

Other Unique Components

Situation Overview:

- A. *Please detail additional areas that were part of the farm's project.* As part of the project, we needed to approximately double our herd size. We were blessed to be able to find a herd for sale with owners who were willing and able to continue taking care of the herd until the barn was complete and ready for move-in.
- B. How was the team instrumental in helping you think through available options? Some of the team members were familiar with the previous herd owners and highly recommended the acquisition because of the known herd health history. This option was preferred over buying animals (most likely heifers) from various herds and hoping that no new herd health issues would be introduced to our farm/herd.
- C. Did any of these additional components result in added profitability or a change in management style? The additional cows were required for the cash flow to work. The additional cows increased the number of calves and heifers on the farm. We remodeled the old bank barn and had to change the ages of animals that the existing pens held. Raising our own replacements helps to control introduction of herd health issues into the herd.

D. Before and After the Project:

- 48+ cows milking plus dry cows for a total of approximately 55 before the project plus heifers to equal 100 animals.
- 105+ cows milking plus dry cows for a total of 120 cows with potential to milk 120 and total up to 135 cows plus 100 heifers kept on farm with potential to sell excess heifers.
- Acres before project is 110 acres rented plus 25 acres grass rented nearby. Raised corn for silage and grain, soybeans double cropped with barley, and alfalfa for haylage/dry hay.
- After project, own 110 acres and still rent 25 acres of grass nearby. We have an agreement with a
 neighbor to haul excess manure per NMP and able to purchase corn for grain. We now double crop
 farm with corn for silage and a cereal grain silage, with approximately 10 acres of soybeans after
 direct cut barley.
- Total forage before filled a 20x60 silo with corn silage and a 8x100 bag with corn silage. Haylage filled a 20x70 structure during the year from 1st to 5th cuttings, and HMSC filled a 20x50 structure half full. Grass hay was about 60 tons.
- After the project approximately 1,600 tons of corn silage, 250 tons of small grain silage, and now 125 tons of grass hay are produced.
- Storage structures before and after 20x70, 20x60 and 20x50 silos. The use has changed for the 20*70 from haylage only to small grain silage and topped off with corn silage in the fall. The 20*60 remains corn silage. The 20x50 converted from HMSC to corn silage and/or small grain silage. In 2014, we made two ag bags of corn silage, 10 x 300 and one 8x150.

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Odor Management Plan

Prepared For:

Jeffrey Balmer

572 Millway Road Lititz, PA 17543 717-629-6601

Prepared By:

Devin Gerlach Certification #12 OMC

TeamAg Incorporated 120 Lake Street Ephrata, PA 17522 717-721-6795



Date of Plan Submission:	
Date of Plan Approval:	
Date(s) of Plan Updates (not requiring board action):	



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Planner and Operator Commitments & Responsibilities

Plan Implementation Requirements

type:	veloped to meet the requirements of the	e following programs addressing the following farm
Pennsylvania Act 38 of 2005 Co	oncentrated Animal Operation (CAO)	
Pennsylvania CAFO (Concentra	nted Animal Feeding Operation (CAFO)) program
☐ Volunteer Animal Operation (V	AO)	
Other program (explain):		
as approved in order to maintain con of listed Odor BMPs within implement	mpliance with the specific law or progrentation schedule timeframes and cond	agement Act) programs are required to be implemented ram. Implementation includes adherence to installation litions; maintenance the Odor BMPs consistent with the ed in this plan; and record keeping obligations of the
		allow access by the Commission for status reviews and roviding the operation's biosecurity protocols to the
written approval from the Commissoperator must inform the Commiss	sion confirming implementation of the sion upon completion of construction	cility addressed in this plan, the operation must receive ne plan. In order to obtain this written approval, the a activities, of their desire to begin using the new or esentative to assess the implementation of the approved
Plan Implementation Docum	mentation Requirements	
consistent with the implementation,	n require agricultural operations to ke operation and maintenance schedule are to determine the compliance status.	eep and maintain accurate records of the Odor BMPs and require agricultural operations to allow access by the
Planner Signature		
The information contained in this pla	an is accurate to the best of my knowle 8 of 2005 Odor Management Program	edge. This plan has been developed in accordance with indicated above.
Planner Name: _Devin Gerlack	1	Certification number: 12 OMC
Signature of Planner: De	n Dell	Date: 4-7-11

Please note that the Planner's Signature and above date(s) certifies that a site visit(s) was conducted to verify the criteria within the evaluation distance area, at the time of developing the plan, specifically for the odor source(s) to locate houses, businesses and public use facilities within the evaluation distance, as well as, the site land use and the surrounding land use factors, and that the plan was not merely developed from an aerial map.

