Field ID	Notes
P1A	The grazing group includes the following animals on pasture: 4 horses from the Riding horses animal group, 6 hours per day for 365 days, from Jan. to Dec.
P1B	Grazing group includes the following animals on pasture: 7 horses from the Riding horses animal group, 6 hours per day for 365 days, from Jan. to Dec.
P2A	Grazing group includes the following animals on pasture: 4 horses from the Riding horses animal group, 6 hours per day for 365 days, from Jan. to Dec.
P2B	Grazing group includes the following animals on pasture: 7 horses from the Riding horses animal group, 6 hours per day for 365 days, from Jan. to Dec.

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

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

NMP Summary Notes

Crop Years 2023	
CMU/Field ID	Notes
P1A	The grazing group includes the following animals on pasture: 4 horses from the Riding horses animal group, 6 hours per day for 365 days, from Jan. to Dec.
P1B	Grazing group includes the following animals on pasture: 7 horses from the Riding horses animal group, 6 hours per day for 365 days, from Jan. to Dec.
P2A	Grazing group includes the following animals on pasture: 4 horses from the Riding horses animal group, 6 hours per day for 365 days, from Jan. to Dec.
P2B	Grazing group includes the following animals on pasture: 7 horses from the Riding horses animal group, 6 hours per day for 365 days, from Jan. to Dec.

¹ See rate calibration table (Nutrient Management Plan Summary Notes).
² Positive numbers = nutrient deficit; Negative numbers = nutrient excess

Nutrient Management Plan Summary

Crop Year(s) 2024

5.6

Total acres reported in NMP Summary: _____

Whole Farm Note: _____

If manure runs out for any field, consult Appendix 4 of the plan for that field. The fertilizer required on any part of the field that does not receive manure can be determined from the 'Net Nutrients Required' for that field.

Fall manure applications require at least 25% cover unless the crop management unit is planted to a cover crop in time to allow for appropriate growth to control runoff until the next growing season, or the manure is injected or mechanically incorporated within 5 days using minimal soil disturbance techniques consistent with no-till farming practices.

Operation Acres: _____

Total Acres: 19.1

Total Acres Available For Nutrient Application Under Operator's Control: Owned: 5.6

Rented: 0

Animal Equivalent Units Per Acre: 4.32

Animal Equivalent Units: 24.20

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		
							N	P ₂ O ₅	N	P ₂ O ₅	N	P ₂ O ₅	N
P1A	0.8	Established Pasture (without legume)	Field P1A - Grazing Calculator	Grazing	Grazing anytime with nutrient uptake during growing season	Grazing					82	-69	-54
P1B	1.8	Established Pasture (without legume)	Field P1B - Grazing Calculator	Grazing	Grazing anytime with nutrient uptake during growing season	Grazing					89	-24	-37
P2A	1.1	Established Pasture (without legume)	Field P2A - Grazing Calculator	Grazing	Grazing anytime with nutrient uptake during growing season	Grazing					91	-40	-70
P2B	1.9	Established Pasture (without legume)	Field P2B - Grazing Calculator	Grazing	Grazing anytime with nutrient uptake during growing season	Grazing					91	-41	-72

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

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

NMP Summary Notes

Crop Years 2024	
CMU/Field ID	Notes
P1A	The grazing group includes the following animals on pasture: 4 horses from the Riding horses animal group, 6 hours per day for 365 days, from Jan. to Dec.
P1B	Grazing group includes the following animals on pasture: 7 horses from the Riding horses animal group, 6 hours per day for 365 days, from Jan. to Dec.
P2A	Grazing group includes the following animals on pasture: 4 horses from the Riding horses animal group, 6 hours per day for 365 days, from Jan. to Dec.
P2B	Grazing group includes the following animals on pasture: 7 horses from the Riding horses animal group, 6 hours per day for 365 days, from Jan. to Dec.

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

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

Manure Spreader Calibration Notes

Crop Years 2022					
Manure Application Rate	Manure Spreader Used	Spreader Settings	Tractor Used (if applicable)	Tractor Settings (speed, gear, rpm, pto, etc.)	
N/A					

Manure Spreader Calibration Notes

Crop Years 2023

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

Manure Spreader Calibration Notes

Crop Years 2024

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

Additional Nutrient Management Plan Requirements

Manure Management and Stormwater BMP Implementation Summary

Best Management Practice	NRCS Practice Code ¹	BMP Location	Implementation Season & Year
Forage & Biomass Planting	512	Bare areas in pastures	Spring / Annually

¹ If applicable, enter USDA-NRCS Practice Code. For other non-technical BMPs, leave blank.

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.

There is no in-field manure stacking associated with this operation.

Additional CAFO Requirements

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

This operation is not a CAFO.

Proposed Manure Storage Description

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

There are no proposed manure storages for this operation.

Description of Planned Alternative Manure Technology Practices

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

No planned alternative manure technology practices are used on this operation.

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.

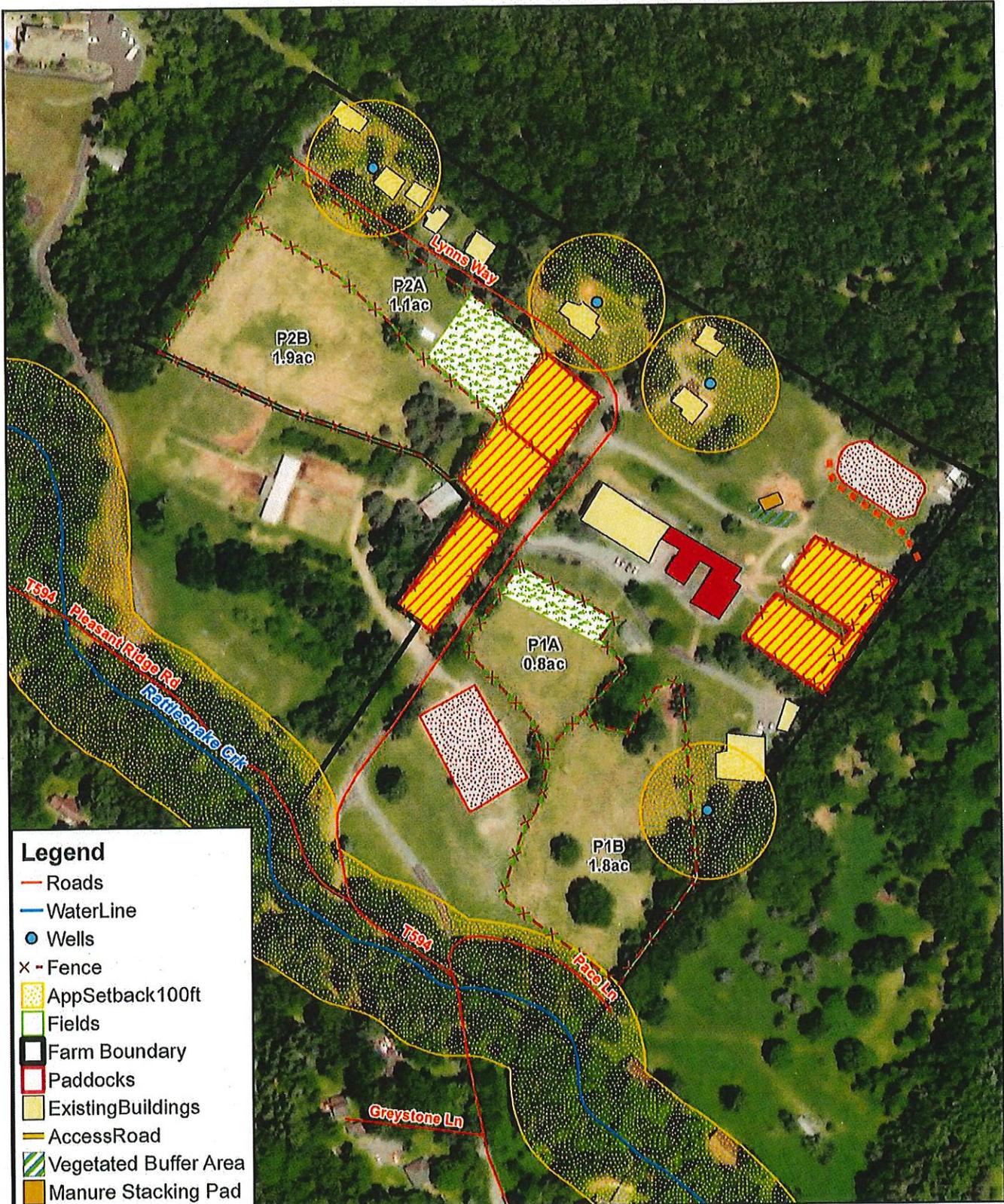
All manure collected on the operation is exported for agricultural use, or non-land application use, to know landowners. The majority of manure exported for land application for agricultural use, will be to Barry Malson, a known landowner. All manure exported for non-land use will go to Ross and Ross Nursery. Though not a significant part of the plan, the operation will export some manure to neighboring landowners who will use it to fertilize their gardens or other small parcels. No individual importer will receive more than 25 tons of manure during any calendar year. The operator recognizes the requirement to keep manure exporting records documenting who took manure, the date they took it, and how much they received. The operator also recognizes that they will be required to maintain these records at the operation for at least three years. Should an importer wish to import more than 25 tons of manure during any calendar year, the operator recognizes that a signed agreement and Nutrient Balance Sheet(s) to address this importer taking more than 25 tons in a

year's time, is required to be submitted prior to the manure being exported to the importer. See details in Appendix 8.

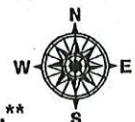
Operator Management Map

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.

Briana Yetter - Operations Map



- Legend**
- Roads
 - WaterLine
 - Wells
 - x - Fence
 - AppSetback 100ft
 - Fields
 - Farm Boundary
 - Paddocks
 - Existing Buildings
 - Access Road
 - ▨ Vegetated Buffer Area
 - Manure Stacking Pad



****Field verification of application setbacks and buffers is required prior to land application of manure.****

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:

<input checked="" type="checkbox"/>	Pennsylvania Act 38 of 2005	<input checked="" type="checkbox"/>	CAO	<input type="checkbox"/>	VAO (check one)
<input type="checkbox"/>	Pennsylvania CAFO (Concentrated Animal Feeding Operation) program				
<input type="checkbox"/>	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. Implementation includes adherence to manure and fertilizer application rates, timing, setbacks and conditions; Installation of listed BMPs within implementation timeframes; and record keeping obligations of the program.

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

<input type="checkbox"/>	1-Year Plan for Crop Year _____	(annual updates will be completed)
<input checked="" type="checkbox"/>	3-Year Plan for Crop Years .	2022 2023 2024

Records required to be maintained include the following:

- 1) Annual crop yields
- 2) Manure and fertilizer application rates, locations and date of application
- 3) Manure production figures for the various manure groups listed in your plan
- 4) Soil test reports (testing required every 3 years per crop management unit)
- 5) Manure test reports (testing required once a year for each manure group)
- 6) Number of animals on pasture, number of days on pasture, and hours per day on pasture
- 7) For operations exporting manure, Manure Export Sheets
- 8) BMP designs and certification for new liquid and semi-solid manure storage facilities

The following has been confirmed:

<input checked="" type="checkbox"/>	Verification of Ag E&S Plan	<input type="checkbox"/>	No Ag E&S Plan Required
<input checked="" type="checkbox"/>	Verification of Existing Site Specific Emergency Response Plan		

Verification that owners of rented/leased lands have been notified that a nutrient management plan has been developed which calls for manure to be applied to their lands and that they have no objections to the plan requirements.

<input type="checkbox"/>	Owners Notified	<input checked="" type="checkbox"/>	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, based on information provided by the operator; that this plan has been developed in accordance with the criteria established for the program(s) indicated above; and that I have presented the final complete plan to the operator and discussed the content and implementation of this plan with the operator, subject to the penalties of 18 Pa.C.S.A. § 4904, relating to unsworn falsification to authorities.

Specialist Signature

Mark Biondi

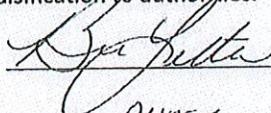
Date

11/17/20

Operator Signature

I understand and agree that I will implement the practices, procedures and record keeping obligations as outlined in this plan in order to protect water quality and address the nutrient needs of the crops associated with the operation. I agree that if I use a commercial hauler or broker for the application or export of manure, that only haulers or brokers that hold a valid certification issued by the Pa Department of Agriculture, under Act 49 of 2004, will be used. I affirm that all information provided in this nutrient management plan is true, accurate and complete to the best of my knowledge and belief, and reflects the current and planned activities of the operation; and that, if this plan was completed by a nutrient management specialist, I have reviewed the final completed plan and the specialist has discussed the content and implementation of this plan with me, subject to the penalties of 18 Pa.C.S.A. § 4904, relating to unsworn falsification to authorities.

Operator Signature



Operator Title

OWNER

Date

11/16/20

Appendix 2 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 (contributing animal groups, collection, storage and handling procedures); composting (including mortality) management.

Pleasant Ridge Farm, LLC, operated by Briana Yetter, is a horse boarding / riding facility in Monroe County, PA. The operation consists of 5.6 acres of pasture and an additional 13.5 acres of farmstead. The farm averages 22 mature riding horses. All crop land is kept in permanent pasture. An average of 11 horses have access to pastures year-round. Horses also have access to five paddocks at the farmstead. Each paddock is approximately 10,000 to 11,000 square feet in size. Hay is provided in the paddocks using horse hay feeders. All collected manure and waste hay are removed from the horse barn and paddocks daily and permanently stacked in a vegetated area north of the horse barn. Collected manure is exported to known importers for application on cropland, several small quantity importers, and also hauled to a landscaping business to be used as a compost base for topsoil. No manure is mechanically applied on this farm. Livestock mortalities are managed offsite.

County(s)

Monroe County / Barrett Township

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

Rattlesnake Creek – HQ-CWF

Notation of Special Protection Waters

Rattlesnake Creek – HQ-CWF

Operation Acres

Total Acres: 19.1

Total Acres Available for Nutrient Application Under Operator's Control

Owned: 5.6

Rented: 0

Names & Addresses of Owners of Rented or Leased Land and/or Facilities

None

Existing Manure Storages & Capacity

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. Briefly describe,

for each manure group, manure storage management during removal (degree of agitation, method of manure removal, extent the storage is emptied, type of unremoved manure, etc.) and manure sampling procedures.

This operation stacks manure on an area made of crushed stone north of the horse barn. Crushed stone is added to the area as needed to maintain stabilization. The manure stacking area is typically 25' x 35' x 4'. The stacking area holds approximately 2,840 cubic feet of manure with sawdust bedding. No collected runoff or wastewater is added to the stacking area. The stack is covered with a tarp during rain events to prevent surface water from entering the stack. In addition, surface water flowing from the stacking area during storm events flows through a permanent vegetative buffer area. Manure is added to the stacking area by being collected by hand from the horse barn and paddocks and taken to the stack by wheelbarrow or tractor. Manure is removed from the structure by hand or with a tractor and exported off the operation. The majority of manure is removed from the stack during each cleanout. A representative sample was taken directly from the manure stack.

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. If applicable, name and Act 49 certification number of custom applicator.

There is no mechanical application of manure on this operation.

Appendix 6
Manure Management

Date of Site Evaluation: October 14, 2020

Statement Documenting Areas Evaluated During Site Evaluation

List and clearly identify each of the specific areas evaluated.

All paddocks, pastures, the horse barn and surrounding area, the riding rings, and the manure stacking area, were evaluated during the site visit.

Identification of Inadequate Manure Management Practices and Conditions

List of each specific inadequate manure management practice or condition identified.

No inadequate manure management practices or conditions were observed at the time of the evaluation.

BMPs to Address Manure Management Problem Areas

List of specific BMPs (including PA Technical Guide standard name and number) and management changes that will be implemented to address each of the inadequate practices listed above.

While the paddocks and pastures were in good condition, the operator explained that after the winter months parts of both may have become muddy, and that reseeding is necessary and done annually to maintain proper vegetation during the grazing season. Recommend BMP (512) forage and biomass planting as necessary annually to maintain proper vegetation in all pastures. Maintain the area of buffer vegetation on the south side of the manure stacking area.

Appendix 7
Stormwater Control

Date of Site Evaluation: October 14, 2020

Statement Documenting Areas Evaluated During Site Evaluation

List and clearly identify each of the specific areas evaluated.

All paddocks, pastures, the horse barn and surrounding area, the riding rings, and the manure stacking area, were evaluated during the site visit.

Identification of Critical Runoff Problem Areas

List of each specific critical runoff problem area identified.

No critical runoff problem areas were observed at the time of the evaluation.

BMPs to Address Critical Runoff Problem Areas

List of BMPs (including PA Technical Guide standard name and number) and specific management changes that will be implemented to address each of the critical runoff problem areas listed above.

Maintain the diversion below the top riding ring to keep surface run off away from the paddock area.

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 Used For Other Than Agricultural Land Application**

Developed consistent with the PA Nutrient and Odor Management Act Program

- 1) This agreement is entered into on August 11, 2014, by Pleasant Ridge Farm, LLC – Briana Yetter (the “exporter”) who will supply manure, and Ross & Ross Nursery – Wayne Ross (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 (county, twp, and address): Monroe County / Barrett Township
122 Barn Swallow Lane, Cresco, PA 18326
- 4) The exporter will, as the supply of manure allows, provide the following amounts of manure during the seasons outlined below:
Tons or gallons (circle one) of manure, per season: up to 100 tons annually in the spring of the year depending on amounts available.
Spring 100 tons Summer 0 tons Fall 0 tons Winter 0 tons
- 5) The importer’s location and other relevant information as it relates to this manure export, is as follows:
 - a) **Phone number:** 570-595-9760
 - b) **County(s):** Monroe
 - c) **Address:** 1248 Bush Road, Cresco, PA 18326
 - d) **Owner of the property receiving manure:** Wayne T. Ross
 - e) **Proposed usage of the imported manure:** Exported manure will be used as a compost base for landscaping topsoil
- 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) 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 greater than 120 days unless covered or otherwise protected (15 days if the manure is stacked in fields under the management control of a CAFO).
- 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] (signature)
BRIANA YETTER (name)
8/11/14 (date)

Importer Signature, Name and Date
[Signature] (signature)
WAYNE T. ROSS (name)
8/11/14 (date)
(ROSS & ROSS NURSERY)

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 October 20, 2018, by Pleasant Ridge Farm, LLC (the "exporter") who will supply manure, and Barry Malsom (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 (county, twp, and address): Monroe County, Barrett Township
122 Barn Swallow Lane, Cresco, PA 18326
- 4) The exporter will, as the supply of manure allows, provide the following amounts of manure during the seasons outlined below:

Tons of Horse manure, per season:

Spring up to 60 tons & Fall up to 60 tons

Gallons of N/A manure, per season:

Spring 0 gallons or Summer 0 gallons or Fall 0 gallons or Winter 0 gallons

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

Tons of Horse manure: up to a total of 120 tons per year

Gallons of N/A manure: 0 gallons

If multi-species are planned, please add additional lines:

- 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:** 570-689-2947
 - b) **County(s):** Wayne County
 - c) **Address:** 443 Spring Hill Road, Moscow, PA 18444
 - d) **Township(s):** Sterling Township
 - d) **Owner(s) of the property receiving manure:** Barry Malsom, George Schmitt, Brent McClelland, Philip Barnhart
 - e) **Total cropland acres managed by the importer:** 47.6 acres
 - f) **Number and type of animals raised by the importer:** None
 - g) **Number of acres available for this imported manure:** 47.6 acres
 - 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.) 298 tons of imported horse manure
 - **If other manure is generated, imported and/or utilized, is it applied to the same acres as indicated in item "g" above (relating to "acres available"):** Yes

- **If other manure is generated, imported and/or utilized, is it applied during the same season as the imported manure: 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) A manure export informational packet (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.
 The manure export informational packet must include the following:
 - i. Exported Manure Informational Packet Guidance Sheet
 - ii. Nutrient Management Planning an Overview (Agronomy Facts 60)
 - iii. Manure Management for Environmental Protection
 - iv. Land Application of Manure- A supplement to the Manure Management Manual Plan Guidance
 - v. Manure Export Sheet
 - vi. Manure Transfer Summary Sheets
 - vii. Manure Field Stacking Requirements Fact Sheet
 - 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 .
 - 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

and be submitted to the conservation district or State Conservation Commission (and the exporter is a CAFO) prior to implementing the changes.

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

Brian Yuter (signature)
BRIANA YUTER (name)
9-25-18 (date)

Importer Signature, Name and Date

Barry McPherson
Barry McPherson (name)
10/2/18 (date)

Nutrient Balance Sheet

Prepared for

Barry Malson
443 Spring Hill Road
Moscow, PA 18444
(570) 689-2947
Wayne

Prepared by

Nick Blondi
#2278-NMC
120 Lake Street
Ephrata, Pa 17522
(717) 721-6795



Nutrient Management Specialist or Broker 2 Signature

Date of Development

November 17, 2020

This nutrient balance sheet has been developed for manure exported for agricultural land application under the following Act 38 export option:

- Exported to a known operation (Included In Exporter NMP)
- Exported through a broker (Include Broker information below if not prepared by a broker)

Broker Information

Exporter Information

Pleasant Rdge Farm, LLC - Briana Yetter
122 Barn Swallow Lane
Cresco, PA 18326
(570) 856-4977
Monroe



Nutrient Balance Sheet Summary

Importing Farm: Barry Malsom

Whole Farm Note:

Fall manure applications require at least 25% cover unless the crop management unit is planted to a cover crop in time to allow for appropriate growth to control runoff until the next growing season, or the manure is injected or mechanically incorporated within 5 days using minimal soil disturbance techniques consistent with no-till farming practices.