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Date(s) Evaluation Distance Area Site Visit Conducted: 12-1-2010

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Operator Signature Addendum Section

Odor Mana	ngement Plan Prepared for:		
Operator's Nar	ne: Jeffrey Balmer		
Site Address:	572 Millway Road	Municipality:	Warwick Township
	Lititz, PA 17543	County: Lan	caster County
In accordance concurrence w signature requi		e operator of the agri	
(i) For s	ole proprietorships, the proprietor.		
	partnerships, a general partner.		
contain an attac	porations, a vice president or president. For chment, executed by the secretary of the corpor on is authorized to do so.		
implement the	agreement Ition I provided in this odor management plan practices and procedures outlined in the odor m ne offsite migration of odors associated with the	anagement plan in ord	
Indicate busi	ness entity type: Sole Proprietor 🗵 Partn	ership/ LP/ LLP 🗌	Corporation/ LLC
Signature of C	Operator: Juffry & Balmur erator: Jeffrey Balmer	Date	: 4/2/2011
Name of Ope	erator: Jeffrey Balmer	***************************************	
Title of Oper	ator: Owner / Operator		
.*			

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Plan Summary

A. Operation Bullimary (see Appendix 1 to view complete Operation Information)
Animal Type(s): Milk Cows
Additional AEUs (per animal type): 82 Milk Cows – 107 AEUs
AEUs per acre for the operation: 3.01
48 Milk Cows – 62
*Transferred AEUs: AEUs
*Note: "Additional AEUs" are used for determining the Odor Site Index evaluation distance area. "Transferred AEUs" are used for determining significant change of the regulated facility(ies) for plan amendments. 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, which will require a plan amendment.
B. Odor Site Index Summary (see Appendix 3 to view complete Index)
Score: 10.5
C. Odor BMP Implementation, Operation & Maintenance Schedule
Describe Odor BMPs
Describe Odor BMPs • All Odor BMPs will be maintained for the lifetime of the livestock facility unless otherwise noted.
Describe Odor BMPs
Describe Odor BMPs • All Odor BMPs will be maintained for the lifetime of the livestock facility unless otherwise noted.
Describe Odor BMPs • All Odor BMPs will be maintained for the lifetime of the livestock facility unless otherwise noted. • All employees will be instructed at least two times per year on operation and maintenance of the various
Describe Odor BMPs • All Odor BMPs will be maintained for the lifetime of the livestock facility unless otherwise noted. • All employees will be instructed at least two times per year on operation and maintenance of the various Odor BMPs listed in this plan and required documentation for each of the practices. Level I Odor BMPs to be Implemented
Describe Odor BMPs • All Odor BMPs will be maintained for the lifetime of the livestock facility unless otherwise noted. • All employees will be instructed at least two times per year on operation and maintenance of the various Odor BMPs listed in this plan and required documentation for each of the practices. Level I Odor BMPs to be Implemented List below all Level I Odor BMPs from the PA Odor BMP Reference List that are applicable to this animal operation.

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Level II Odor BMPs to be Implemented: List below all Level II Odor BMPs detailing the following:

- 1. the general construction and implementation criteria
- 2. the corresponding timeframes of when each Odor BMP will be implemented in
- 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.

Please 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.

\boxtimes	N/A (None I	Require	ed)		
	Level	II Odo	r BMP	Reg	uirem	ents

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D. Documentation Requirements

Describe what information will be documented by the Operator for each Odor BMP to ensure compliance with the plan.

Level I Odor BMP Documentation Requirements

N/A (None Required) – If N/A, the Level I Quarterly Observation Log can be deleted
 □ Level I Odor BMP Documentation Requirements:
 The Operator will complete the Level I 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 I Odor BMPs Quarterly Observation Log upon any of the following occurrences:

Level II Odor BMP Documentation Requirements

$\boxtimes N$	A (None Required) – If N/A, the Level II Quarterly Observation Log can be deleted
\Box Le	vel II Odor BMP Documentation Requirements:
	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;

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4th Quarter (October) (The operator will record observations relating to each Level I BMP on the first day (approximately) of each quarter of the year). page 6 SCC Odor Management Program Technical Manual / December 3, 2008Act 38 of 2005, Odor Management Plan 3rd Quarter (July) YEAR NOTES (Copy This Page For Future Use) Level I Odor BMPs - Quarterly Observation Log ☐ 2nd Quarter (April) May 7, 2010 1st Quarter OMP Version 1.3 (January) DATE Select Quarter: ODOR BMP NA

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4th Quarter (October) (The operator will record observations relating to each Level II BMP on the first day (approximately) of each quarter of the year). SCC Odor Management Program Technical Manual / December 3, 2008Act 38 of 2005, Odor Management Plan Note: All Maintenance activities should be completed as soon as possible upon the observation that maintenance is needed. 3rd Quarter (July) YEAR Copy This Page For Future Use) Level II Odor BMPs – Quarterly Observation Log 2nd Quarter (April) 1st Quarter (January) List any activities here that are to be documented. OMP Version 1.3 DATE LEVEL II ODOR BMP NAME Document the following activities: Select Quarter: ACTIVITY N/A



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Appendix 1: Operation Information

Ge	neral In	formation:			
Ope	rator's Nan	ne: Jeffrey Balmer			
Site	Address:	572 Millway Road	Municipa	ality: W	Varwick Township
		Lititz, PA 17543	County:	Lancast	er County
		Fa	rm Description		
Par	t A: Odo	or Source Factors			
<u>E</u> 2	kisting / N	on-Regulated Facilities Descript	ion:		
1.	Existing	Species/ Animal Types: Milk Co	ws (48) / Dry Cows (7)	/ Heifers	(22) / Calves (18)
2.	Existing	g Animal Equivalent Units per Sp	ecies or Type: Milk Co	ws - 62	/ Dry Cows – 9.1 /
	Heifers -	- 19.8 / Calves - 6.8			
3.	Site Liv	estock History (Maximum AEUs o	f Livestock at the site wit	thin the p	oast 3 years): <u>97</u>
4.	Existing	Animal Housing Facility(ies):			
	Box Stal Calf Bar Heifer /	Barn (will become calf barn) – 90° ll Barn – 55° x 20° n – 60° x 30° Calf Barn – 70° x 30° Dry Cow Barn – 100° x 40°	x 55'		
5.	Existing	Manure Storage Facility(ies):			
		Concrete Storage – 77' x 10' ular Barnyard Pit – 71' x 12' x 10'			
Pr	oposed / l	Regulated Facility(ies) (or portio	ns thereof) Description	<u>:</u>	
6.	Addition	nal Animal Types: Milk Cows			
	Addition	nal Animal Numbers: <u>82</u>			
	and Add	litional AEUs/ Type: <u>107</u>			
	$\square NA$				
	Transferr	ed Animal Types: Milk Cows			
	Transferr	ed Animal Numbers: 48			
	and Tran	sferred AEUs/ Type: 62			
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SCC Odor Management Program Technical Manual / December 3, 2008Act 38 of 2005, Odor Management Plan Note: "Additional AEUs" are used for determining the Odor Site Index evaluation distance area. "Transferred AEUs"