Crop Group	Fields	Acres	Crop	Manure Group	Application Season	Application Management	Multiple Designation	Planned Manure Rate ¹	Starter/Other Fertilizer (lb/A)			Supplemental Fertilizer (lb/A)			Nutrient Balance (lb/A) ²		
									N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O
Grass Hay Fall	Aimort, BM1, BM2, BM3, BM4, Hill, Home	47.6	Established Mixed Grasses	Horse Bedded pack Fall	Early Fall	Early Fall: Summer utilization with no cover crop: All methods of incorporation		8.5 Tons/A							195	3	205
Grass Hay Spring	Aimort, BM1, BM2, BM3, BM4, Hill, Home	47.6	Established Mixed Grasses	Horse Bedded pack Spring	Spring	Spring: Spring or summer utilization-Incorporation after 7 days or none		8.5 Tons/A							195	3	205

¹ See Nutrient Management Plan Summary Notes

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

³ Multiple Designation Mi=Initial, M=Middle(s), Mf=Final

NBS Summary Notes

Importing Farm: Barry Malsom

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Crop Group	Fields	Crop	Manure Group	Nutrient Balance Notes	Notes
Grass Hay Fall	Airport, BM1, BM2, BM3, BM4, Hill, Home	Established Mixed Grasses	Horse Bedded pack Fall	Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs	Do not apply imported horse manure within 100 feet of water wells or 150 feet of surface water. Imported horse manure may only be applied at the planned rate per acre once per crop year. Do not apply other manures to the same fields as imported horse manure in the same crop year. Fields must have 25% cover from a growing crop, crop residue or cover crop at the time of fall horse manure application.
Grass Hay Spring	Airport, BM1, BM2, BM3, BM4, Hill, Home	Established Mixed Grasses	Horse Bedded pack Spring	Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs	Do not apply imported horse manure within 100 feet of water wells or 150 feet of surface water. Imported horse manure may only be applied at the planned rate per acre once per crop year. Do not apply other manures to the same fields as imported horse manure in the same crop year.

Manure Group Information

Appendix 3 Manure Group Information	Horse Bedded pack Fall	Horse Bedded pack Spring
Manure Report Date (note if averaging several reports)	October 30, 2020	October 30, 2020
Laboratory Name	PSU AASL	PSU AASL
Manure Type	Other	Other
Manure Unit (lbs/ton or 1000 gal)	lb/ton	lb/ton
Total Nitrogen (N) (lbs/ton or 1000 gal)	11.60	11.60
Ammonium N (NH ₄ -N) (lbs/ton or 1000 gal)	0.02	0.02
Total Organic N (lbs/ton or 1000 gal)	11.58	11.58
Total Phosphate (P ₂ O ₅) (lbs/ton or 1000 gal)	8.46	8.46
Total Potash (K ₂ O) (lbs/ton or 1000 gal)	5.35	5.35
Percent Solids	33.10	33.10
PSC Value (analytical or book value)	0.80	0.80

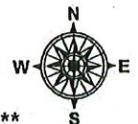
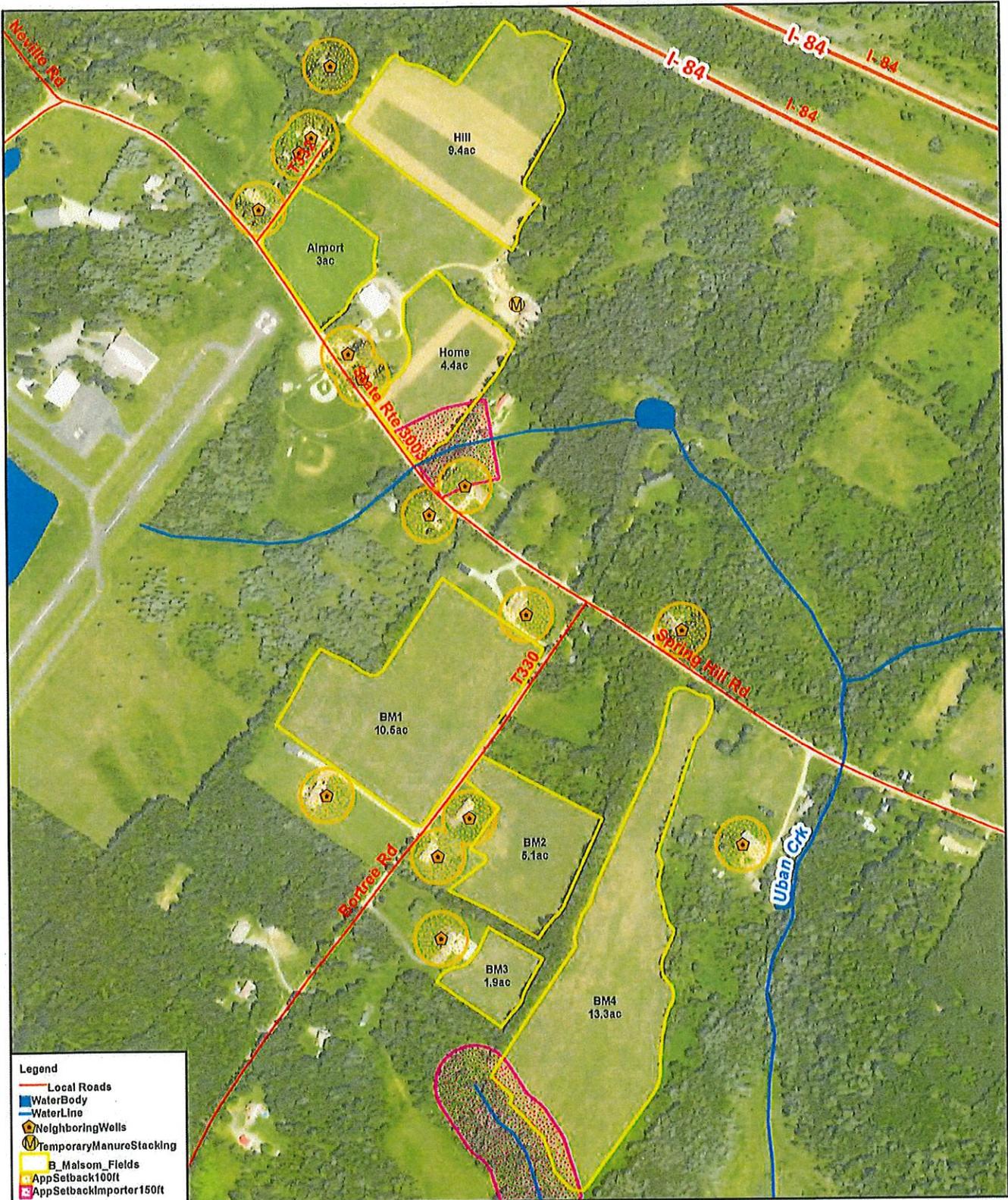
Option 1 P Removal Option 2 Nitrogen Based Nutrient Balance Sheets	Grass Hay Fall	Grass Hay Spring
Crop Group Identification	Airport, BM1, BM2, BM3, BM4, Hill, Home	Airport, BM1, BM2, BM3, BM4, Hill, Home
Fields		
Acres	47.6	47.6
NBS Option	Option 1 P Removal	Option 1 P Removal
Mehlich 3 Soil Test P For Option 2 enter maximum Soil Test For Option 3 enter soil test for PI	ppm P	ppm P
P Index Part A Evaluation		
Part A Result		
Crop	Established Mixed Grasses	Established Mixed Grasses
Planned Yield	5 ton/A	5 ton/A
Crop Removal Recommendations (lb/A)	N P2O5 K2O 250 75 250	N P2O5 K2O 250 75 250
Soil Test Recommendation (lb/A) Other Nutrients Applied (lb/A) (Nutrients applied regardless of manure)		
P Index Application Method		
Double Crop Carry Over N (lb/A)	0	0
Manure History Description Residual Manure N (lb/A)	35	35
Legume History Description Residual Legume N (lb/A)	0	0
Net Nutrients Required (lb/A)	215 75 250	215 75 250
Manure Group	Horse Bedded pack Fall	Horse Bedded pack Spring
Units	lb/ton	lb/ton
Manure Nutrient Content (lbs/ton or 1000 gal)	N P2O5 K2O 11.60 8.46 5.35	N P2O5 K2O 11.60 8.46 5.35
Application Season: Management (Incorporation, cover crops, etc.)	Early Fall: Summer utilization with no cover crop; All methods of incorporation	Spring: Spring or summer utilization- incorporation after 7 days or none
Availability Factors (Total N or NH4-N & Organic N)	Total N NH4-N Org. N 0.20	Total N NH4-N Org. N 0.20
P Index Application Method		
N Balanced Manure Rate (ton; gal/A)	93 tons/A	93 tons/A
P Removal Balance Manure Rate (ton or gal/A; If required by P Index)	9 tons/A	9 tons/A
P Index Value	Crop P Removal (lb/A) 75.0	Crop P Removal (lb/A) 75.0
Planned Manure Rate (ton or gal/A)	8.5 tons/A	8.5 tons/A
Nutrients Applied at Planned Manure Rate (lb/A)	20 72 45	20 72 45
Nutrient Balance after Manure	195 3 205	195 3 205
Supplemental Fertilizer (lb/A)	0 0 0	0 0 0
P Index Application Method		
Final Nutrient Balance (lb/A)	195 3 205	195 3 205
Multiple Application		
Soil test or Crop Removal	Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs	Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs

Appendix 1

Operation Maps

Maps (or aerial photographs) required in Nutrient Balance Sheets must identify: road and road names adjacent to and within the operation; field identification, boundaries and acreage; manure application setback areas and vegetated buffers and associated landscape features (streams and other water bodies, sinkholes, and active water wells or springs); and location of in-field manure stacking areas (including each site in stacking area rotation).

Barry Malsom NBS Map

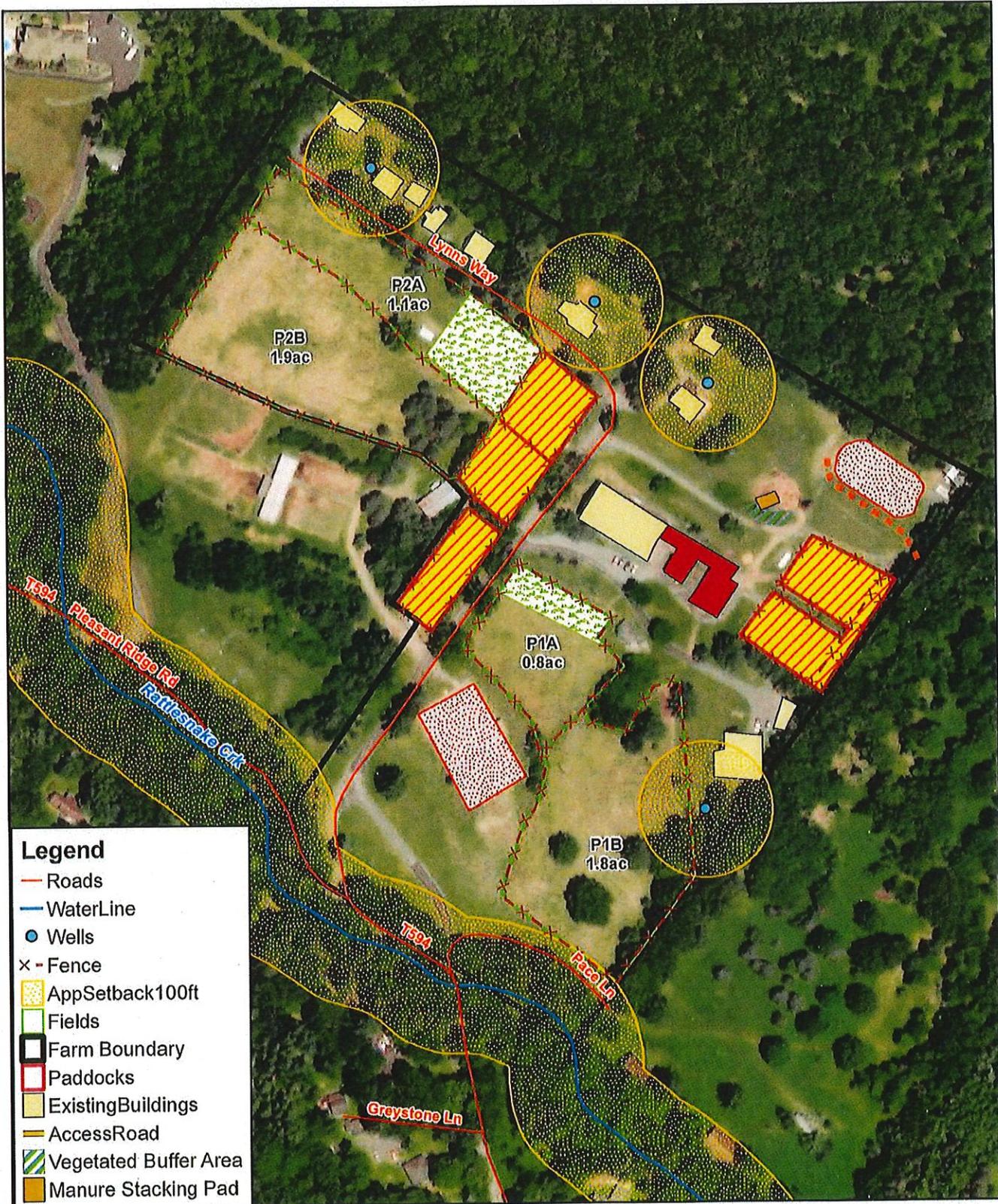


Field verification of application setbacks and buffers is required prior to land application of manure.

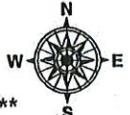
Appendix 9 Operation Maps

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 the field identification and boundaries, soil types and slopes with soil 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.

Briana Yetter - Operations Map

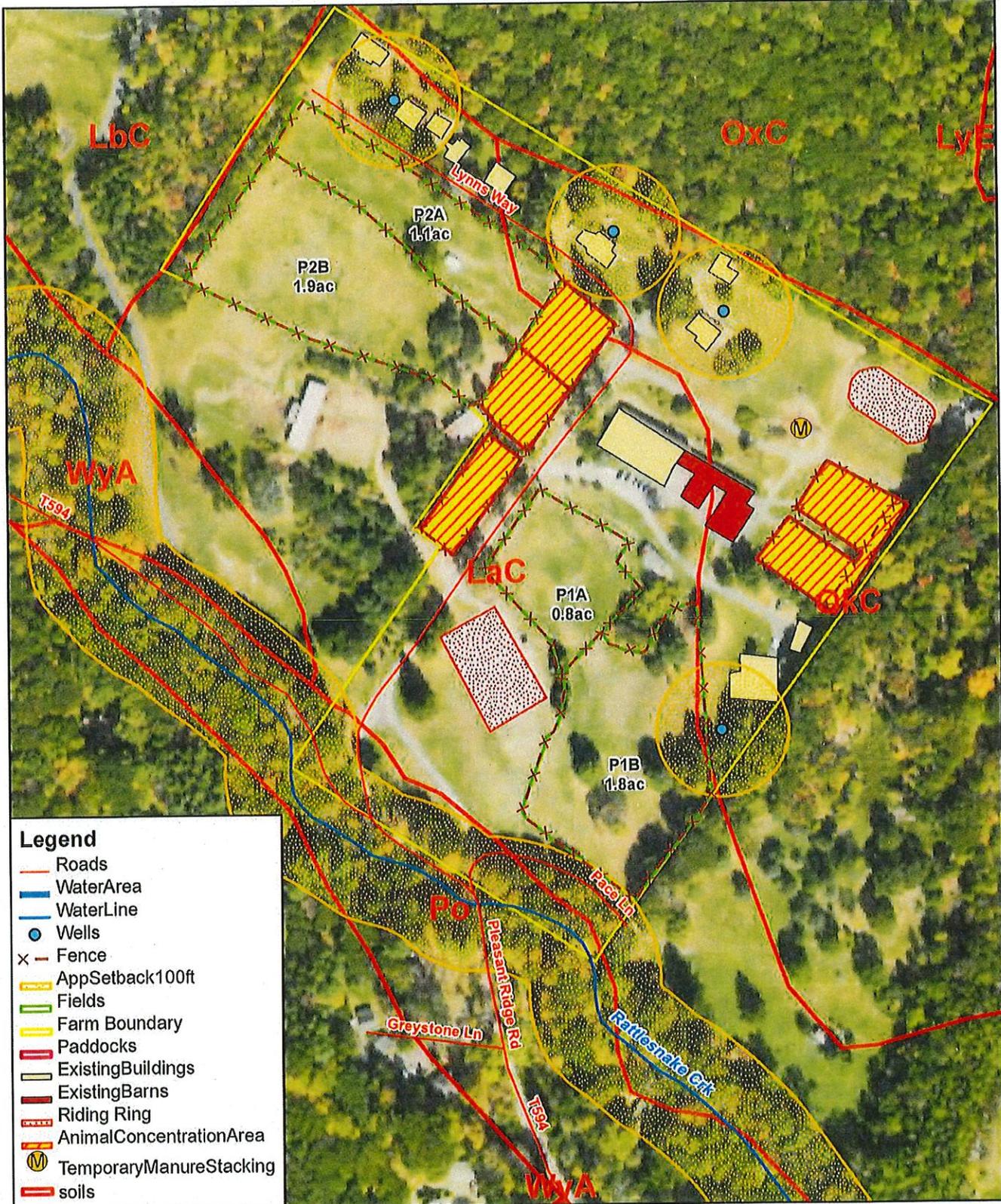


- Legend**
- Roads
 - WaterLine
 - Wells
 - × - Fence
 - AppSetback100ft
 - Fields
 - Farm Boundary
 - Paddocks
 - ExistingBuildings
 - AccessRoad
 - Vegetated Buffer Area
 - Manure Stacking Pad

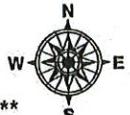


Field verification of application setbacks and buffers is required prior to land application of manure.

Pleasant Ridge Farm LLC - Soil Map



- Legend**
- Roads
 - WaterArea
 - WaterLine
 - Wells
 - × Fence
 - AppSetback100ft
 - Fields
 - Farm Boundary
 - Paddocks
 - ExistingBuildings
 - ExistingBarns
 - Riding Ring
 - AnimalConcentrationArea
 - Ⓜ TemporaryManureStacking
 - soils



Field verification of application setbacks and buffers is required prior to land application of manure.

Map Unit Description (Brief, Generated)

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions in this report, along with the maps, provide information on the composition of map units and properties of their components.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

The Map Unit Description (Brief, Generated) report displays a generated description of the major soils that occur in a map unit. Descriptions of non-soil (miscellaneous areas) and minor map unit components are not included. This description is generated from the underlying soil attribute data.

Additional information about the map units described in this report is available in other Soil Data Mart reports, which give properties of the soils and the limitations, capabilities, and potentials for many uses. Also, the narratives that accompany the Soil Data Mart reports define some of the properties included in the map unit descriptions.

Report—Map Unit Description (Brief, Generated)

Monroe County, Pennsylvania

Map Unit: LaC—Lackawanna channery loam, 8 to 15 percent slopes

Component: Lackawanna (85%)

The Lackawanna component makes up 85 percent of the map unit. Slopes are 8 to 15 percent. This component is on hills on uplands. The parent material consists of loamy till derived mainly from reddish sandstone, siltstone, and shale. Depth to a root restrictive layer, fragipan, is 17 to 36 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is low. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 25 inches during January, February, March, November, December. Organic matter content in the surface horizon is about 5 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria.

Component: Wellsboro (10%)

Generated brief soil descriptions are created for major soil components. The Wellsboro soil is a minor component.

Component: Oquaga (3%)

Generated brief soil descriptions are created for major soil components. The Oquaga soil is a minor component.

Component: Morris (2%)

Generated brief soil descriptions are created for major soil components. The Morris soil is a minor component.

Map Unit: LbC—Lackawanna channery loam, 8 to 25 percent slopes, rubbly**Component: Lackawanna, rubbly (90%)**

The Lackawanna, rubbly component makes up 90 percent of the map unit. Slopes are 8 to 25 percent. This component is on hills on uplands. The parent material consists of loamy till derived mainly from reddish sandstone, siltstone, and shale. Depth to a root restrictive layer, fragipan, is 17 to 36 inches (depth from the mineral surface is 17 to 33 inches). The natural drainage class is well drained. Water movement in the most restrictive layer is low. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 25 inches (depth from the mineral surface is 24 inches) during January, February, March, November, December. Organic matter content in the surface horizon is about 80 percent. Below this thin organic horizon the organic matter content is about 10 percent. Nonirrigated land capability classification is 7s. This soil does not meet hydric criteria.

Component: Wellsboro, rubbly (10%)

Generated brief soil descriptions are created for major soil components. The Wellsboro, rubbly soil is a minor component.

Map Unit: OkC—Oquaga-Lackawanna channery loams, 8 to 15 percent slopes**Component: Oquaga (55%)**

The Oquaga component makes up 55 percent of the map unit. Slopes are 8 to 15 percent. This component is on hills on glaciated uplands. The parent material consists of reddish loamy till derived from sandstone, siltstone, and shale. Depth to a root restrictive layer, bedrock, lithic, is 20 to 40 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 5 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria.

Component: Lackawanna (30%)

The Lackawanna component makes up 30 percent of the map unit. Slopes are 8 to 15 percent. This component is on hills on uplands. The parent material consists of loamy till derived mainly from reddish sandstone, siltstone, and shale. Depth to a root restrictive layer, fragipan, is 17 to 36 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is low. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 25 inches during January, February, March, November, December. Organic matter content in the surface horizon is about 5 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria.

Component: Wellsboro (10%)

Generated brief soil descriptions are created for major soil components. The Wellsboro soil is a minor component.

Component: Arnot (5%)

Generated brief soil descriptions are created for major soil components. The Arnot soil is a minor component.

Map Unit: OxC—Oquaga-Lackawanna complex, 8 to 25 percent slopes, extremely stony

Component: Oquaga, extremely stony (60%)

The Oquaga, extremely stony component makes up 60 percent of the map unit. Slopes are 8 to 25 percent. This component is on hills on glaciated uplands. The parent material consists of reddish loamy till derived from sandstone and shale. Depth to a root restrictive layer, bedrock, lithic, is 20 to 40 inches (depth from the mineral surface is 20 to 38 inches). The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 80 percent. Below this thin organic horizon the organic matter content is about 15 percent. Nonirrigated land capability classification is 7s. This soil does not meet hydric criteria.

Component: Lackawanna, extremely stony (30%)

The Lackawanna, extremely stony component makes up 30 percent of the map unit. Slopes are 8 to 25 percent. This component is on hills on uplands. The parent material consists of loamy till derived mainly from reddish sandstone, siltstone, and shale. Depth to a root restrictive layer, fragipan, is 17 to 36 inches (depth from the mineral surface is 17 to 33 inches). The natural drainage class is well drained. Water movement in the most restrictive layer is low. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 25 inches (depth from the mineral surface is 24 inches) during January, February, March, November, December. Organic matter content in the surface horizon is about 80 percent. Below this thin organic horizon the organic matter content is about 10 percent. Nonirrigated land capability classification is 7s. This soil does not meet hydric criteria.

Component: Wellsboro, extremely stony (5%)

Generated brief soil descriptions are created for major soil components. The Wellsboro, extremely stony soil is a minor component.

Component: Arnot, extremely stony (5%)

Generated brief soil descriptions are created for major soil components. The Arnot, extremely stony soil is a minor component.

Map Unit: Po—Pope silt loam

Component: Pope (90%)

The Pope component makes up 90 percent of the map unit. Slopes are 0 to 3 percent. This component is on flood plains. The parent material consists of coarse-loamy alluvium derived from sandstone and siltstone. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is occasionally flooded. It is not ponded. A seasonal zone of water saturation is at 60 inches during February, March. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 1. This soil does not meet hydric criteria.

Component: Holly (8%)

Generated brief soil descriptions are created for major soil components. The Holly soil is a minor component.

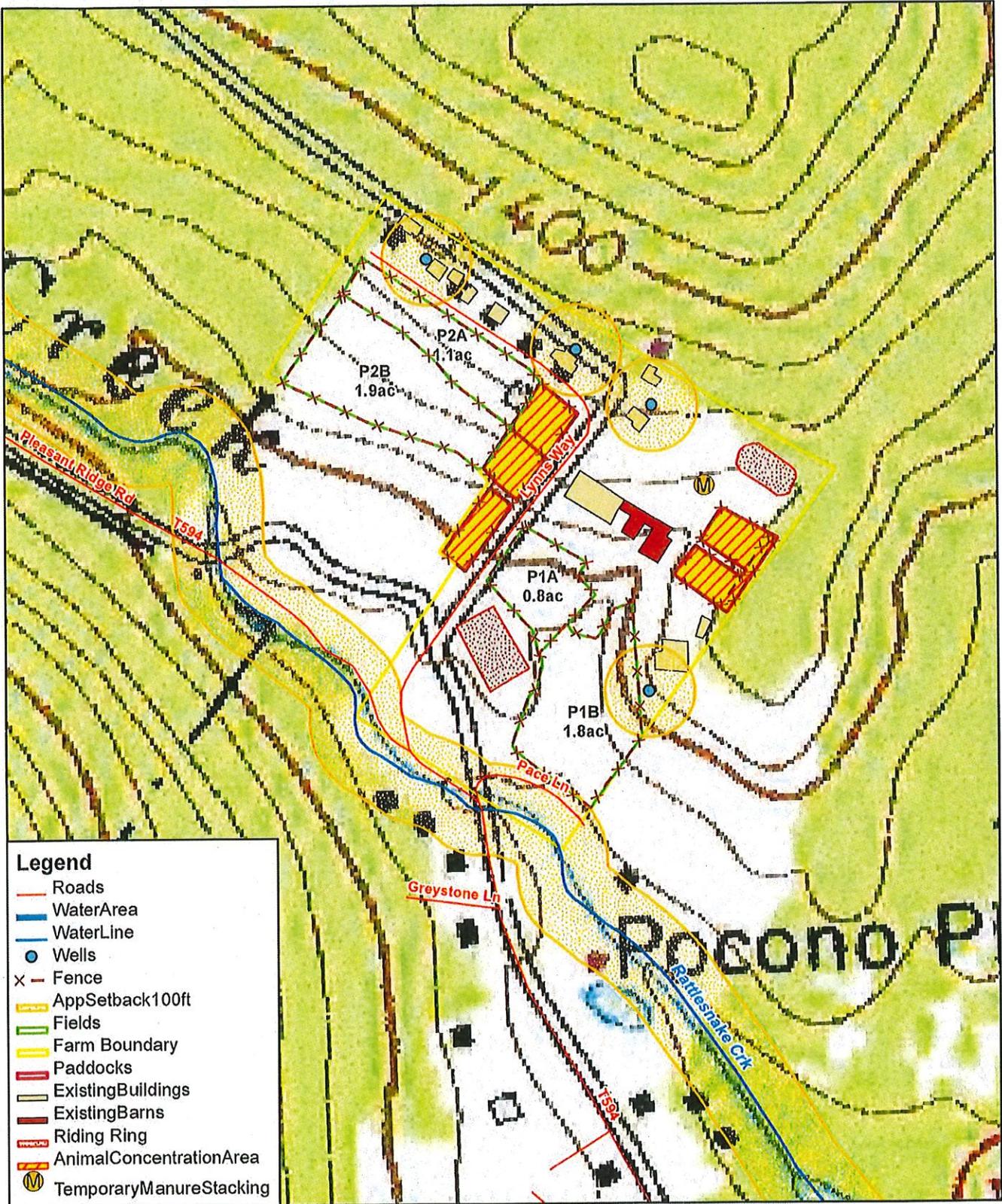
Component: Philo (2%)

Generated brief soil descriptions are created for major soil components. The Philo soil is a minor component.

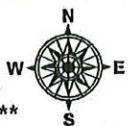
Data Source Information

Soil Survey Area: Monroe County, Pennsylvania
Survey Area Data: Version 13, Sep 18, 2018

Pleasant Ridge Farm LLC - Topography Map



- Legend**
- Roads
 - WaterArea
 - WaterLine
 - Wells
 - Fence
 - AppSetback 100ft
 - Fields
 - Farm Boundary
 - Paddocks
 - Existing Buildings
 - Existing Barns
 - Riding Ring
 - Animal Concentration Area
 - Temporary Manure Stacking



Field verification of application setbacks and buffers is required prior to land application of manure.

Appendix 10

Supporting Information & Documentation

Crop Years 2024

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.

Manure Analysis 5 Year Running Average						
Manure Average for Crop Years. 2023	Bedded pack					
	Average	1 year ago	2 years ago	3 years ago	4 years ago	5 years ago
Manure Report Date	Oct 30 2020	Oct 30 2020				
Laboratory Name	PSU AASL	PSU AASL				
Manure Type	Other	Other				
Manure Unit (lbs/ton or 1000 gal)	lb/ton	lb/ton				
Total Nitrogen (N) (lbs/ton or 1000 gal)	11.60	11.60				
Ammonium N (NH ₄ -N) (lbs/ton or 1000 gal)	0.02	0.02				
Total Organic N (lbs/ton or 1000 gal)	11.58	11.58				
Total Phosphate (P ₂ O ₅) (lbs/ton or 1000 gal)	8.46	8.46				
Total Potash (K ₂ O) (lbs/ton or 1000 gal)	5.35	5.35				
Percent Solids	33.10	33.10				
PSC Value (Enter analytical or book value)	0.80	0.80				

Manure Average for Crop Years. 2023	Field P1A - Grazing Calculator					
	Average	1 year ago	2 years ago	3 years ago	4 years ago	5 years ago
Manure Report Date	Uncollected Book	Uncollected Book				
Laboratory Name	PSU Agronomy Guide	PSU Agronomy Guide				
Manure Type	Other	Other				
Manure Unit (lbs/ton or 1000 gal)	lb/ton	lb/ton				
Total Nitrogen (N) (lbs/ton or 1000 gal)	12.00	12.00				
Ammonium N (NH ₄ -N) (lbs/ton or 1000 gal)						
Total Organic N (lbs/ton or 1000 gal)	12.00	12.00				
Total Phosphate (P ₂ O ₅) (lbs/ton or 1000 gal)	5.00	5.00				
Total Potash (K ₂ O) (lbs/ton or 1000 gal)	9.00	9.00				
Percent Solids						
PSC Value (Enter analytical or book value)	0.80	0.80				

Manure Analysis 5 Year Running Average

Manure Average for Crop Years. 2023	Field P1B - Grazing Calculator					
	Average	1 year ago	2 years ago	3 years ago	4 years ago	5 years ago
Manure Report Date	Uncollected Book	Uncollected Book				
Laboratory Name	PSU Agronomy Guide	PSU Agronomy Guide				
Manure Type	Other	Other				
Manure Unit (lbs/ton or 1000 gal)	lb/ton	lb/ton				
Total Nitrogen (N) (lbs/ton or 1000 gal)	12.00	12.00				
Ammonium N (NH ₄ -N) (lbs/ton or 1000 gal)						
Total Organic N (lbs/ton or 1000 gal)	12.00	12.00				
Total Phosphate (P ₂ O ₅) (lbs/ton or 1000 gal)	5.00	5.00				
Total Potash (K ₂ O) (lbs/ton or 1000 gal)	9.00	9.00				
Percent Solids						
PSC Value (Enter analytical or book value)	0.80	0.80				

Manure Average for Crop Years. 2023	Field P2A - Grazing Calculator					
	Average	1 year ago	2 years ago	3 years ago	4 years ago	5 years ago
Manure Report Date	Uncollected Book	Uncollected Book				
Laboratory Name	PSU Agronomy Guide	PSU Agronomy Guide				
Manure Type	Other	Other				
Manure Unit (lbs/ton or 1000 gal)	lb/ton	lb/ton				
Total Nitrogen (N) (lbs/ton or 1000 gal)	12.00	12.00				
Ammonium N (NH ₄ -N) (lbs/ton or 1000 gal)						
Total Organic N (lbs/ton or 1000 gal)	12.00	12.00				
Total Phosphate (P ₂ O ₅) (lbs/ton or 1000 gal)	5.00	5.00				
Total Potash (K ₂ O) (lbs/ton or 1000 gal)	9.00	9.00				
Percent Solids						
PSC Value (Enter analytical or book value)	0.80	0.80				

Manure Analysis 5 Year Running Average

Manure Average for Crop Years, 2023	Field P2B - Grazing Calculator					
	Average	1 year ago	2 years ago	3 years ago	4 years ago	5 years ago
Manure Report Date	Uncollected Book	Uncollected Book				
Laboratory Name	PSU Agronomy Guide	PSU Agronomy Guide				
Manure Type	Other	Other				
Manure Unit (lbs/ton or 1000 gal)	lb/ton	lb/ton				
Total Nitrogen (N) (lbs/ton or 1000 gal)	12.00	12.00				
Ammonium N (NH ₄ -N) (lbs/ton or 1000 gal)						
Total Organic N (lbs/ton or 1000 gal)	12.00	12.00				
Total Phosphate (P ₂ O ₅) (lbs/ton or 1000 gal)	5.00	5.00				
Total Potash (K ₂ O) (lbs/ton or 1000 gal)	9.00	9.00				
Percent Solids						
PSC Value (Enter analytical or book value)	0.80	0.80				

Summary of Total Uncollected Manure Deposited by Animal Groups

Animal Groups	Total sum of days on pasture	Total Tons Uncollected manure allocated per animal group in the Grazing Group Manure Calculator	Total Tons Uncollected manure generated per animal group
Riding horses - Uncollected	1460.0	60.73	60.73



**COMMONWEALTH OF PENNSYLVANIA
STATE CONSERVATION COMMISSION**

DATE: February 23, 2021

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

FROM: Brady Seeley, Conservation Program Specialist
State Conservation Commission

SUBJECT: Nutrient Management Plan Review and Requested Action
Duane Basset – Gravel Bar Farm, Northumberland County, Pennsylvania

Action Requested

Action is requested on the Duane Basset – Gravel Bar Farm Nutrient Management Plan for their Concentrated Animal Operation (CAO) located in Northumberland 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 February 23, 2021. As of that date, the plan was considered to be in its final form. The operation, located in Northumberland County, is considered to be a Concentrated Animal Operation (CAO) under the PA Nutrient and Odor Management Act (Act 38 of 2005). The Commission is the proper authority to take action on this plan, because Northumberland County Conservation District is not a delegated to perform plan review and action responsibilities under the Act 38 program.

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

Duane Bassett is an existing broiler animal operation in Northumberland County. Mr. Bassett's operation consists of a total of 74.6 acres with 21.8 acres of pasture, 44.5 acres of cropland and 6.3 farmstead and associated agricultural land. Anticipated crop rotation is grass hay with 1 year of corn silage. Animals raised on the operation are 56,000 mixed color broilers, 12 beef cows, 12 beef calves, 4 steers, 12 ewes, 18 lambs, 1 ram, 1 mature horse, 3 mature ponies, and 15 feeder pigs. Shavings is used as animal bedding. Total animal equivalent units (AEUs) housed at Mr. Bassett's operation is 176.53 AEUs. With 68.3 acres available for manure application, Mr. Bassett's animal density calculation works out to 2.58 AEUs / acre, classifying the operation as a Concentrated Animal Operation (CAO) under Act 38 of 2005.

Approximately 525 tons of poultry manure and 435 tons of mixed penpack manure is generated per year on the operation. The majority of the poultry manure is exported, up to 500 tons, and all mixed penpack manure is applied to own acres via mechanical manure application or grazing. Manure application rate to Mr. Bassett's fields are 1 or 2 tons/acre for the poultry manure and 8 tons/acre for the penpack manure. All manure from the poultry barns is removed between each flock of broilers. Poultry manure that is not field applied to Mr. Bassett's operation is exported directly to a known importer, Pine Hurst Acres, during the spring, summer, and fall. During the winter, manure is cleaned from the barns after a flock and temporarily stacked on the farmstead until conditions are suitable for manure application. All penpack manure is field applied and is temporarily stacked on the farmstead prior to field application. Small animal mortalities will be composted on site and mortality compost will be exported with the manure from the barns. Large animal mortalities are buried. The NMP does include the proper signed Exporter / Importer Agreement.

The receiving stream for the operation is Gravel Run, which is a Cold-Water Fishery.

There are no Best Management Practices listed to be implemented on Mr. Bassett's animal operation.

Based on my review, the NMP developed for Duane Bassett – Gravel Bar Farm's animal operation meets the requirements of the PA Act 38 Nutrient Management Regulations, and I therefore recommend Commission approval.

Nutrient Management Plan

For Crop Year(s)

2021

2022

2023

Prepared For

Operator's Name, Mailing Address, Telephone Number(s)

Duane Bassett, Gravel Bar Farm
48 Gravel Lane, Sunbury, PA 17801, 570-394-1719

Operation's Location Address (if different than above)

Farmstead 1: 48 Gravel Lane, Sunbury, PA 17801
Farmstead 2: 204-206 Wolverton Road, Sunbury, PA 17801

Site Name (CAFOs)

n/a

Prepared By

Nutrient Management Specialist's Name, Address, Telephone Number(s)

Lewis Frame – TeamAg Inc. 120 Lake Street, Ephrata, PA 17522,
717-721-6795, lewf@teamaginc.com

Nutrient Management Specialist's Program Certification Number

NMC - #2206

NON-FINAL FORM

Version 1

This NMP may be revised prior to a formal action by the Conservation District Board. The final form of the plan will be available at least 7 days prior to Board action. You may contact the Conservation District to determine the current status of the NMP

January 26, 2021
Month and Year

Administratively Complete Date

1/26/2021

Plan Approval Date

Plan Update Submission Date(s)

(updates to the approved plan not requiring board action)

NON-FINAL FORM

Version 2

This NMP may be revised prior to a formal action by the Conservation District Board. The final form of the plan will be available at least 7 days prior to Board action. You may contact the Conservation District to determine the current status of the NMP

February 23, 2021
Month and Year



FINAL FORM

This version of the plan will be considered for action by the Conservation District Board at their March 9, 2021 meeting

February 23, 2021
MONTH AND YEAR

Table of Contents

- Nutrient Management Plan Summary (Excel)
 - Nutrient Management Plan Summary Notes (Excel)
 - Manure Spreader Calibration Notes (Excel)
 - Additional Nutrient Management Plan Requirements (Word)
 - Operator Management Map (Mapping Program)
- Appendix 1: Nutrient Management Plan Agreement & Responsibilities (Word)
- Appendix 2: Operation Information (Word)
- Appendix 3: Manure Group Information (Excel)
- Appendix 4: Crop & Manure Management Information (Excel)
- Appendix 5: Phosphorus Index (Excel)
- Appendix 6: Manure Management (Word)
- Appendix 7: Stormwater Control (Word)
- Appendix 8: Importer/Broker Agreements & Nutrient Balance Sheets (Word & Excel)
- Appendix 9: Operation Maps (Mapping Program)
 - Topographic Map
 - Soils Map
- Appendix 10: Supporting Information & Documentation (Excel)
(List below the required documents included in the plan.)

Nutrient Management Plan Summary

Crop Year(s) 2021

Total acres reported in NMP Summary: 68.3
Whole Farm Note: Observe all setbacks to surface water and wells (100')

If manure runs out for any field, consult Appendix 4 of the plan for that field. The fertilizer required on any part of the field that does not receive manure can be determined from the 'Net Nutrients Required' for that field.

Full manure applications require at least 25% cover unless the crop management unit is planted to a cover crop in time to allow for appropriate growth to control runoff until the next growing season, or the manure is injected or mechanically incorporated within 5 days using minimal soil disturbance techniques consistent with no-till farming practices.

Operation Acres: 74.6 **Total Acres Available For Nutrient Application Under Operator's Control:** Owned: 44.5 **Rented:** 23.8

Animal Equivalent Units Per Acre: 2.58

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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		
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MP 1,2,5	15.2	Established Mixed Grasses	Broiler Manure	Spring	Spring: Spring or summer utilization- incorporation after 7 days or none	2 tons/A	148	0	0	0	0	0	-114	63	
MP 3	4.4	Established Mixed Grasses	Mixed Penpack	Spring	Spring: Spring or summer utilization- incorporation after 7 days or none	8 tons/A	134	0	0	0	0	0	-197	-154	
MP 4	2.2	Established Mixed Grasses	Broiler Manure	Spring	Spring: Spring or summer utilization- incorporation after 7 days or none	2 tons/A	148	0	0	0	0	0	-114	93	
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BB 1	1.2	Established Mixed Grasses	Broiler Manure	Spring	Spring: Spring or summer utilization- incorporation after 7 days or none	2 tons/A	148	0	0	0	0	0	-114	-37	

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PP4	1.1	Established Pasture (without legume)	Field PP4 - Grazing Calculator	Grazing	Grazing anytime with nutrient uptake during growing season	See Grazing Notes	0	0	0	19	0	0	0	-81	-201

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NMP Summary Notes

Crop Years 2021

CMU/Field ID	Notes
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MP 3	
MP 4	
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Manure Spreader Calibration Notes

Crop Years 2021

1

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8 Tons/Acre	Knight 1030	To be determined	Various	To be determined
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Nutrient Management Plan Summary

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Manure Spreader Calibration Notes

Crop Years 2023

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2 Tons/Acre	Knight 1030	To be determined	Various	To be determined
1 Tons/Acre	Knight 1030	To be determined	Various	To be determined

Additional Nutrient Management Plan Requirements

Manure Management and Stormwater BMP Implementation Summary

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

¹ If applicable, enter USDA-NRCS Practice Code. For other non-technical BMPs, leave blank.

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.

There are no plans to in field stack manure. Manure from the broiler houses is pushed out of the buildings where it is loaded for manure export and application. This loading area is marked on the farm map.