dete equ	rmining significant change of the regula	rmming the Odor Site thack evaluation distar ated facility(ies) for plan amendments. A sign neasured from the time of the initial plan appr	nificant change is defined as a net increase of
7	Proposed new or expanded a	nimal housing facility(ies):	
	cows. Approximately 48 of the	0' x 70') with robotic milkers will be e cows in the new barn will be transfe will be used to house additional youngs	rred from the current dairy tie stall
8	Proposed new or expanded m	nanure storage facility(ies):	
	Manure from the proposed dair	ry barn will gravity flow in two gutter	s and be temporarily collected in a
	covered reception pit/manhole	(6' x 10'). From the manhole the man	nure will be pumped into the existing
	circular concrete manure storag	ge.	
	Is a Nutrient Management progr	ram setback waiver attached? 🛛 N/A	A Yes No
Pa	rt B: Site Land Use Factors		
(I	ndicate if this Agricultural Opera	tion has any of the following status:)	
	Agricultural Security Area	Yes / No 🗌	
	Agricultural Zoning Preserved Farm	⊠Yes / No	
٥,	reserved Pallir	⊠1687 NO []	
1.		ad Use Factors ock Operations (≥ 8 AEUs) within the W) and quadrant (distance from the fa	, , , , , , , , , , , , , , , , , , , ,
	on the map in Appendix 3):		
	• In the east quadrant (1	200-1800') there is a beef operation v	with more than 8 AEUs.
2.	Distance to nearest property line	(measured from nearest corner of the	animal housing facility or manure
	storage facility to the property lin	ne): <u>100'</u>	
	f nearest property is less than 30 arm? Yes / No	0' (as indicated in "2" above), is this	neighboring property a Preserved
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Appendix 2: Operational Maps

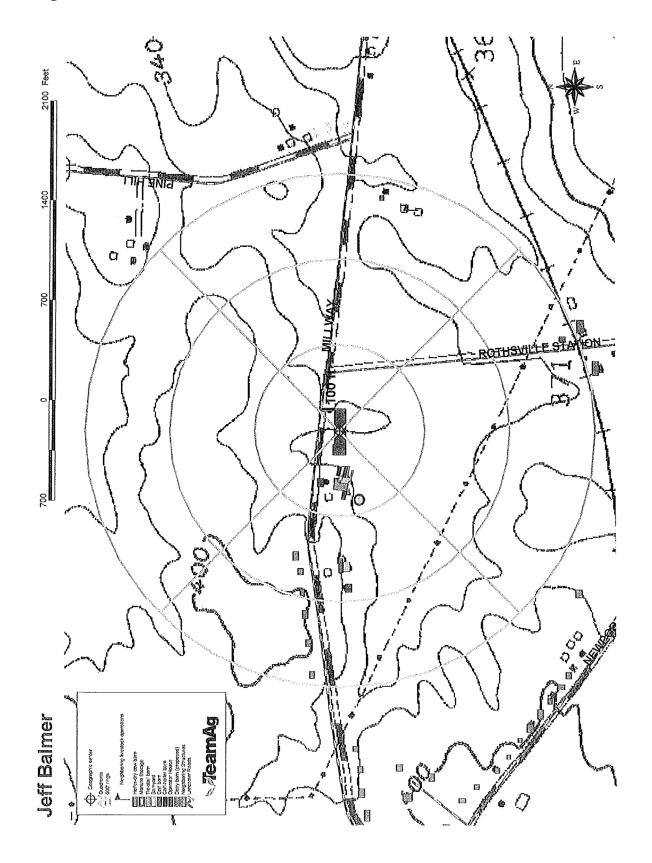
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Odor Management Plans must include a topographic map drawn to scale, identifying: the land included in the plan; operation boundaries; location of existing and proposed animal housing and manure storage facilities on the operation; location of neighboring homes, businesses, churches and public use facilities within the evaluation distance; location of the various map quadrants to prography (as indicated by the topographic lines); concentric circles drawn at 600° intervals for the entire evaluation distance; identification of the various map quadrants to include North, South, East and West; the distance to nearest property line from the nearest facility; road names within the evaluation distance area; all neighboring facilities and public use facilities that are being given credit for the Intervening Topography and Vegetation Factor; and a map legend. Multiple maps may be provided to facilitate specific details.

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Appendix 3: Plan Evaluation – OSI