Additional CAFO Requirements

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

None

Proposed Manure Storage Description

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

No manure storages are proposed at this time

Description of Planned Alternative Manure Technology Practices

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

None

Exported Manure Summary

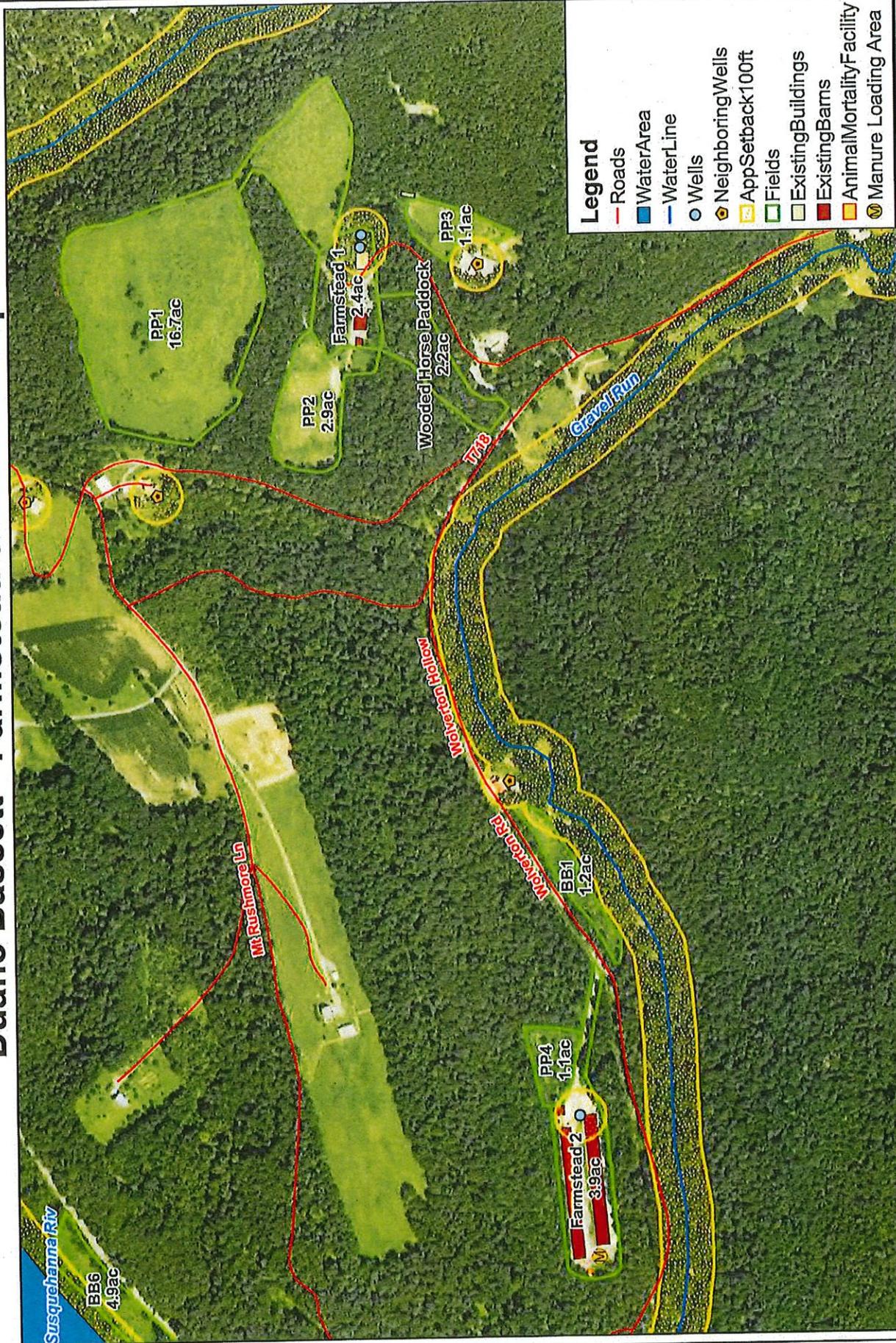
Summarize in a short paragraph the arrangements proposed for the manure to be exported from the operation. This information is described in more detail in Appendix 8 of this plan.

Excess manure is exported to a neighboring farm for land application. See appendix 8 for details

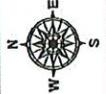
Operator Management Map

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.

Duane Bassett - Farmstead & Pasture Map



- Legend**
- Roads
 - WaterArea
 - WaterLine
 - Wells
 - NeighboringWells
 - AppSetback100ft
 - Fields
 - ExistingBuildings
 - ExistingBarns
 - AnimalMortalityFacility
 - Manure Loading Area



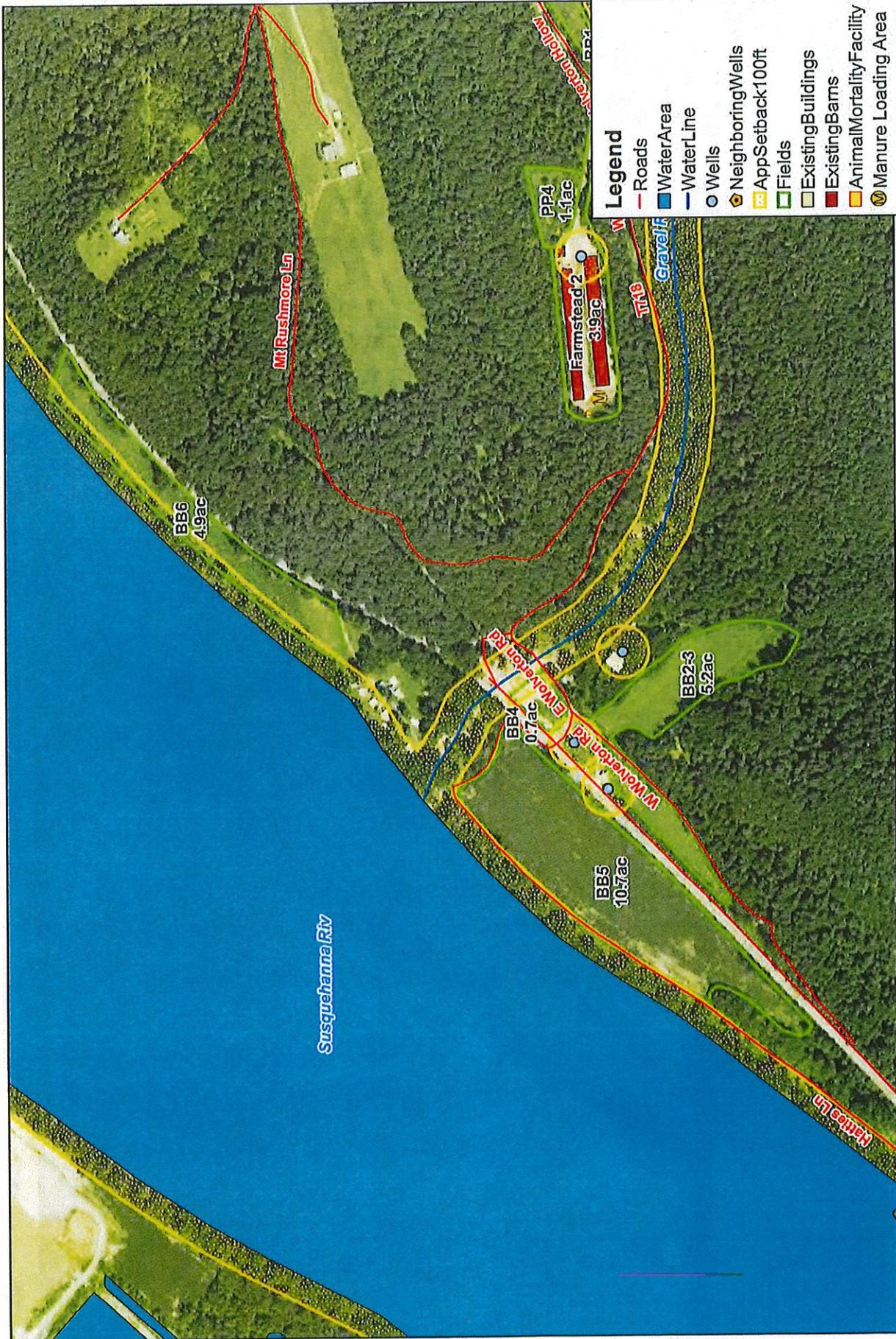
Application buffers/setbacks are approximate, field verification is required prior to land application

Duane Bassett - Farmstead 1 Map



** Application buffers/setbacks are approximate, field verification is required prior to land application**

Duane Bassett - BB Fields



Application buffers/setbacks are approximate, field verification is required prior to land application

Duane Bassett - MP & JP Fields



Application buffers/setbacks are approximate, field verification is required prior to land application



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:

<input checked="" type="checkbox"/>	Pennsylvania Act 38 of 2005	<input checked="" type="checkbox"/>	CAO	<input type="checkbox"/>	VAO (check one)
<input type="checkbox"/>	Pennsylvania CAFO (Concentrated Animal Feeding Operation) program				
<input type="checkbox"/>	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. Implementation includes adherence to manure and fertilizer application rates, timing, setbacks and conditions; installation of listed BMPs within implementation timeframes; and record keeping obligations of the program.

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

<input type="checkbox"/>	1-Year Plan for Crop Year _____	(annual updates will be completed)		
<input checked="" type="checkbox"/>	3-Year Plan for Crop Years	2021	2022	2023

Records required to be maintained include the following:

- 1) Annual crop yields
- 2) Manure and fertilizer application rates, locations and date of application
- 3) Manure production figures for the various manure groups listed in your plan
- 4) Soil test reports (testing required every 3 years per crop management unit)
- 5) Manure test reports (testing required once a year for each manure group)
- 6) Number of animals on pasture, number of days on pasture, and hours per day on pasture
- 7) For operations exporting manure, Manure Export Sheets
- 8) BMP designs and certification for new liquid and semi-solid manure storage facilities

The following has been confirmed:

<input checked="" type="checkbox"/>	Verification of Ag E&S Plan	<input type="checkbox"/>	No Ag E&S Plan Required
<input checked="" type="checkbox"/>	Verification of Existing Site Specific Emergency Response Plan		

Verification that owners of rented/leased lands have been notified that a nutrient management plan has been developed which calls for manure to be applied to their lands and that they have no objections to the plan requirements.

<input checked="" type="checkbox"/>	Owners Notified	<input type="checkbox"/>	No Rented/Leased Lands
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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, based on information provided by the operator; that this plan has been developed in accordance with the criteria established for the program(s) indicated above; and that I have presented the final complete plan to the operator and discussed the content and implementation of this plan with the operator, subject to the penalties of 18 Pa.C.S.A. § 4904, relating to unsworn falsification to authorities.

Specialist Signature

Louis R. Frame III

Date

9/24/2020

Operator Signature

I understand and agree that I will implement the practices, procedures and record keeping obligations as outlined in this plan in order to protect water quality and address the nutrient needs of the crops associated with the operation. I agree that if I use a commercial hauler or broker for the application or export of manure, that only haulers or brokers that hold a valid certification issued by the Pa Department of Agriculture, under Act 49 of 2004, will be used. I affirm that all information provided in this nutrient management plan is true, accurate and complete to the best of my knowledge and belief, and reflects the current and planned activities of the operation; and that, if this plan was completed by a nutrient management specialist, I have reviewed the final completed plan and the specialist has discussed the content and implementation of this plan with me, subject to the penalties of 18 Pa.C.S.A. § 4904, relating to unsworn falsification to authorities.

Operator Signature

Dan M. Pr...

Operator Title

Owner

Date

10/16/20

Appendix 2 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 (contributing animal groups, collection, storage and handling procedures); composting (including mortality) management.

This farm is operated as a livestock and crop farm in Northumberland County. Livestock on the operation consist of up to 56,000 Poultry Broilers between two poultry houses on Farmstead 2 and raise 4 flocks per year with a flock being in the barns for 10 weeks at a time, 12 beef cow calf pairs and up to 4 steers/replacement heifers, 12 Sheep Ewes with up to 18 lambs and 1 Ram, 3 mature ponies and 1 mature horse and 15 feeder pigs for a portion of the year. Cattle in the herd are primarily composed of Irish Dexter Beef Cattle with a small number of Jersey/Cross cows. Animal weights used in this nutrient management plan are shown as Jersey's as they are the breed most comparable in weight and size to the Irish Dexter's Cattle which reside on permanent pasture throughout the year. The horse and ponies reside in a barn on farmstead 1 for 12 hours per day in the fall & winter (Oct-Mar), and 24 hours per day in the spring-summer months (Apr-Sep) they are rotated between 2 of the farm's permanent pastures. There is also wooded area that the horses are moved to for on average 6 weeks through the summer months in order to allow for regrowth on the pastures, refer to appendix 6 for more information on this area. The farms sheep reside in a shed on farmstead 2 and have access to permanent pasture adjacent to farmstead 2 throughout the year. The feeder pigs are raised in the barn on farmstead 1. The cropland is all managed as primarily grass hay with corn that is occasionally rotated through. All crops are established using no-till methods. The pastures total 21.8 acres and the cropland consist of 44.5 acres and farmstead makes up 6.3 acres. The manure collected from barns for horses, sheep and pigs is cleaned out of the barn and stacked outside of the bank barn on farmstead 1 until being spread on the crop/hay fields. Manure from the broiler houses is cleaned out once per flock and is land applied to cropland or exported to a neighboring farm for land application. If conditions are not suitable for export/application poultry manure is temporarily stacked on farmstead 2. Manure production figures from the broiler houses were gathered from producer records. Exported manure is accounted for in the approved act 38 nutrient management plan for the manure importer. Mortalities from the broiler houses are processed in a mortality composting shed on the west side of the house and mortality compost is exported along with poultry manure, while larger animal mortalities are buried.

County(s)

Northumberland

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

Gravel Run (CWF), Unnamed Tributary of the Susquehanna River (CWF)

Notation of Special Protection Waters

None

Operation Acres

Total Acres: 74.6

Total Acres Available for Nutrient Application Under Operator's Control

Owned: 44.5

Rented: 23.8

Names & Addresses of Owners of Rented or Leased Land and/or Facilities

Michael Ploppert – 207 Ploppert Road, Sunbury, PA 17801 – 570-259-7714

Jason Ploppert – 3455 Sunbury Road, Sunbury, PA 17801 – 570-286-0489

Existing Manure Storages & Capacity

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. Briefly describe, for each manure group, manure storage management during removal (degree of agitation, method of manure removal, extent the storage is emptied, type of unremoved manure, etc.) and manure sampling procedures.

No existing manure storages.

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. If applicable, name and Act 49 certification number of custom applicator.

The operator utilizes a Knight 1030 dry manure spreader with a capacity of 300 bushels. Exact manure application rates have not been established for this spreader. Use agronomy facts 68 which is attached to this plan and consult with your TeamAg consultant on manure spreader calibration to establish rates listed in this plan.

Appendix 6

Manure Management

Date of Site Evaluation: 7/30/2020

Statement Documenting Areas Evaluated During Site Evaluation

List and clearly identify each of the specific areas evaluated.

The farmsteads, barns, broiler houses and mortality compost structure were evaluated during the site visit. There is also a 2.2 acre wooded area that is used for approximately 6 weeks out of the year to pasture the horses to allow for regrowth of PP2 & PP3.

Identification of Inadequate Manure Management Practices and Conditions

List of each specific inadequate manure management practice or condition identified.

No critical runoff problem areas were observed.

BMPs to Address Manure Management Problem Areas

List of specific BMPs (including PA Technical Guide standard name and number) and management changes that will be implemented to address each of the inadequate practices listed above.

For the Wooded Horse Paddock, ensure that dense vegetation is maintained on the forest floor throughout this area to prevent erosion and to treat any runoff generated from animal manure. Ensure that the horses do not exceed 8 weeks in this area in order to prevent the accumulation of manure. In the event that manure becomes accumulated, it should be removed and placed in the stacking area on farmstead 1 for later land application.

Appendix 7
Stormwater Control

Date of Site Evaluation: 7/30/2020

Statement Documenting Areas Evaluated During Site Evaluation

List and clearly identify each of the specific areas evaluated.

Crop/hay fields and farm pastures were examined during the site visit

Identification of Critical Runoff Problem Areas

List of each specific critical runoff problem area identified.

No critical runoff problem areas were observed during the site visit

BMPs to Address Critical Runoff Problem Areas

List of BMPs (including PA Technical Guide standard name and number) and specific management changes that will be implemented to address each of the critical runoff problem areas listed above.

None

Appendix 8

Importer/Broker Agreements & NBSs

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

Manure from this operation is included in the Approved Act 38 Nutrient Management Plan for Pine Hurst Acres of Danville, PA. Find attached importer exporter agreement.

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 9/25/2020, by Duane Bassett (the "exporter") who will supply manure, and Pine Hurst Acres (Rich Crone) (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 (county, twp, and address): 48 Gravel Lane, Sunbury, PA 17801
- 4) The exporter will, as the supply of manure allows, provide the following amounts of manure during the seasons outlined below:

Tons of Poultry (species) manure, per season:
 Spring 500 Summer 500 Fall 500 Winter _____

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 Poultry (species) manure: Up to 500 Tons
 Gallons of _____ (species) manure: _____

If multi-species are planned, please add additional lines:

- 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: 570 849 0202
- b) County(s): Northumberland
- c) Address: 3036 Sunbury Road, Danville, PA 17821
- d) Township(s): Rush, Upper Augusta
- d) Owner(s) of the property receiving manure: See Attached Page
- e) Total cropland acres managed by the importer: Included in Act 38 NMP
- f) Number and type of animals raised by the importer: Included in Act 38 NMP
- g) Number of acres available for this imported manure: Up to 1,500
- 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.) Included in Act 38 NMP
 - o If other manure is generated, imported and/or utilized, is it applied to the same acres as Indicated in item "g" above (relating to "acres available"): Yes or No

This Section to be completed by Importer



- **If other manure is generated, imported and/or utilized, is it applied during the same season as the imported manure: 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) A manure export informational packet (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.
 The manure export informational packet must include the following:
 - i. Exported Manure Informational Packet Guidance Sheet
 - ii. Nutrient Management Planning an Overview (Agronomy Facts 60)
 - iii. Manure Management for Environmental Protection
 - iv. Land Application of Manure- A supplement to the Manure Management Manual Plan Guidance
 - v. Manure Export Sheet
 - vi. Manure Transfer Summary Sheets
 - vii. Manure Field Stacking Requirements Fact Sheet
 - 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 .
 - 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

Duane Bassett (signature)

Duane Bassett (name)

10/16/20 (date)

Importer Signature, Name and Date

Richard Crone (signature)

Richard Crone (name)

10/16/2020 (date)



Pine Hurst Acres Properties LLC

Delevan Whitenight

Ron Schmidt

Mary Pison

John Malcolm

Rebecca Horne

Zach Clemens

Eruda Epler

Thomas Boop

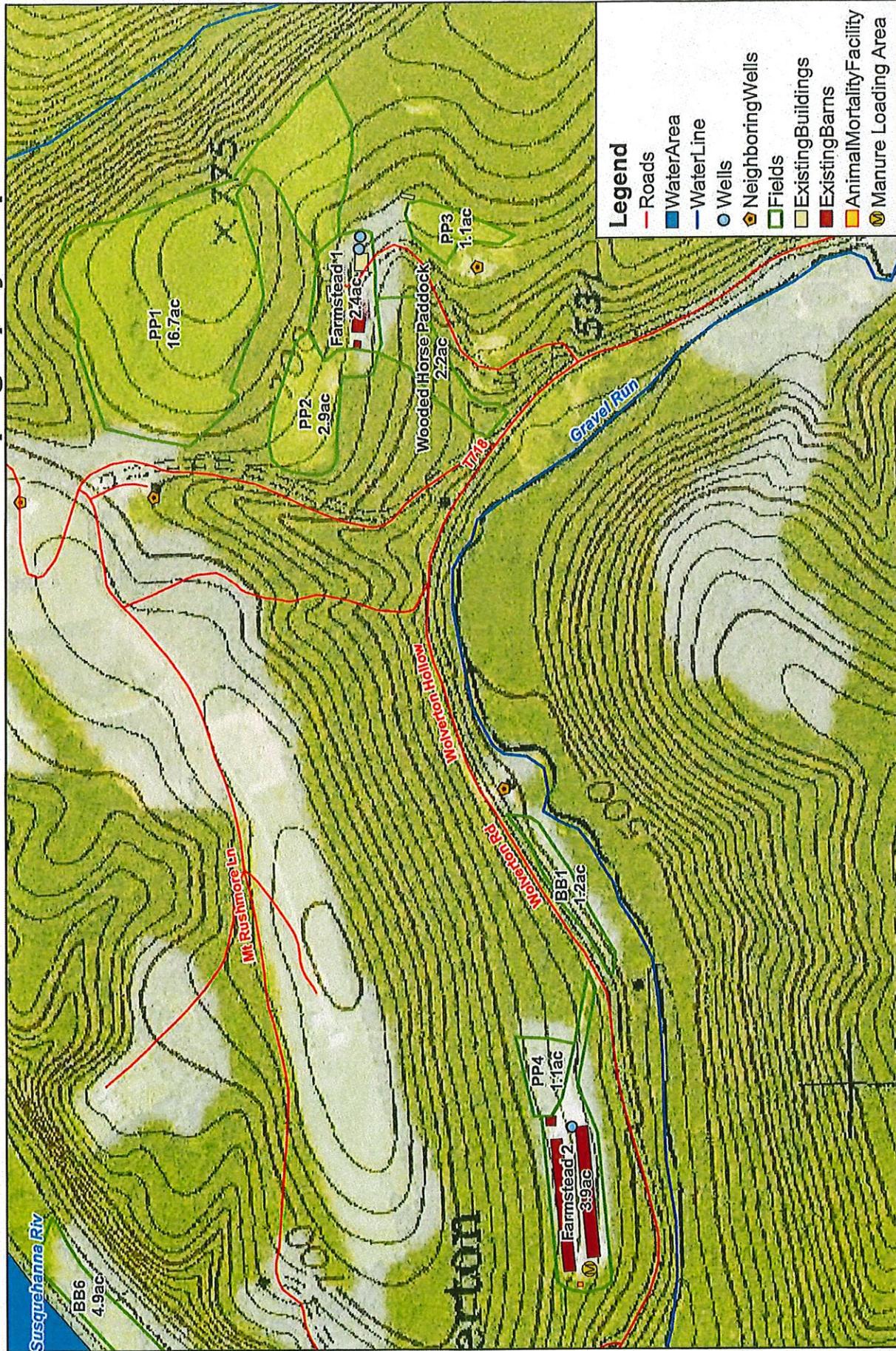
Elizabeth Bebenek

Dale Beiber

Appendix 9 Operation Maps

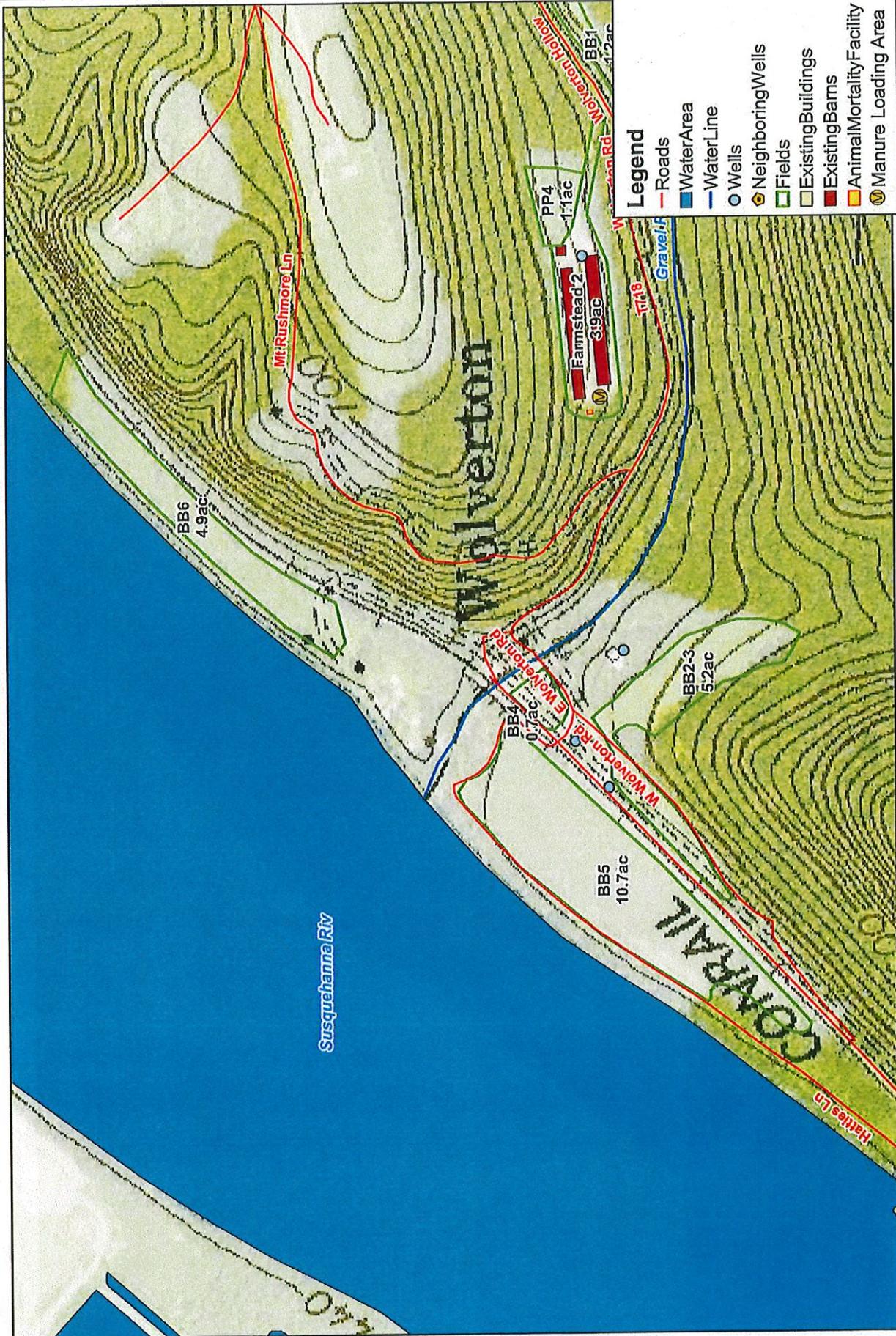
Three types of maps are required for an Act 38 Nutrient Management Plan: 1) Topographic Map, 2) Soils Map, and 3) Operator Management Map. The **Topographic Map and Soils Map** must be included here. The Topographic map must be drawn to scale and identify the land included in the plan with operation boundaries. The Soils Map must include the field identification and boundaries, soil types and slopes with soil 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.

Duane Bassett - Farmstead & Pasture Topography Map

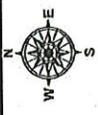


Application buffers/setbacks are approximate, field verification is required prior to land application

Duane Bassett - BB Fields

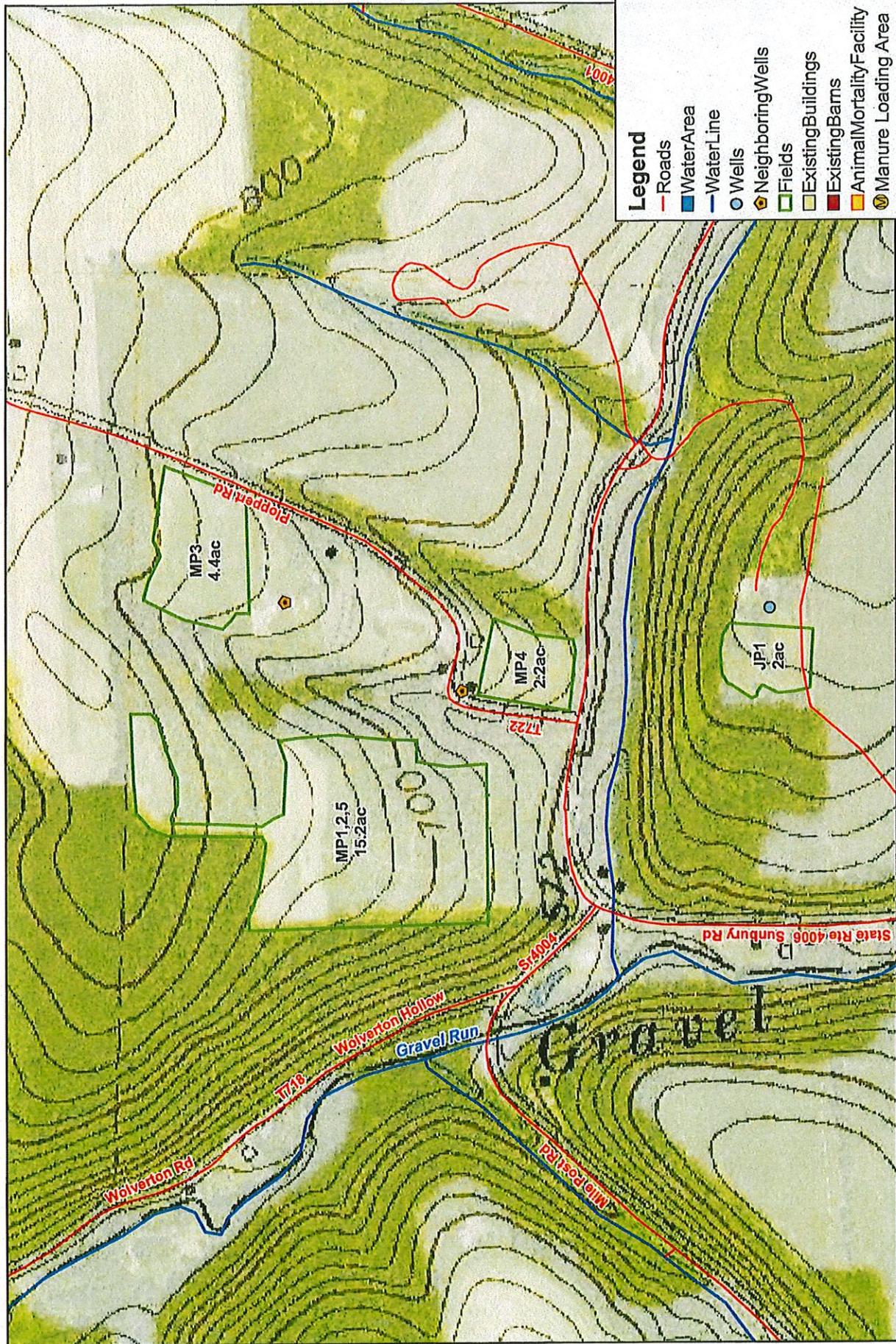


- Legend**
- Roads
 - Water Area
 - Water Line
 - Wells
 - Neighboring Wells
 - Fields
 - Existing Buildings
 - Existing Barns
 - Animal Mortality Facility
 - Manure Loading Area



Application buffers/setbacks are approximate, field verification is required prior to land application

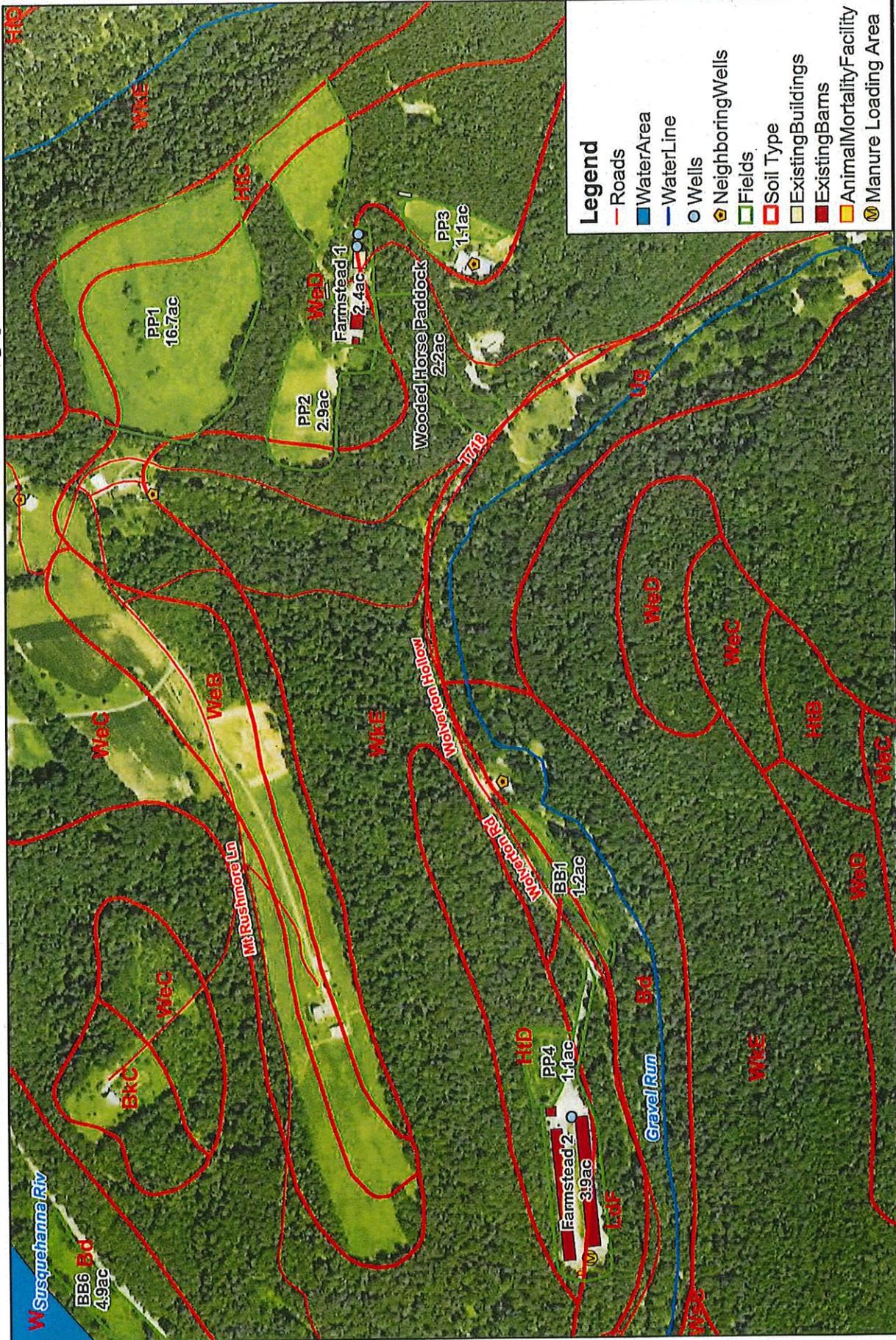
Duane Bassett - MP & JP Fields



** Application buffers/setbacks are approximate, field verification is required prior to land application**

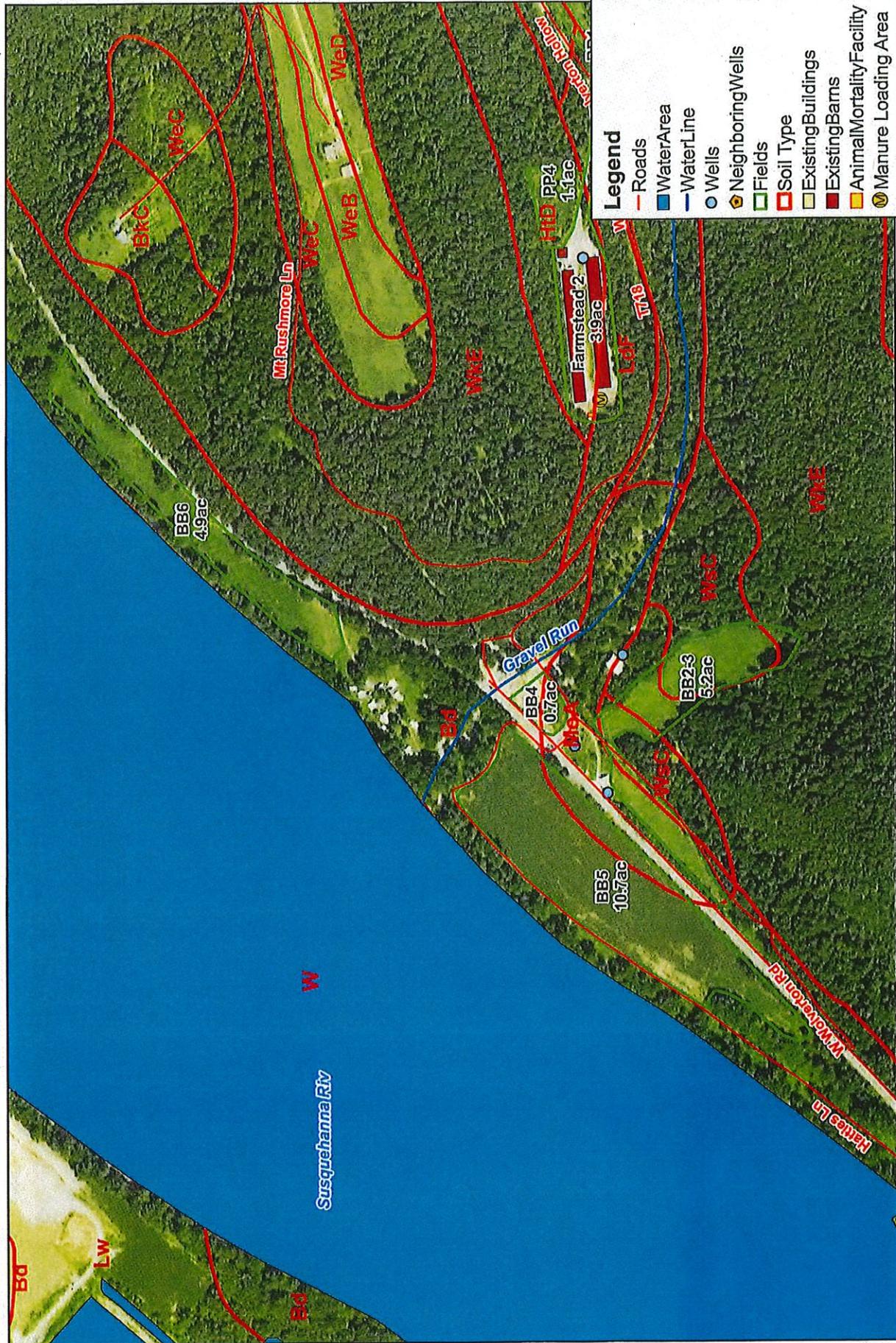


Duane Bassett - Farmstead & Pasture Soil Type Map



Application buffers/setbacks are approximate, field verification is required prior to land application

Duane Bassett - BB Fields



Application buffers/setbacks are approximate, field verification is required prior to land application

Northumberland County Soils Legend

- ABb ALBRIGHTS SILT LOAM, 3 TO 8 PERCENT SLOPES
- ADa ALLENWOOD GRAVELLY SILT LOAM, 0 TO 3 PERCENT SLOPES
- ADd ALLENWOOD GRAVELLY SILT LOAM, 15 TO 25 PERCENT SLOPES
- AOa ALLENWOOD AND WASHINGTON SOILS, 3 TO 8 PERCENT SLOPES
- AOc ALLENWOOD AND WASHINGTON SOILS, 8 TO 15 PERCENT SLOPES
- ArA ALVIRA SILT LOAM, 0 TO 3 PERCENT SLOPES
- ArB ALVIRA SILT LOAM, 3 TO 8 PERCENT SLOPES
- ArC ALVIRA SILT LOAM, 8 TO 15 PERCENT SLOPES
- AsB ALVIRA VERY STONY SILT LOAM, 0 TO 8 PERCENT SLOPES
- Ba BARBOUR SOILS, FREQUENTLY FLOODED
- Bb BARBOUR-LINDEN COMPLEX, RARELY FLOODED
- Bc BASHER SOILS
- Bd BASHER SOILS, FREQUENTLY FLOODED
- BeB BEDINGTON SILT LOAM, 3 TO 8 PERCENT SLOPES
- BeC BEDINGTON SILT LOAM, 8 TO 15 PERCENT SLOPES
- BeD BEDINGTON SILT LOAM, 15 TO 25 PERCENT SLOPES
- BkB BERKS SHALY SILT LOAM, 3 TO 8 PERCENT SLOPES
- BkC BERKS SHALY SILT LOAM, 8 TO 15 PERCENT SLOPES
- BkD BERKS SHALY SILT LOAM, 15 TO 25 PERCENT SLOPES
- BuB BUCHANAN GRAVELLY LOAM, 3 TO 8 PERCENT SLOPES
- BuC BUCHANAN GRAVELLY LOAM, 8 TO 15 PERCENT SLOPES
- BxB BUCHANAN VERY STONY LOAM, 0 TO 8 PERCENT SLOPES
- BxD BUCHANAN VERY STONY LOAM, 8 TO 25 PERCENT SLOPES
- CaB CALVIN-KLINESVILLE SHALY SILT LOAMS, 3 TO 8 PERCENT SLOPES
- CaC CALVIN-KLINESVILLE SHALY SILT LOAMS, 8 TO 15 PERCENT SLOPES
- CaD CALVIN-KLINESVILLE SHALY SILT LOAMS, 15 TO 25 PERCENT SLOPES
- DAM DAMS
- DeB DEKALB EXTREMELY STONY SANDY LOAM, 0 TO 8 PERCENT SLOPES
- DeD DEKALB EXTREMELY STONY SANDY LOAM, 8 TO 25 PERCENT SLOPES
- DeF DEKALB EXTREMELY STONY SANDY LOAM, STEEP
- Du DUMPS, MINE
- Dy DYSTROCHREPTS, BOULDERY
- EdB EDM COMPLEX, 3 TO 8 PERCENT SLOPES
- EdC EDM COMPLEX, 8 TO 15 PERCENT SLOPES
- EdD EDM COMPLEX, 15 TO 25 PERCENT SLOPES
- EsB ELLIBER CHERTY SILT LOAM, 3 TO 8 PERCENT SLOPES
- EsC ELLIBER CHERTY SILT LOAM, 8 TO 15 PERCENT SLOPES
- EsD ELLIBER CHERTY SILT LOAM, 15 TO 25 PERCENT SLOPES
- EBB ELLIBER VERY CHERTY SILT LOAM, 3 TO 8 PERCENT SLOPES
- ECB ELLIBER VERY CHERTY SILT LOAM, 8 TO 15 PERCENT SLOPES
- EDB ELLIBER VERY CHERTY SILT LOAM, 15 TO 25 PERCENT SLOPES
- EFB ELLIBER VERY CHERTY SILT LOAM, 25 TO 70 PERCENT SLOPES
- E-B EVENDALE CHERTY SILT LOAM, 3 TO 8 PERCENT SLOPES
- EBB HAGERSTOWN SILT LOAM, 3 TO 8 PERCENT SLOPES
- ECB HAGERSTOWN SILT LOAM, 8 TO 15 PERCENT SLOPES
- EDB HAGERSTOWN SILT LOAM, 15 TO 25 PERCENT SLOPES
- ECB HARTLETON CHANNERY SILT LOAM, 3 TO 8 PERCENT SLOPES
- HCB HARTLETON CHANNERY SILT LOAM, 8 TO 15 PERCENT SLOPES
- HDB HARTLETON CHANNERY SILT LOAM, 15 TO 25 PERCENT SLOPES
- HAB HAZLETON AND CLYMER EXTREMELY STONY SANDY LOAMS, 0 TO 8 PERCENT SLOPES
- HAD HAZLETON AND CLYMER EXTREMELY STONY SANDY LOAMS, 8 TO 25 PERCENT SLOPES
- HAF HAZLETON AND CLYMER EXTREMELY STONY SANDY LOAMS, 25 TO 80 PERCENT SLOPES
- Hv HOLLY SILT LOAM
- Hy HOLLY SILT LOAM, PONDED
- Hz HOLLY SILT LOAM, RARELY FLOODED
- KmB KREAMER CHERTY SILT LOAM, 3 TO 8 PERCENT SLOPES
- KmC KREAMER CHERTY SILT LOAM, 8 TO 15 PERCENT SLOPES
- LaB LAIDIG GRAVELLY LOAM, 3 TO 8 PERCENT SLOPES
- LaC LAIDIG GRAVELLY LOAM, 8 TO 15 PERCENT SLOPES
- LbB LAIDIG EXTREMELY STONY LOAM, 0 TO 8 PERCENT SLOPES
- LbD LAIDIG AND MECKESVILLE EXTREMELY STONY SOILS, 8 TO 25 PERCENT SLOPES
- LbF LAIDIG AND MECKESVILLE EXTREMELY STONY SOILS, STEEP
- LbB LAKIN LOAMY FINE SAND, 3 TO 8 PERCENT SLOPES
- LkC LAKIN LOAMY FINE SAND, 8 TO 15 PERCENT SLOPES
- LmB LECK KILL SHALY SILT LOAM, 3 TO 8 PERCENT SLOPES
- LmC LECK KILL SHALY SILT LOAM, 8 TO 15 PERCENT SLOPES
- LmD LECK KILL SHALY SILT LOAM, 15 TO 25 PERCENT SLOPES
- Lw LINDEN SILT LOAM
- MbB MECKESVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES
- MbC MECKESVILLE SILT LOAM, 8 TO 15 PERCENT SLOPES
- MbD MECKESVILLE SILT LOAM, 15 TO 25 PERCENT SLOPES
- MoA MONONGAHELA SILT LOAM, 0 TO 3 PERCENT SLOPES
- MoB MONONGAHELA SILT LOAM, 3 TO 8 PERCENT SLOPES
- OpB OPEQUON SILTY CLAY LOAM, 3 TO 8 PERCENT SLOPES
- OpD OPEQUON SILTY CLAY LOAM, 8 TO 25 PERCENT SLOPES
- OpE OPEQUON SILTY CLAY LOAM, 25 TO 50 PERCENT SLOPES
- Pa PITS
- Qu QUARRIES
- RwB RUSH TOWN VERY SHALY SILT LOAM, 3 TO 8 PERCENT SLOPES
- RwC RUSH TOWN VERY SHALY SILT LOAM, 8 TO 25 PERCENT SLOPES
- Sha SHELMADINE SILT LOAM, 0 TO 3 PERCENT SLOPES
- SbB SHELMADINE SILT LOAM, 3 TO 8 PERCENT SLOPES
- Smb SHELMADINE VERY STONY SILT LOAM, 0 TO 8 PERCENT SLOPES
- Uf UDIFLUVENTS, COAL OVERWASH
- Ug UDIFLUVENTS AND FLUVAQUENTS, GRAVELLY
- Uh UDORTHERTS, SANDSTONE AND SHALE
- UnB UNADILLA SILT LOAM, 3 TO 8 PERCENT SLOPES
- UnC UNADILLA SILT LOAM, 8 TO 15 PERCENT SLOPES
- UnD UNADILLA SILT LOAM, 15 TO 25 PERCENT SLOPES
- Ur URBAN LAND
- W WATER
- WbB WASHINGTON SILT LOAM, WET SUBSTRATUM, 3 TO 8 PERCENT SLOPES
- WbA WATSON SILT LOAM, 0 TO 3 PERCENT SLOPES
- WbB WATSON SILT LOAM, 3 TO 8 PERCENT SLOPES
- WbC WATSON SILT LOAM, 8 TO 15 PERCENT SLOPES
- Web WEIKERT SHALY SILT LOAM, 3 TO 8 PERCENT SLOPES
- WeC WEIKERT SHALY SILT LOAM, 8 TO 15 PERCENT SLOPES
- WeD WEIKERT SHALY SILT LOAM, 15 TO 25 PERCENT SLOPES
- WEA WEIKERT AND KLINESVILLE SHALY SILT LOAMS, STEEP
- Wsa WHEELING SOILS, 0 TO 3 PERCENT SLOPES
- Wsb WHEELING SOILS, 3 TO 8 PERCENT SLOPES
- Wsc WHEELING SOILS, 8 TO 15 PERCENT SLOPES
- WVA WYOMING GRAVELLY SANDY LOAM, 0 TO 3 PERCENT SLOPES
- WvB WYOMING GRAVELLY SANDY LOAM, 3 TO 8 PERCENT SLOPES