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Operator Name: Planner Name: Type of Operation: Number of AEUs Proposed: Evaluation Distance:	Devine (Devine)	V Balmer Certaen 210 167 1800			1
Part A: Odor Source Factors					2005 750
Facility Size (AEUs) covered $<200 = 2 \text{ points}$	200-499 = 4 points	500-749 = 6 points	750-999 = 8 points	1000+ = 10 points	
Site Livestock History (AEUs) Zero = 12 points	1-49 = 9 points	50-199 = 6 points		500+=0 points	, (o)
Swine, Ducks = 15 points	Layers, Veal, Pullets, Cattle = 12 points	Broilers, Turkeys, Horses = 10 points	Other = Call SCC	all SCC	
In or under Manure Storage Type building = 2 points	Outdoor covered wet or dry = 3 points	Outdoor uncovered wet (crust expected) or uncovered dry = 5 points	Outdoor uncovered wet (no expected) or feedlot = 10 points	uncovered wet (no crust or feedlot = 10 points	
				TOTAL PART A	
Part B: Site Land Use Factors					
Ag Security Area	= Xes =	(-) 5 points; No =	0 points		
Ag Zoning	Yes = (= $(-)10$ points; No = 0 points	points	8)	-10
Preserved Farm) = S= (= (-)20 points; No $= 0$ points	points	(33)	0/2
				TOTAL PART B	
Part C: Surrounding Land Use Factors					
Other livestock >8AEUs within evaluation	Zero = Spointe	1 to $A = 0$ points	ζ or more = $(-\zeta)$ points	t.	
		151' to 300' = 5			
Distance to nearest property line	<150' = 10 points		>300' = 0 points		
If nearest property <300', is it preserved farmland?	Yes = (-)5 points	No = 0 points		Ä	110
Neighboring Homes	•	Total from Appendix A	<u>-</u>		5.21
Public Use Facilities		Total from Appendix B		TOTAL PART C	(0)
			•		
			FINAL ODOR	FINAL ODOR INDEX SCORE	10 5

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Appendix A: Neighboring Home Multiplication Factors

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U	2400-3000																	
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⊢	.00		0	0	0		0	0	0		0	0	0		0	0	0	N GO
U	1800-2400'																	
Ω	18(9	4	40		m	2.3	10		0.8	.	ហ		0.8	1.8	2	
H	-	m				4				0				1.5				5.8
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		1800')	(>180	s (>18	5 (>18	1800.)	(>180	s (>18	\$ (>18	1800')	(>180	s (>18	5 (>18	1800.)	(>180	s (>18	; (>18	딘
		Number (<1800')	1-5 homes (>1800')	6-20 homes (>1800')	>20 homes (>1800')	South Number (<1800')	1-5 homes (>1800')	6-20 homes (>1800')	>20 homes (>1800')	North Number (<1800')	1-5 homes (>1800')	6-20 homes (>1800')	>20 homes (>1800')	Number (<1800')	1-5 homes (>1800')	6-20 homes (>1800')	>20 homes (>1800')	TOTAL (GT)
			1. 1.	6-20	>20	Nun	1-1	6-20	>20	Num	L U	6-20	>20		1-5	6-20	>20	TOT
		East				South				North				West				

tation Factors for Homes and Public Use Facilities

Appendix C: Intervening Topography and Vegetat	д Тор	ogra	phy	and \	/ege	tat.
	<009،	1200,	1200-1800	1800-2400	2400-3000	
All Shielded	0.5	4.	.25	.25	.25	
Some Shielded	0.75	9.	.5	.5	.5	
None Shielded	1	1	Ħ	r=1	1	

Footnotes

- ¹ Number of homes, etc, in the distance/direction section.
- $^{\rm 2}$ Point value assigned to each home, etc, in the distance/direction section.
- $^{\rm 3}$ Factor from Appendix C to adjust for intervening topography and / or vegetation

⁴ Total score for the distance/direction section.

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Appendix B: Public Use Facility Multiplication Factors	A ¹ B ² C ³ T ⁴ A B C T A B C T A B	1800-	5	4	8	κ	
	⊢	1200-1800'	0	0	0	0	0
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	A		0 0 201	0	0	0	
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	\mathbf{B}^2		0 40	30	25	0 25	
	A1		0	0	0	0	認認認
		Number of:	Public Use Facilities	South Public Use Facilities	North Public Use Facilities	West Public Use Facilities	TOTAL (GT)
			East	South	North	West	

Footnotes

¹ Number of public use facilities in the distance/direction section.

 2 Point value assigned to each Public Use Facility in the distance/direction section.

 3 Factor from Appendix C to adjust for intervening topography and \prime or vegetation

⁴ Total score for the distance/direction section.

Public use facility definition - Public schools, hospitals, public nursing homes/elder care facilities and apartment buildings with greater than four dwelling units.