Appendix 10

Supporting Information & Documentation

Crop Years 2021

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.

Bedding Calculations:

For the Mixed Penpack manure group, the operator uses 8, 22lb bales of shavings per month, and only uses the shavings typically from November-March

8 Bags x 22 lbs = 176lbs per month

176lbs per month x 5 months (Nov-Mar) = 880 lbs/ per crop year = **0.44 Tons of bedding added.**

Manure Analysis 5 Year Running Average						
Manure Average for Crop Years. 2021	Broiler Manure					
	Average	1 year ago	2 years ago	3 years ago	4 years ago	5 years ago
Manure Report Date	Jul 31 2020	Jul 31 2020				
Laboratory Name	Waypoint Analytical	Waypoint Analytical				
Manure Type	Poultry	Poultry				
Manure Unit (lbs/ton or 1000 gal)	lb/ton	lb/ton				
Total Nitrogen (N) (lbs/ton or 1000 gal)	58.20	58.20				
Ammonium N (NH ₄ -N) (lbs/ton or 1000 gal)	11.80	11.80				
Total Organic N (lbs/ton or 1000 gal)	46.40	46.40				
Total Phosphate (P ₂ O ₅) (lbs/ton or 1000 gal)	57.00	57.00				
Total Potash (K ₂ O) (lbs/ton or 1000 gal)	58.30	58.30				
Percent Solids	81.50	81.50				
PSC Value (Enter analytical or book value)	0.59	0.59				

Manure Average for Crop Years. 2021	Mixed Penpack					
	Average	1 year ago	2 years ago	3 years ago	4 years ago	5 years ago
Manure Report Date	Jul 31 2020	Jul 31 2020				
Laboratory Name	Waypoint Analytical	Waypoint Analytical				
Manure Type	Other	Other				
Manure Unit (lbs/ton or 1000 gal)	lb/ton	lb/ton				
Total Nitrogen (N) (lbs/ton or 1000 gal)	19.30	19.30				
Ammonium N (NH ₄ -N) (lbs/ton or 1000 gal)	1.60	1.60				
Total Organic N (lbs/ton or 1000 gal)	17.70	17.70				
Total Phosphate (P ₂ O ₅) (lbs/ton or 1000 gal)	24.60	24.60				
Total Potash (K ₂ O) (lbs/ton or 1000 gal)	41.80	41.80				
Percent Solids	35.50	35.50				
PSC Value (Enter analytical or book value)	0.28	0.28				

Manure Analysis 5 Year Running Average

Manure Average for Crop Years. 2021	Cattle					
	Average	1 year ago	2 years ago	3 years ago	4 years ago	5 years ago
Manure Report Date	n/a	n/a				
Laboratory Name	Book Value	Book Value				
Manure Type	Other	Other				
Manure Unit (lbs/ton or 1000 gal)	lb/ton	lb/ton				
Total Nitrogen (N) (lbs/ton or 1000 gal)	11.00	11.00				
Ammonium N (NH ₄ -N) (lbs/ton or 1000 gal)	Complete NH ₄ -N					
Total Organic N (lbs/ton or 1000 gal)		11.00				
Total Phosphate (P ₂ O ₅) (lbs/ton or 1000 gal)	7.00	7.00				
Total Potash (K ₂ O) (lbs/ton or 1000 gal)	10.00	10.00				
Percent Solids	Complete percent solids					
PSC Value (Enter analytical or book value)	0.80	0.80				

Manure Average for Crop Years. 2021	Field PP1 - Grazing Calculator					
	Average	1 year ago	2 years ago	3 years ago	4 years ago	5 years ago
Manure Report Date	Uncollected Book	Uncollected Book				
Laboratory Name	PSU Agronomy Guide	PSU Agronomy Guide				
Manure Type	Other	Other				
Manure Unit (lbs/ton or 1000 gal)	lb/ton	lb/ton				
Total Nitrogen (N) (lbs/ton or 1000 gal)	9.35	9.35				
Ammonium N (NH ₄ -N) (lbs/ton or 1000 gal)						
Total Organic N (lbs/ton or 1000 gal)	9.35	9.35				
Total Phosphate (P ₂ O ₅) (lbs/ton or 1000 gal)	3.00	3.00				
Total Potash (K ₂ O) (lbs/ton or 1000 gal)	6.45	6.45				
Percent Solids						
PSC Value (Enter analytical or book value)	0.80	0.80				

Manure Analysis 5 Year Running Average

Manure Average for Crop Years, 2021	Field PP4 - Grazing Calculator					
	Average	1 year ago	2 years ago	3 years ago	4 years ago	5 years ago
Manure Report Date	Uncollected Book	Uncollected Book				
Laboratory Name	PSU Agronomy Gulde	PSU Agronomy Gulde				
Manure Type	Other	Other				
Manure Unit (lbs/ton or 1000 gal)	lb/ton	lb/ton				
Total Nitrogen (N) (lbs/ton or 1000 gal)	23.00	23.00				
Ammonium N (NH ₄ -N) (lbs/ton or 1000 gal)						
Total Organic N (lbs/ton or 1000 gal)	23.00	23.00				
Total Phosphate (P ₂ O ₅) (lbs/ton or 1000 gal)	8.00	8.00				
Total Potash (K ₂ O) (lbs/ton or 1000 gal)	20.00	20.00				
Percent Solids						
PSC Value (Enter analytical or book value)	0.80	0.80				

Manure Average for Crop Years, 2021	Field PP2 - Grazing Calculator					
	Average	1 year ago	2 years ago	3 years ago	4 years ago	5 years ago
Manure Report Date	Uncollected Book	Uncollected Book				
Laboratory Name	PSU Agronomy Gulde	PSU Agronomy Gulde				
Manure Type	Other	Other				
Manure Unit (lbs/ton or 1000 gal)	lb/ton	lb/ton				
Total Nitrogen (N) (lbs/ton or 1000 gal)	12.00	12.00				
Ammonium N (NH ₄ -N) (lbs/ton or 1000 gal)						
Total Organic N (lbs/ton or 1000 gal)	12.00	12.00				
Total Phosphate (P ₂ O ₅) (lbs/ton or 1000 gal)	5.00	5.00				
Total Potash (K ₂ O) (lbs/ton or 1000 gal)	9.00	9.00				
Percent Solids						
PSC Value (Enter analytical or book value)	0.80	0.80				

Manure Analysis 5 Year Running Average

Manure Average for Crop Years, 2021	Field PP3 - Grazing Calculator					
	Average	1 year ago	2 years ago	3 years ago	4 years ago	5 years ago
Manure Report Date	Uncollected Book	Uncollected Book				
Laboratory Name	PSU Agronomy Guide	PSU Agronomy Guide				
Manure Type	Other	Other				
Manure Unit (lbs/ton or 1000 gal)	lb/ton	lb/ton				
Total Nitrogen (N) (lbs/ton or 1000 gal)	12.00	12.00				
Ammonium N (NH ₄ -N) (lbs/ton or 1000 gal)						
Total Organic N (lbs/ton or 1000 gal)	12.00	12.00				
Total Phosphate (P ₂ O ₅) (lbs/ton or 1000 gal)	5.00	5.00				
Total Potash (K ₂ O) (lbs/ton or 1000 gal)	9.00	9.00				
Percent Solids						
PSC Value (Enter analytical or book value)	0.80	0.80				

Calculator to determine manure nutrients deposited by grazing animals														
Field or CHU ID	Acres	Field and Grazing Group Name	Animal Group	Animal Number	Days on Pasture	Grazing Season Information			Total Uncollected Manure deposited on the field Tons	Planned Manure Rate Uncollected Manure Tons/A	Weighted Average Manure Nutrients (lb/ton)			Grazing Note
						Begin Month	End Month	Hours / Day on Pasture			N	P ₂ O ₅	K ₂ O	
PP4	1.1	Field PP4 - Grazing Calculator	Sheep Ewe - Uncollected	12	365	Jan.	Dec.	12	11.08	10.07	23	8	20	Grazing group includes the following animals on pasture: 12 sheep from the Sheep Ewe animal group, 12 hours per day for 365 days, from Jan. to Dec. 18 sheep from the Sheep Lamb animal group, 12 hours per day for 180 days, from Feb. to Sep. 1 sheep from the Sheep Ram animal group, 12 hours per day for 365 days, from Jan. to Dec.
			Sheep Lamb - Uncollected	18	180	Feb.	Sep.	12						
			Sheep Ram - Uncollected	1	365	Jan.	Dec.	12						

Calculator to determine manure nutrients deposited by grazing animals

Field or CMU ID	Acres	Field and Grazing Group Name	Animal Group	Animal Number	Days on Pasture	Grazing Season Information			Total Uncollected Manure deposited on the field Tons	Planned Manure Rate Uncollected Manure Tons/A	Weighted Average Manure Nutrients (t/ton)			Grazing Note
						Begin Month	End Month	Hours/Day on Pasture			N	P ₂ O ₅	K ₂ O	
PP2	2.9	Field PP2 - Grazing Calculator	Horse - Uncollected	1	265	Jan.	Dec.	18	5.47	12	5	9	Grazing group includes the following animals on pasture: 1 horses from the Horse animal group, 18 hours per day for 265 days, from Jan. to Dec. 3 pony from the Ponies animal group, 18 hours per day for 265 days, from Jan. to Dec.	
			Ponies - Uncollected	3	265	Jan.	Dec.	18						

Calculator to determine manure nutrients deposited by grazing animals														
Field or CMU ID	Acres	Field and Grazing Group Name	Animal Group	Animal Number	Days on Pasture	Grazing Season Information				Planned Manure Ratio Uncollected Manure Tons/A	Weighted Average Manure Nutrients (lb/ton)			Grazing Note
						Begin Month	End Month	Hours / Day on Pasture	Total Uncollected Manure deposited on the field Tons		N	P ₂ O ₅	K ₂ O	
PP3	1.1	Field PP3 - Grazing Calculator	Horse - Uncollected	1	100	Jan.	Dec.	18	5.44	12	5	9	Grazing group includes the following animals on pasture: 1 horses from the Horse animal group, 18 hours per day for 100 days; from Jan. to Dec. 3 pony from the Ponies animal group, 18 hours per day for 100 days; from Jan. to Dec.	
			Ponies - Uncollected	3	100	Jan.	Dec.	18						

Animal Groups	Total sum of days on pasture	Total Tons Uncollected manure allocated per animal group in the Grazing Group Manure Calculator	Total Tons Uncollected manure generated per animal group
Horse - Uncollected	365.0	8.28	8.28
Ponies - Uncollected	365.0	13.55	13.55
Sheep Ewe - Uncollected	365.0	7.67	7.67
Sheep Lamb - Uncollected	180.0	2.59	2.59
Sheep Ram - Uncollected	365.0	0.82	0.82
Cows - Uncollected	365.0	111.69	111.69
Calves - Uncollected	240.0	31.68	31.68
Steers/Replacements - Uncollected	365.0	29.57	29.57



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Manure Spreader Calibration

Manure spreader calibration is an essential and valuable nutrient management tool for maximizing the efficient use of available manure nutrients. Planned manure application rates listed in nutrient management plans must correlate with actual application rates. Calibrating the manure spreader is the only way to know actual manure application rates.

Manure spreader calibration combined with soil test recommendations and manure analysis results enable the determination of nutrient application rates that meet crop nutrient needs. The most critical and challenging aspect of both soil and manure analysis is obtaining a representative sample to submit to the laboratory. It is critical to learn and follow recommended soil and manure sampling procedures in order to obtain a representative sample and test results. The manure nutrient levels and crop nutrient requirements from test results are used to determine manure application rates that will adequately meet crop needs. Manure spreader calibration ensures that manure application rates are realistic, practical, and attainable.

Manure application rates are determined by equipment speeds and settings along with application management, such as overlaps. Manure spreader calibration can be used two ways in nutrient management planning:

Before planning— Spreaders can be calibrated to determine the rates that can be applied at typical application settings and speed. These rates are then used as the possible planned rates when the nutrient management plan is developed.

After planning— Spreaders can be calibrated to meet planned application rates by changing speeds, settings, or management. In this case, desired application rates are determined as the nutrient management plan is developed and the spreader is calibrated accordingly.

OVERVIEW OF SPREADER CALIBRATION

An application rate is defined as the amount of manure applied per unit of land area. For manure, it is usually expressed in tons per acre (solid) or gallons per acre (liquid). Generally, application rate equals the amount of manure applied (in tons or gallons) divided by the area covered (in acres).

Manure spreader calibration requires reliable estimates of both the amount applied and area covered. There are two common calibration techniques. The **swath or load-area method** involves measuring both the amount of manure in a typical spreader load and the land area covered by applying one load of manure. While this method can be used for all manures, it is the best method for liquid manure applicators. The **tarp or weight-area method** involves weighing the manure spread over a small surface and computing the amount of manure applied per acre. This method is the best method for solid manure applicators.

CALIBRATION METHODS

Below are descriptions of the two most common calibration methods.

Swath (Load-Area) Method

Liquid manure applicators used in pump-and-haul application systems are best calibrated by the swath or load-area method, which involves land applying a full load of manure and measuring the land area covered. If possible, choose an area that is typical of the land where manure will be spread. If appropriate, a relatively level area long enough for the load to be applied in a single pass makes measurements and calculations simpler. A rectangular field pattern should be used to make measuring easier. The application rate of PTO-driven spreaders depends on ground speed. Therefore, it is important to maintain a uniform ground speed throughout the swath length. Ground-driven spreaders deliver reasonably uniform application rates regardless of ground speed.

For liquid application equipment, application rates and patterns vary depending on ground speed or PTO speed, gear box settings, gate openings, operating pressures, spread widths, and overlaps. To change the application rates, adjust-

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ments must be made in tractor/PTO speeds, spreader output settings, or application management. The calibration process should be followed for each change or combination of changes. Several calibration passes may be necessary to determine the settings required for the desired application rate.

Use the swath (load-area) method procedure and record sheet provided at the end of this publication for this calibration method.

Tarp (Weight-Area) Method

Solid manure applicators are best calibrated by the tarp or weight-area method, which involves measuring the amount of manure (weight) applied over a small measured area (tarp). The application rate is determined by dividing the amount (weight) of manure collected on the tarp by the size of the collection area (tarp).

For solid application equipment, applications rates and patterns vary depending on ground speed or PTO speed, gear box settings, gate openings, operating pressures, spread widths, and overlaps. To change the application rates, adjustments must be made in tractor/PTO speeds, spreader output settings, or application management. The calibration process should be followed for each change or combination of changes. Several calibration passes may be necessary to determine the settings required for the desired application rate.

Use the tarp (weight-area) method procedure and record sheet provided at the end of this publication for this calibration method.

DETERMINING MANURE SPREADER CAPACITY

The load-area method of manure spreader calibration requires knowledge of the manure spreader's capacity. Manure spreader capacity can be determined by one of the following methods.

Manufacturer's Capacity Ratings

The rated capacity for liquid spreaders can be used directly if the spreader is typically filled to capacity. In many cases, the spreader is not fully loaded. Therefore, adjustments must be made for less than full capacity.

The rated capacity of box-type solid or semisolid spreaders must be adjusted according to the fullness of a typical load of manure. Make sure to note whether the rating specifications are for "heaped or piled" or "level" loads.

If there is any uncertainty about the rate capacity, then a more accurate method is needed to measure the actual volume of manure.

Measure Spreader Volume

Spreader volume can be estimated by using the calculations in Figure 1. All dimensions used in the following formulas must be in feet in order to obtain volumes that are in cubic feet. After calculating volume in cubic feet, convert the cubic feet to pounds and then convert pounds to tons or gallons based on manure density using the conversion factors in Table 1.

Figure 1. Calculating estimated manure spreader volumes.

Solid or Semisolid

- [A] Box spreader (level load)*
volume = length x width x depth
- [B] Box spreader (piled load)*
volume = length x width x [depth + (stacking height** x 0.8)]
- [C] Round-bottom open-top spreader (level load)
volume = length x depth x depth x 1.6
- [D] Round-bottom open-top spreader (piled load)
volume = length x depth x 1.6 x (depth + stacking height**)

Liquid

- [A] Box spreader (level load)*
volume = length x width x depth
- [C] Round-bottom open-top spreader (level load)
volume = length x depth x depth x 1.6
- [E] Tank spreader (round)
volume = length x tank diameter x tank diameter x 0.8
- [F] Tank spreader (noncircular)
volume = length x width x depth x 0.8

*For a box spreader with sloping sides, use an average width.
**Stacking height is the height of any mounded manure above level.

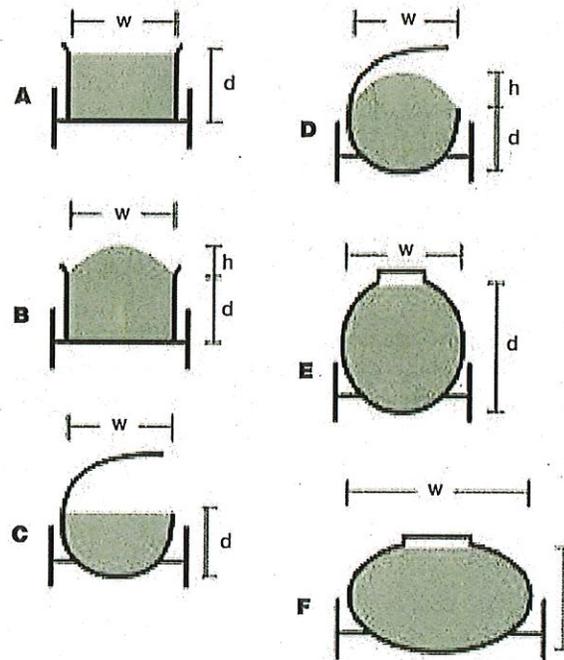


Table 1. Commonly required conversions for manure spreader volumes.

To convert from	To	Multiply by
bushels	cubic feet	1.24
gallons	cubic feet	0.134
gallons	pounds	8.3 (liquid)
gallons	tons	0.0041 (liquid)
cubic feet	gallons	7.48
cubic feet	tons	0.031 (liquid) or 0.0275 (solid)
cubic feet	pounds	62 (liquid) or 55 (solid)

See the next page for instructions to determine the actual manure density.

Weigh Manure Load

The most accurate way to determine the capacity of a spreader is to directly weigh the spreader. The spreader should be weighed using drive-on scales or weigh pads.

First, weight the spreader empty and then weight at least three typical loads of manure. Obtain an average weight of the full loads and subtract the weight of the empty load to determine the weight of the manure. Convert this weight to tons or gallons.

DETERMINING MANURE DENSITY

Manure density (weight per cubic foot) varies with moisture content primarily depending on the amount of bedding. To calculate a more accurate estimate of manure density, use the procedure below.

1. Weigh an empty 5-gallon bucket. Record the weight in pounds.
2. Fill the 5-gallon bucket with a typical sample of the manure to be applied and weigh the bucket and manure. Record the weight in pounds.
3. Subtract the weight of the empty bucket (step 1) from the weight of manure and bucket (step 2). Record the weight of manure in pounds.
4. Repeat steps 2 and 3 at least six times and calculate the average manure weight (add the six weights together and divide by six). Record average weight of manure in pounds.
5. Multiply the average manure weight (step 4) by 1.5 to obtain the estimated manure density in pounds per cubic foot. Record the manure density in pounds per cubic foot.

SWATH (LOAD-AREA) METHOD CALIBRATION PROCEDURE

Obtain calibration equipment and supplies.

- Measuring wheel (available from any farm supply catalog, such as NASCO).
1. Determine manure spreader capacity.
 - Use manufacturer's ratings or actual weighing of the spreader, or estimate by using spreader volume calculations described above.
 - Record the capacity in gallons (liquid manure) or tons (solid manure).
 - Load the spreader consistently with the capacity determination above.
 2. Spread one full load of manure in a rectangular pattern. Note the details of the operating conditions (e.g., tractor gear, throttle setting, PTO speed, tractor speed, spreader settings).
 3. Measure the length and the effective application width of the application coverage area.
 - Record the distances in feet.
 - An alternative method of measuring the application length is to note the ground speed and time required to make the application pass. To calculate length covered, multiply the ground speed (in mph) by the number of seconds by 1.46 feet per second.
 4. Calculate the size of the coverage area.
 - Multiply the length by the width and divide by 43,560 square feet per acre.
 - Record the coverage area in acres.
 5. Calculate the application rate.
 - Divide the volume of the spreader load of manure (step 1a) by the acres covered (step 4b).
 - Record manure application rate in gallons or tons per acre.
 6. Repeat the calibration procedure one or two more times.
 - Repetition is necessary to increase reliability of the application rate. A certain amount of variation is inevitable. However, if there is significant variation among repetitions, check over the equipment and review your calibration procedure to try to determine the cause of the variation.
 - Repeat steps 2 through 5.
 - Calculate the average of each of the measured manure application rates.
 - Record the final calibrated rate in gallons or tons per acre.

MANURE SPREADER CALIBRATION RECORD SHEET – SWATH (LOAD-AREA) METHOD

Spreader Identification			
Date			
1. Determine the capacity of the spreader (use gallons for liquid manure and tons for solid manure).			
a. Spreader capacity	gallons or tons		
2. Spread one full load in a rectangular pattern.			
Forward speed, gear, or throttle setting			
PTO speed or setting			
Spreader gate opening setting			
3. Measure the coverage area.			
	Trial 1	Trial 2	Trial 3
a. Spread area width	feet	feet	feet
b. Spread area length	feet	feet	feet
4. Calculate the area covered.			
a. Spread area (3a x 3b)	ft ²	ft ²	ft ²
b. Spread area (4a ÷ 43,560)	acres	acres	acres
5. Calculate the manure application rate.			
a. Application rate (1a ÷ 4b)	gallons or tons/acre		
6. Average each of the calibration trials to determine the final application rate.			
Final calibrated application rate (average of trials in 5a)			gallons or tons/acre

Tarp (Weight-Area) Method Calibration Procedure

Obtain calibration equipment and supplies.

- Tarp or plastic (heavy) sheet approximately 100 square feet in size (9 x 12, 10 x 10, 10 x 12, etc.)
 - Tent pegs or long nails
 - Scales (spring-tension or platform)
 - Bucket (optional to assist in weighing)
1. Measure the exact surface area of the tarp or plastic sheet (length x width).
 - Record the surface area in square feet.
 - Weigh the "empty" tarp or plastic sheet. If using a bucket, weigh the tarp or plastic sheet with the bucket.
 - Record the weight (empty) in pounds. (3a)
 2. Position the tarp in the field where the manure can be spread.
 - Place it far enough into the field to allow enough distance to get the spreader in gear and the tractor up to the desired speed.
 - Avoid placing the tarp where the beginning or end of the load is likely to fall.
 - Secure each corner of the tarp with a tent peg or long nail.
 - Spread the first pass of manure directly over the center of the tarp.
 - Operate the spreader at the speed normally driven when applying manure.
 - Note the details of the operating conditions (e.g., tractor gear, throttle setting, PTO speed, tractor speed, spreader settings).
 - Spread two additional passes on opposite sides of the center of the tarp.
 - Apply these passes at the normal spreader overlap spacing.
 3. Remove and fold the tarp.
 - Be careful not to spill any of the collected manure.
 - If using a bucket for weighing, place the manure and tarp in the bucket.
 - Weigh the tarp and manure (and bucket).
 - Record the weight (gross) in pounds (step 3b).
 - Subtract the empty tarp weight (and bucket if using a bucket) (step 3a) from the gross tarp weight (step 3b).
 - Record the weight of collected manure in pounds.

4. Determine the manure application rate.

- Divide the amount of manure collected (in pounds) (step 3c) by the tarp area (in square feet) (step 1a).
- Multiply this value by 21.8 ($43,560 \text{ ft}^2/\text{acre} \div 2,000 \text{ lbs/ton}$) to convert pounds per square foot to tons per acre.
- Record the manure application rate in tons per acre.

5. Repeat the calibration procedure one or two more times.

- Repetition is necessary to increase reliability of the application rate.
- Repeat steps 2 through 4.
- Calculate the average of each of the measured manure application rates.
- Record the final calibrated rate in tons per acre.

MANURE SPREADER CALIBRATION RECORD SHEET – TARP (WEIGHT-AREA) METHOD

Spreader Identification			
Date			
1. Measure tarp surface area. Weigh the empty tarp and record under 3a below. Spread and secure the tarp or plastic sheet in the field.			
a. Tarp surface area:	width x	length =	ft ²
2. Spread manure over the center of the tarp and on each side of the tarp at the normal overlap spacing.			
Forward speed, gear, or throttle setting			
PTO speed or setting			
Spreader gate opening setting			
3. Fold and weigh the tarp (and weighing container) with an accurate set of spring-tension or platform scales.			
	Trial 1	Trial 2	Trial 3
a. Empty weight	lbs	lbs	lbs
b. Gross weight with manure	lbs	lbs	lbs
c. Net weight (3b – 3a)	lbs	lbs	lbs
4. Calculate the manure application rate.			
a. Application rate (3c ÷ 1a)	lbs/ft ²	lbs/ft ²	lbs/ft ²
b. Application rate (4a x 21.8)	tons/acre	tons/acre	tons/acre
5. Average each of the calibration trials to determine the final application rate.			
Final calibrated application rate (average of trials in 4b)			tons/acre

Prepared by Gerald Martin, senior extension associate, and Douglas Beegle, professor of agronomy.

Peer-review feedback provided by William Clouser, nutrient management program supervisor, State Conservation Commission; Douglas Goodlander, nutrient management program director, State Conservation Commission; Robert Meinen, senior extension associate, Penn State Cooperative Extension in Dairy and Animal Science; and Jennifer Weld, project associate, Penn State Department of Crop and Soil Sciences.

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**COMMONWEALTH OF PENNSYLVANIA
STATE CONSERVATION COMMISSION**

Date: March 3, 2021

To: Members
State Conservation Commission

From: Johan E. Berger, Conservation Program Director
Financial Administration, Policy, Certification & Conservation District Programs

RE: Strategy for Expansion of the Conservation Excellence Grant (CEG) Program and
Allocation of Available Funds

Actions Requested:

- 1) Consider and approve a strategy for the distribution of appropriated funds to participating conservation districts in the Conservation Excellence Grant Pilot Program.
- 2) Consider and approve the distribution of FY2020-21 funds allocated for the Conservation Excellence Grant Program to current participating conservation districts.
- 3) Consider and approve of the expansion of the Conservation Excellence Grant Pilot Program into additional counties.

Background: County conservation districts are identified in the CEG Program enabling legislation (July 1, 2019, 3 Pa. C. S. §§ 3101 et seq) as an entity that may be delegated authority for administration of the program on behalf of the Commission at the county level. Consistent with the CEG enabling legislation the Commission first entered into delegation agreements with Lancaster and York Conservation Districts who are designated as Tier 1 Chesapeake Bay counties in the 'Pennsylvania Phase 3 Chesapeake Bay Watershed Implementation Plan' (Phase 3 WIP). Each participating district (York and Lancaster) in this initial phase was allocated \$1,250,000 in FY 2019-20 for the implementation of the CEG Program within their county

Phase 2 of the CEG implementation expanded the program into Franklin and Cumberland Counties which are Tier 2 counties under the Phase 3 WIP. This expansion of the program into Tier 2 counties was funded through a "subaward" from DEP under Pennsylvania's federal Chesapeake Bay Implementation Grant (CBIG). Both Franklin and Cumberland Counties received \$1,154,000 to begin implementing the CEG program within their counties. Funding for this second phase also allowed the Commission to enter into a public private partnership (PPP) with Lancaster Farmland Trust to demonstrate the CEG Program principles in Salisbury Township, Lancaster County. This PPP was also funded at \$1,154,000 through the CBIG subaward.

As a part of the approval of the FY 2020-21 Nutrient Management Program budget on January 21, 2021, the Commission allocated an additional \$2.0 million for CEG funding received for fiscal year 2020-21 (FY2020-21). Commission staff have engaged in conversations with the four county conservation districts (Lancaster, York, Cumberland and Franklin) currently implementing the CEG Program and with several other Tier 2 counties (Bedford, Centre and Lebanon) to determine the potential distribution of \$2.0 million funds allocated to the program in FY2020-21.

For existing participating conservation districts, program staff requested information from the conservation district on their current commitments and expenditures of allocated funds to approved CEG applications and projected commitment of funds to anticipated eligible applications/project for approval in the next 6 to 8 months.

For Tier 2 counties currently not participating in the CEG Program, staff petitioned interest in participation in the CEG Program from Bedford, Centre and Lebanon Conservation Districts requesting each district assess and evaluate agricultural producer interest, need and readiness for implementation of best management practice projects on agricultural operations in their counties. Each of these counties responded with positive interest to participate in the CEG Program

Proposed CEG Fund Allocation Strategy: Based on these conversations, Commission program staff have developed a basic strategy for consideration for the distribution of available funds and the potential expansion of the CEG Program to other Tier 2 counties (and eventually Tier 3 and others) as funding becomes available. This strategy would establish the basis for allocation of funds in the following manner:

- 1) CEG funding will continue to be prioritized, consistent with the enabling legislation, based on the county's "Tier" classification in the Phase 3 WIP.
- 2) As additional state and federal funds become available, priority consideration will be given to funding participating conservation districts that: a) have demonstrated the ability to consistently commitment and expend CEG funds allocated in a timely fashion for eligible CEG applications; and b) can reasonably document a projected commitment of CEG funds to eligible applicants/projects for approval in the next 6 to 12 months.
- 3) As state and federal funding allows, the Commission will consider the expansion of the CEG Program into other counties (Tier 2, 3 and others) based on: a) their demonstrated need for agricultural BMPs as documented in their County Action Plan (CAP) or other similar planning document; b) other state and federal grant funds currently available within the county; and c) demonstration of agricultural producer interest and readiness (i.e. project planning and design activities are underway or completed; projects are ready for construction) for implementation of best management practice projects on agricultural operations in their counties.

This proposed strategy, if adopted by the Commission, would function as the basis for program staff to develop current and future recommendation for allocation for funding made available to the CEG program in any given fiscal year.

Commission staff continues to gather the most current information from participating conservation districts (Cumberland, Franklin, Lancaster and York), as well as information from other Tier 2 Counties (Bedford, Centre and Lebanon), and will make specific recommendations for additional FY 2020-21 CEG at the March 9th meeting.



COMMONWEALTH OF PENNSYLVANIA
STATE CONSERVATION COMMISSION

DATE: March 1, 2021

TO: Members,
State Conservation Commission

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

FROM: Johan E. Berger, Conservation Program Specialist
Financial Administration, Policy, Certification & Conservation District Programs

RE: Request for designation of allocated FY2020-21 CDFAP Supplemental funds to Reserve Accounts - Clearfield County Conservation District and Susquehanna County Conservation District.

Action Requested:

Approval of requests from the Clearfield County and Susquehanna County conservation districts for the designation of FY2020-21 CDFAP Supplemental allocated funds to ‘Scholarship Program’ or ‘Building Fund’ reserve accounts as noted in each respective request.

Background:

The State Conservation Commission (Commission), through the *Conservation District Fund Allocation Program Statement of Policy*, created the opportunity for a conservation district to designate funds allocated by the Commission to ‘reserve accounts’ for certain administrative and programmatic functions of the district. Examples of designated uses for reserve accounts include: scholarship programs, employee separation costs and building fund/capital improvement projects. Designation of CDFAP funds to ‘reserve accounts’ must be approved by the Commission

The Commission recently received two (2) applications for designation of FY2020-21 CDFAP Supplemental funds to ‘reserve accounts’ from the Clearfield County Conservation District (Clearfield CCD - Attachment 1) and the Susquehanna County Conservation District (Susquehanna CCD - Attachment 2).

Clearfield County Conservation District Request:

The Clearfield CCD requests to designate \$20,000 in allocated FY2020-21 CDFAP Supplemental funds to supplement the District’s W. G. "Turk" Jones Memorial Trust Fund/Claude Schickling Foundation scholarship program. The Clearfield CCD Board of Director’s acted to designate the FY2020-21 CDFAP funds at its February 11, 2021 public meeting.

The scholarship program is supported by the W. G. "Turk" Jones Memorial Trust Fund/Claude Schickling Foundation provides annual scholarships to Clearfield County residents/students enrolled in a post-secondary institution or college in an environmental field relating to conservation, forestry, or agriculture.

The W. G. "Turk" Jones Memorial Trust was established in 1982 in memory of Conservation District Director W .G. "Turk" Jones. Mr. Jones was often referred to as a modern day "Johnny Apple Seed" because he devoted much of his life to planting trees on strip-mined spoil banks.

The Claude Schickling Foundation was started in 1999 in honor of Mr. Claude Schickling. Mr Schickling was the driving force in forming the Clearfield CCD in 1963 where he also served as a former Associate Director.

Since the creation of the trust and foundation funds, the Clearfield CCD has provided scholarships through these investments to provide these scholarships each year. Each year the District strives to provide 3 scholarships, but some years there has only been enough to provide one or two. This reserve will ensure that we will be able to give standard scholarships for years to come.

Susquehanna County Conservation District Request

The Susquehanna CCD requests to designate \$103,855.07 in allocated FY2020-21 CDFAP Supplemental funds into an existing 'Building Reserve Account'. The Susquehanna CCD Board of Director's acted to designate the FY2020-21 CDFAP Supplemental funds at its February 18,2021 public meeting.

At its March 17, 2015, public meeting, the Commission approved the creation of a 'Building Reserve Account' for Susquehanna CCD. The approved request placed \$108,254 of UGW funds in a reserve account for a new office building project. Subsequently UGW funds from FY2015-16, FY2016-17, FY2017-18, FY2018-19 and FY2019-20 allocations, totaling \$423,878, were requested by the Susquehanna CCD for designation to the Building Reserve account and approved by the Commission. The building project is complete with the exception of some exterior property improvements that were planned for completion in 2020 including parking lot expansion and the construction of a pavilion adjacent to the office building. Those projects are currently under construction or planned for construction and completion in 2021. The Susquehanna CCD would also like to utilize a portion of the requested reserve funds for reduction of mortgage obligations from the completion of the building project

Recommendation:

Staff recommends approval of the Clearfield CCD's request to designate \$20,000 to its 'Scholarship Reserve Account' to support the District's scholarship program and the Susquehanna CCD to designate \$103,855.07 to a 'Building Reserve Account' for completion of several residual property improvement projects and mortgage obligations associated with building construction.

Attachments (2)

**Proposed Reserve Account
using SCC Allocated UGW Funds**

District Name ___ Clearfield County Conservation District ___

Date Board took action on creating this proposed account: _____
(Please provide a copy of district board minutes)

Name of Proposed Reserve Account: _Scholarship Fund Account_____

Purpose/description of account and the overall project:

To provide annual scholarships to Clearfield County residents who are enrolled in an environmental course study. Over the years, CCCD has provided scholarships through investments that were set up by environmental stewards. It is stated that we use the interest, if any, to provide these scholarships each year. Each year the District strives to provide 3 scholarships, but some years there has only been enough to provide one or two. This account will ensure that we will be able to give standard scholarships for years to come. CCCD has been very fortunate to not only give scholarships to those interested in the environment, but to be able to employ and have on current staff one of those recipients.

Length of time you expect account to remain active: __Permanent_____ (ex. 1 yr, 2 yr, permanent)

Scholarship Accounts

Does your district have an established Scholarship policy? __No_____ if yes, please attach

We have an application that I will attach

Separation Accounts

Do you have a district policy in regard to leave payout when staff retires or leaves district employment? _____
If yes, please attach.

Do you expect staff retirements in the next 5 years? _____ **If so how many?** _____

Other Type of Account: (Please describe)

Fiscal management policy relating to the account:

How will you document expenditures in the account: ___Through the use of QuickBooks_____?

Will the board take action on each transaction: __No, only major transactions_____?

Who will have signature authority on the account: ___District Manager and the Board of Directors___(ex. Manager, chair)

Expected Size of Account: ___Start at \$20,000_____

Will these funds be in an interest bearing account? ___Yes_____

Will this account be replenished and if so how: _Yes, with interest from our current investments (depending on market change per year) ___?



Clearfield County Conservation District

6395 Clearfield Woodland Highway, Suite 2 - Clearfield, PA 16830

CCCD BOARD MEETING MINUTES

February 11, 2021

The Board of Directors met in regular session on Thursday, February 11, 2021, at the Clearfield County Conservation District Office, 6395 Clearfield Woodland Highway, Suite 2, Clearfield, PA 16830. Chairman Mike Gill called the meeting to order at 9:01 am.

BOARD MEMBERS PRESENT: Mike Gill, Tyler Hicks, Mike Hollabaugh, Donald Foster, Larry Crittenden, Elizabeth Wisor and Commissioner Tony Scotto.

ASSOCIATE MEMBERS PRESENT: Bill Clouser and future Associate Director Curtis Chambers

STAFF MEMBERS PRESENT: Willie Null, Fred Berry, Nick Hepfl, Mark Lyons, and Chris Hazi. Kelly Williams and Janice Stephenson were present via Zoom.

COOPERATING AGENCY MEMBERS PRESENT: Jaci Kerstetter, DEP, was present via Zoom.

PUBLIC COMMENTS:

Susie Peters and Wade Jodun of Clinton County observed via Zoom.

REPORTS FROM THE STAFF:

Chairman Mike Gill thanked former Chairman Don Foster for his service to the District. He also praised Willie and staff for accomplishments obtained during the past, difficult year, and noted assets purchased by the District, including a new truck and two planters.

Staff written reports were provided to the board and will be included with the minutes report. Tony asked Fred regarding process for noncompliance. Kelly informed the board of a new \$2,000 education grant received from PACD which we will use to purchase a Flood Plain Model. Nick added that the District purchased a GreenSeeker sensor, which is used to gauge cover crops to determine the amount of nitrogen available to future crops.

REPORTS FROM COOPERATING AGENCIES:

Jaci spoke of items from her DEP 'Talking Points', which are filed with the minutes. She also noted the Drone Policy was approved.

APPROVAL OF MINUTES AND TREASURER'S REPORT:

The Minutes of the January meeting were unanimously approved to be filed; motioned by Larry Crittenden and seconded by Tyler Hicks. The January Treasurer's Report will be filed for audit; motioned by Mike Hollabaugh, seconded by Larry Crittenden, unanimously approved.

AGENDA ITEMS:

- The Board unanimously approved the 2021 Board Committees/Members. Motioned by Larry Crittenden, seconded by Tyler Hicks.
- The Board unanimously approved the cancellation of the Awards Banquet in March due to the Coronavirus. Motioned by Don Foster, seconded by Larry Crittenden.
- The Board unanimously approved naming Joe Kendrick, Jr. as an Associate Director. Motioned by Mike Hollabaugh, seconded by Don Foster.
- The Board unanimously approved naming Curtis Chambers as an Associate Director. Motioned by Tony Scotto, seconded by Larry Crittenden.
- The Board unanimously approved motion by the QAB to accept the proposed 2021 Dirt & Gravel contracts.
- The Board unanimously approved the motion by the QAB to accept the proposed 2021 Low Volume contracts. Mike Hollabaugh abstained from the vote.
- The Board unanimously approved using \$20,000 of the Gas well Funds just released from the State to open a reserve account to be used for future scholarships, and the permanent account will be supplemented and added to from District investments. Motioned by Larry Crittenden, seconded by Tyler Hicks.
- The Board unanimously approved using the balance of the Gas well Funds, \$6,042, for holding rain barrel workshops, which will be supplemented by District funds. Motioned by Don Foster, seconded by Mike Hollabaugh.
- The Board unanimously approved the appointment of Mike Hollabaugh for a three year term as representative to Headwaters Council Board. Motioned by Don Foster, seconded by Larry Crittenden.

INFORMATIONAL ITEMS:

- As Watershed Specialist, Kelly Williams will continue to serve as delegate to WPCAMR Board.
- New signature cards were signed for 2021 for District bank accounts.
- Nick invited the Board to join the next Countywide Action Plan meeting, highlighting Agriculture. The meeting will be held at 1 p.m. February 16, and can be joined at the District office or via Zoom.

The meeting adjourned at 10 a.m., motioned by Larry Crittenden and seconded by Tyler Hicks, with all in favor.

The next board meeting will be held at 9 a.m. March 11, 2021 at the Clearfield County Conservation District, 6395 Clearfield Woodland Highway, Suite 2, Clearfield, PA 16830.

**Proposed Building Reserve Account
using SCC Allocated UGW Funds**

District Name Susquehanna

Date Board took action on creating this proposed account: 2/18/2021
(Please provide a copy of district board minutes)

Name of Proposed Reserve Account: Building Improvements

Purpose/description of account and the overall building project:

Parking Lot expansion, Pavillion, Principal Mortgage Payments
Interior Blinds

Length of time you expect account to remain active: 1 year (ex. 1 yr, 2 yr, permanent)

Who owns the property: SECD

If the property is not owned by the District, how long of a lease do you have: NA

Will the District have a mortgage and how long will it be for after the building is complete: yes - 8 yrs

Fiscal management policy relating to the account:

How will you document expenditures in the account: tracked through QuickBooks

Will the board take action on each transaction: Yes

Who will have signature authority on the account: Chair, Vice Chair, Treasurer, Manager (ex. Manager, chair)

Expected Size of Account: 103,855.07

Will this account be replenished and if so how: NA



SUSQUEHANNA COUNTY
CONSERVATION DISTRICT

Conserving Natural Resources for Our Future

89 Industrial Drive, Montrose PA., 18801

Phone: 570-782-2105

February 23, 2021

RE: Reserve Funds Recap

Good Morning,

As of December 31, 2020, reserve funds that were granted in the past to the Susquehanna County Conservation District have been depleted and were used for finishing the new construction of the conservation district building, property improvements, principal mortgage payments, educational events, landscaping and driveway paving.

The reserve funds helped the district tremendously and we are grateful to have been able to use the funds toward the above listed items.

Yours in Conservation,

Jennifer Ramey
District Manager
Susquehanna County Conservation District
89 Industrial Drive
Montrose, PA 18801
(570) 782-2105

SUSQUEHANNA CONSERVATION DISTRICT

Monthly Board Meeting

DATE: February 18, 2020

START TIME: 9:00 A.M.

Zoom meeting

Attendance

Directors- Lillian Theophanis, Robert Fearnley, Jack McKee, Brian Severcool,
Bill Bayne and Doug Wood

Staff- Jennifer Ramey, Adrian Gregory and Nathan Harpster

Agency- Shane Kleiner

- Call to Order-Lillian called the meeting to order at 9:05am
- Pledge to the Flag
- Comments from the Public - none
- Agency Reports-
 - DEP- Written and oral report given by Shane Kleiner
 - NRCS- written report

Action Items

- Action on previous meeting minutes - Brian made a motion to approve with corrections of Shane swearing in of Directors. Bill seconded. Motion approved.
- Treasurer's Report- Bill made a motion. Jack seconded. Motion approved.
- Review and approval of monthly expenses- Brian made a motion. Bill seconded. Motion approved.
- Renewal Astra Insurance- Bill made a motion. Doug seconded. Motion approved.
- Proposed SCC Allocated UGW Funds- Brian made a motion to allocate funds stated on the Supplemental Allocation Worksheet as follows: \$2016.93 for the manager position, \$50,000 for General Administrative Support and \$103,855.07 to go into a reserve account for building improvements. Bill seconded. Motion passed.
- Bennett's Growing Greener Grant- Brian made a motion that due to the past and present conditions, lack of compliance, and resistance from the landowner the district will discontinue activity at this time as it relates to this Growing Greener Project. Jack seconded. Motion approved.
- Summer Intern- Brian made a motion to advertise for the summer intern position while following safety protocols due to the pandemic. Doug seconded. Motion passed.

Informational items

- Commissioner Director Report - None
- Nominating Organization Report-
 - Forest Landowners – Winter tree hike to take place 02/21/2021 at Lusiana Park Trailhead in Lanesboro.
- Committee Reports - None
- District Manager Updates

- The district was awarded funding of the Nonpoint Source Pollution Prevention Mini-grant Program in which we will use towards Manure Management Workshops.
 - CAP is moving forward with RFP and 5 bids were received. A conference call will be held 02/19/2021 with the District Managers from the partnering districts to go over the proposals received and make a recommendation who to hire. Lackawanna County board of directors will take the recommendation of the three managers vote on who to hire and make a motion at their Board meeting on 02/25/2021.
 - Annual report is in the works and should be finalized in the next few weeks.
- Correspondences - Reviewed
 - Staff Reports - Reviewed
 - Comments from Public- None
 - Adjourn- Brian made a motion at 10:30 to adjourn. Bill seconded. Motion approved.



COMMONWEALTH OF PENNSYLVANIA
STATE CONSERVATION COMMISSION

March 3, 2021

To: Members
State Conservation Commission

From: Karl G. Brown
Executive Secretary

RE: Conservation District Advisory Committee (CDAC) Appointments

On January 22, 2020, the State Conservation Commission approved a proposal for the establishment of the Conservation District Advisory Committee (CDAC) and appointments of conservation district staff and board of directors as members.

The CDAC is a standing "conservation district advisory committee" to advise the Commission on the review and updating of policies affecting conservation district operations and management. The committee would also be available as a forum to discuss other issues or concerns of districts with contracted and delegated programs, if the agencies administering those programs would choose to utilize this committee for that purpose. Since the creation of the CDAC, several policies concerning conservation district programs and operations have been vetted through the committee and presented to the Commission for consideration and approval.

The following Conservation District directors and staff were appointed as CDAC members beginning January 2020 with the following length of initial term:

<u>Region</u>	<u>CD Director</u> (County)	<u>Initial Term</u>	<u>CD Staff</u>	<u>Initial Term</u> (County)
NW Region	John Kolojechick (Venango)	(1-year term)	Doug Beri (Indiana)	(3-year term)
NC Region	Joseph Kendrick (Clearfield)	(2-year term)	Erica Tomlinson (Tioga)	(1-year term)
NE Region	Chuck Gould (Monroe)	(3-year term)	Michelle Long (Pike)	(2-year term)
SW Region	VACANT	(1-year term)	Todd Thornburg (Washington)	(3-year term)
SC Region	Dr. Dennis Johnson (Huntingdon)	(2-year term)	Dean Druckenmiller (Berks)	(1-year term)
SE Region	VACANT	(3-year term)	Chris Strohmaier (Chester)	(2-year term)
	Ron Kopp	SCC Member at Large		
	Linda Mackey	CDFR Advisor		
	Brenda Shambaugh	PACD Advisor		
	Denise Coleman	NRCS Advisor		

John Kolojejchick, District Director for the Venango Conservation District, Erica Tomlinson, District Manager for Tioga County Conservation District and Dean Druckenmiller, District Manager for Berks County Conservation District terms expired as of January 31, 2021. Two director vacancies in the Southwest and South East regions were not filled when initial appointments were made. Erica Tomlinson and Dean Druckenmiller were reappointed for another 3-year term by action of the State Conservation Commission during its January 19, 2021 public meeting. John Kolojejchick declined nomination for re-appointment.

Commission staff requested nominations from conservation districts and DEP field staff for individuals to serve on the CDAC for the three vacancies in the Northwest, Southwest and Southeast regional conservation district director positions.

The following nominations are presented to the Commission for its consideration and appointment:

District Director:

SE Region	No nominee at this time	(2-year term)
NW Region	Amber Rendulic (Crawford)	(3-year term)
SW Region	John Scott (Allegheny)	(2-year term)

Appointments approval by the Commission will be effective retro-active to January 2021.



COMMONWEALTH OF PENNSYLVANIA
STATE CONSERVATION COMMISSION

Date: February 25, 2021

To: Members
State Conservation Commission

From: Karl G. Brown, Executive Secretary

RE: 2021 Conservation District Director Appointments

As of February 25 2021, Chief Clerks from 60 counties (91% of all counties) have submitted their county's list of Conservation District Director appointments for 2021 to the State Conservation Commission. Those counties noted below with an asterisk are those counties where appointments have not yet been received by the Commission. Reminder letters will be mailed to those counties that have not submitted their director appointments to the Commission.

- | | | |
|----------------|-----------------|--------------------|
| 1. Adams | 25. Erie | 49. Northumberland |
| 2. Allegheny* | 26. Fayette | 50. Perry |
| 3. Armstrong | 27. Forest | 51. Pike |
| 4. Beaver | 28. Franklin | 52. Potter* |
| 5. Bedford | 29. Fulton | 53. Schuylkill |
| 6. Berks | 30. Greene | 54. Snyder |
| 7. Blair | 31. Huntingdon | 55. Somerset |
| 8. Bradford | 32. Indiana | 56. Sullivan |
| 9. Bucks* | 33. Jefferson | 57. Susquehanna |
| 10. Butler | 34. Juniata | 58. Tioga |
| 11. Cambria | 35. Lackawanna* | 59. Union |
| 12. Cameron | 36. Lancaster | 60. Venango |
| 13. Carbon | 37. Lawrence | 61. Warren |
| 14. Centre | 38. Lebanon | 62. Washington |
| 15. Chester | 39. Lehigh* | 63. Wayne |
| 16. Clarion | 40. Luzerne | 64. Westmoreland |
| 17. Clearfield | 41. Lycoming | 65. Wyoming* |
| 18. Clinton | 42. McKean | 66. York |
| 19. Columbia | 43. Mercer | |
| 20. Crawford | 44. Mifflin | |
| 21. Cumberland | 45. Monroe | |
| 22. Dauphin | 46. Montgomery | |
| 23. Delaware | 47. Montour | |
| 24. Elk | 48. Northampton | |

MEMORANDUM

TO: State Conservation Commission
FROM: Joel Semke – REAP Coordinator
SUBJECT: Proposed Changes to the FY 2021 REAP Program

Every year the Commission reviews and updates the REAP Program Guidelines and solicits input from partners on how to improve the program. Listed below are several ideas that have been suggested by staff or other individuals. The changes range from minor revisions that are meant to improve the administration of the program to major changes that address what is eligible for REAP tax credits.

Listed below are proposed changes for the FY2021 REAP Program Guidelines. The proposals are still in the development stage and staff is soliciting input on the items. In addition, staff welcomes input on any other proposed changes that are not included below.

Specific recommendations regarding the proposed items listed below and any addition items of concern will be presented to the Commission during the April 2021 SCC conference call. The proposed changes, upon finalization (and subject to legal review), will be incorporated into the 2021-22 REAP Guidelines and Application packet that will be presented to the Commission for approval at the May 2021 Commission meeting.

1. Cover Crops

The 2019 PA Farm Bill enabling legislation authorized the Commission to grant REAP tax credits at a 90% reimbursement rate for a select list of practices in any watershed with a Total Maximum Daily Load (TMDL). Proposed changes for FY 2021 include:

- a. Providing a 90% REAP tax credit for cover crop rollers to incentivize “planting green”;
- b. 90% REAP tax credit for multi-species cover crop;
- c. 90% for all cover crops – with a cap on the eligible costs for single-species crop (forage);
- d. Development of a sample multi-year buffer maintenance agreement for applicants to use with contractors.

2. Eligibility of Previously Completed Projects

The following proposals would be added to the REAP Guidelines to develop a deadline by which applicants must apply for a previously completed project.

- a. A 3-year deadline from date of purchase for all eligible equipment. Currently, equipment that is purchased new is eligible for REAP credits 7 years from the date of purchase. Please note that the current REAP lifespan of new equipment would remain 7-years.

- b. A 3-year deadline from the date of completion/certification for all previously constructed BMPs. The REAP lifespan of the practice would remain the same as it currently is.

3. Miscellaneous Administrative Changes

Here are a few minor changes that are under consideration for FY 2021 REAP Program Guidelines

- a. Pennsylvania Department of Revenue has requested a few revisions to the first page of the application to better align with their data systems.
- b. Guidelines regarding waste storage facilities for animal expansions should be better defined.
- c. Provide more information regarding sponsorship to the guidelines and application packet.
- d. Provide more information regarding year-to-year use of REAP credits in the guidelines and application packet.
- e. Clarify guidelines regarding submission of application, receipts, and/or certification information directly from consultants.

March 2, 2021

To: Members
State Conservation Commission

From: Karl G. Brown
Executive Secretary

RE: DGLVR Annual Summary Report Update

Additional information pertaining to this agenda item will be provided at our March 9, 2021 Commission Meeting.

March 2, 2021

To: Members
State Conservation Commission

From: Karl G. Brown
Executive Secretary

RE: Chesapeake Bay Program Update

Additional information pertaining to this agenda item will be provided at our March 2, 2021 Commission Meeting.



**COMMONWEALTH OF PENNSYLVANIA
STATE CONSERVATION COMMISSION**

DATE: February 18, 2021

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 January / February 2021.

For the months of January and February 2021, staff and delegated conservation districts have:

1. COVID-19:
 - a. All staff working remotely and assisting CD and other agencies. Normal work functions occurring.
2. Odor Management Plans:
 - a. 9 OMPs in the review process
 - b. 13 OMPs Approved
 - c. 0 OMP approvals Rescinded
3. Managing twelve (12) enforcement or compliance actions, currently in various stages of the compliance or enforcement process.
4. Continue to assist Legal as we work thru three (3) active Environmental Hearing Board appeals for various plans or permits. Additionally assisted DEP with a Hearing on Food Processing Residuals.
5. Continue to daily answer questions for NMP and OMP writers, NMP reviewers, delegated Conservation Districts, and others.
6. Assisted DEP with various functions and as workgroup members in Federal and State settings for the Chesapeake Bay Program.
7. Coordinate / Conduct / and Provided support for an Act 38 Deeper Dive, 9,000-gallon application rule workgroups.

8. Started to make edits, off comments received, to the NM Technical Manual and Nutrient Management and Manure Management Administrative Manual.

DATE: February 18, 2021
TO: Members
 State Conservation Commission
FROM: Karl J. Dymond
 State Conservation Commission *KJ Dymond*
SUBJECT: March 2021 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 (OMPs) 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 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 January 2021 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 February 18, 2021.

The table below summarizes approved plans grouped by the Nutrient Management Program Coordinator areas.

	Central	NE/NC	SE/SC	West	Totals
2009	7	6	28	1	42
2010	5	7	25	2	39
2011	10	12	15	2	39
2012	9	17	16	2	44
2013	10	11	38	3	62
2014	13	16	44	2	75
2015	15	15	61	2	93
2016	19	16	59	5	99
2017	25	24	44	3	96
2018	14	13	40	1	68
2019	12	11	14		37
2020	9	11	41	1	62
2021	2	3	8		13
Total	150	162	433	24	
Grand Total					769

As of February 18, 2021, there are seven hundred and sixty-nine **approved** plans and/or amendments, nine plans have been **denied**, twelve plans/ amendments have been **withdrawn** without action taken, eighty-two plans/ amendments were **rescinded**, and nine plans/ amendments are going through the **plan review process**.

OMP Actions Status Report

Action	OMP Name	County	Municipality	Species	AEUs	OSI Score	Status	Amended
1/12/2021	Garman, Lester N	Perry	New Bloomfield Twp	Broilers	100.37	36.9	Approved	
1/12/2021	Martin, Adam S Jr – Martin Family Farm	Berks	Bethel Twp	Broilers	98.70	47.4	Approved	A
1/12/2021	Martin, Kenton – K-2 Farms	Lancaster	Elizabeth Twp	Turkey	161.00	45.6	Approved	
1/12/2021	Weiler Creek Farm, LLC – Bethel Farm	Berks	Bethel Twp	Broilers	273.60	55.7	Approved	
1/12/2021	Ziegler, Nelson	Lebanon	N Annville Twp	Broilers	250.20	25.6	Approved	
1/15/2021	Musser, Brian L & Amy – Poultry Farm	Schuylkill	Washington Twp	Broilers	213.95	41.9	Approved	A
1/26/2021	Petersheim, John S – W Hernly Road Farm	Lancaster	Rapho Twp	Layers	0.00	42.5	Approved	
2/4/2021	Hissong Farmstead Inc – RK Farm	Franklin	Peters Twp	Cattle	0.00	23.8	Approved	
2/4/2021	Hissong Farmstead Inc – Units 1 & 2	Franklin	Montgomery Twp	Cattle	1329.00	58.2	Approved	A
2/4/2021	Newswanger, Eric	Lebanon	Union Twp	Broilers	385.15	37.3	Approved	A
2/4/2021	Silver Springs Ranch, LLC	Wyoming	Monroe Twp	Horse	149.60	25.5	Approved	
2/16/2021	Beachel, Denis – Marr Farm	Montour	Limestone Twp	Turkey	424.85	25.7	Approved	
2/16/2021	Burkholder, Ryan – Farm Lane	Perry	Greenwood Twp	Broilers	220.38	17.8	Approved	

As of February 18, 2021



BUILDING BRIDGES

Farmers Municipalities* Citizens
Conservation Districts* Agribusiness*

To: Members February 28, 2020
 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: January - February

- Project Advisory Committee w/ SARE Poultry Pest Short Course development w/ Dr. Machtinger
 - Producer outreach to participate in the course.
- Prepare a proposal for the 2021 NFWF - Chesapeake Bay Innovative Nutrient and Sediment Reduction (INSR) Grants program to address non-point source pollution issues in the Upper Juniata watershed.
 - Meet with partners, develop budget, and complete the application.
- Prepare multi-functional riparian buffer planting for spring of 2021 at Blair CD's NatureWorksPark
- Develop signage w/ QR coding to deliver educational videos at NatureWorksPark Multifunctional Riparian Buffer
- Deliver an Urban Ag presentation for the upcoming PASA pre-conference event.
- Southern Alleghenies Planning/Development Commission - Comprehensive Economic Development committee review RFP of upcoming Recovery and Resilience grant.

Conflict Issues/Municipal Assistance

- none

Meetings/Trainings/Events

Meeting with media consultant for NatureWorksPark sign and video development January 7
 Meeting with PASA staff to prepare for Urban Ag presentation January 15
 Southern Alleghenies Planning and Development Commission CEDs meeting January 21
 Intergovernmental Stormwater Commission meeting January 21
 Grant meeting with NFWF staff -February 7
 Iowa State University Food Systems Conference – February 12
 Meeting with Blair Master Gardeners to prep for NWP buffer planting – February 15
 Penn State Extension Webinar – February 20
 NFWF – All Bay Webinar -Food Supply Sustainability – February 22
 Meeting with Windber Municipality to review Farmer Market establishment – February 22

Reports & Grant Applications

--BCCD Board Report
 --BCCD Quarterly Report
 --Prepare for upcoming NFWF grant proposals



BUILDING BRIDGES

Farmers * Municipalities * Citizens
Conservation Districts * Agribusiness

To: Members
State Conservation Commission

From: Shelly Dehoff
Agriculture/Public Liaison

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

Re: Agricultural Ombudsman Program Update

March 9, 2021

Activities: Since mid-January 2021, I have taken part or assisted in a number of events, including the following:

- Got much deeper into the details and coordination of pilot grant held by LCCD to encourage, promote and incentivize manure injection when done in conjunction with Nutrient Mgmt or Manure Mgmt plans
 - Spent time on phone with farmers and custom applicators to ask about their experiences
 - Talked with Alliance for the Chesapeake Bay re: potential assistance with finding Plain Sect farmers to try injection
 - Hosted virtual meeting with custom applicators to introduce injection incentive program/paperwork/requirements for English farmers
- Events as South Central Task Force Agriculture Subcommittee Planning Specialist
 - Hosted/facilitated February monthly Ag Subcommittee meeting virtually, including presentation on Customs Border Protection role and prevention of smuggled food and plant materials into the U.S.
 - Working with local municipal law enforcement and PA State Police to provide computer based training about handling aggressive dogs for 9-county region.
 - Finished update of “who do you call” for agricultural emergencies publication in “Visor” format; distributing in 9 county region; now working on creating/finalizing a tri-fold brochure format (same content)
 - Participated in Exercise Working Group virtual meetings in Jan/Feb
 - Provided update to full Mass Evacuation Working Group about Livestock-oriented guidance document a sub-group of the Ag Subcomm recently worked on
- Participated and recorded minutes for January and February Lancaster Co. Agriculture Council meetings (virtually)
- In addition to Mushroom Farmers of PA meetings, I started participating in Phorid Fly Action Committee (PFAC) virtual calls to stay connected with science and research related to mushroom phorid flies
- Starting to assist with Conservation Foundation of Lancaster County grant details and organizing regular meetings; spent time talking to people already involved with it, so I am prepared to fully help
- Participated in many of the PACD Staff Conference seminars
- Wrote LCCD Annual Report articles for Ombudsman and Conservation Foundation/Clean Water Consortium

Local Government Interaction: I have been asked to provide educational input regarding agriculture:

City of Lebanon—requested info about Lancaster County enforcement of County stormwater fees; discussed that Lancaster doesn’t have them, and referred them to York County which attempted a Stormwater Authority recently

Moderation or Liaison Activities: I have been asked to provide moderation or liaison assistance with a particular situation:

None currently

Research and Education Activities:

None currently

Fly Complaint Response Coordination: I have taken complaints or am coordinating fly-related issues in:

None currently