

# Nutrient Management Plan

For Crop Years(s)  
2012, 2013, 2014

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## ***Prepared for***

Creekside Dairy  
Jesse L. Landis  
1000 Penn Grant Road  
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717-626-9034

## ***Prepared by***

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123 Pine Hill Lane  
Lancaster, PA 17601  
717-393-0208

## **Date of Plan Submission**

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## **Date(s) of Plan Update Submissions**

(updates to approved plan not requiring board action)

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# Nutrient Management Plan Summary

Total acres reported in NMP Summary: 246.6

Crop Year(s) 2012

Whole Farm Note: \_\_\_\_\_

CMU/Field ID	Acres	Crop	Manure Group	Application Season	Application Management	Planned Manure Rate <sup>1</sup>	Starter/Other Fertilizer (lb/A)			Supplemental Fertilizer (lb/A)			Nutrient Balance (lb/A) <sup>2</sup>			Notes (Select "Yes")
							N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	
A 1	6.6	Alfalfa 1st yr	No Manure	No Manure	No Manure	0	0	0	0	0	0	210	0	0	0	
A 2	4	Corn Silage	Cow Spring	Spring	Incorporated within 2-4 days	7850 gal/A	0	0	0	93	0	0	0	-75	-102	
A 3	2.4	Alfalfa	No Manure	No Manure	No Manure	0	0	0	0	0	0	270	0	0	0	
A 4	5.9	Corn Silage	Cow Spring	Spring	Incorporated within 2-4 days	7850 gal/A	0	0	0	93	0	0	0	-75	-132	
A 5	4.7	Corn Silage	Cow Spring	Spring	Incorporated within 2-4 days	7850 gal/A	0	0	0	93	0	0	0	-75	-132	
A 6	3.9	Pasture	Dry Cows - uncollected	Grazing	Late spring through early fall	Grazing See Notes	0	0	0	94	0	0	0	-25	-81	Yes
A 7	9	Corn Silage	Heifer Fall	Early Fall	Incorporated within 3-7 days	10 ton/A	0	0	0	109	0	64	0	-67	0	Yes
A 8	3.2	Corn Silage	Cow Spring	Spring	Incorporated within 2-4 days	7850 gal/A	0	0	0	93	0	0	0	-75	8	
A 9	4.8	Corn Silage	Cow Spring	Spring	Incorporated within 2-4 days	7850 gal/A	0	0	0	93	0	38	0	-75	0	
A10	5.2	Alfalfa	No Manure	No Manure	No Manure	0	0	0	0	0	0	270	0	0	0	
A11	3.4	Corn Silage	Cow Spring	Spring	Incorporated within 2-4 days	7850 gal/A	0	0	0	93	0	118	0	-75	0	
A12	3.9	Alfalfa	No Manure	No Manure	No Manure	0	0	0	0	0	0	200	0	0	0	Yes
A13	8.3	Corn Silage	Heifer Spring	Spring	Incorporated within 2-4 days	18 ton/A	0	0	0	73	0	159	0	-110	0	
A14	10.8	Wheat/Soy beans(Wheat based yield)	Cow Fall	Early Fall	Incorporated within 3-7 days	7850 gal/A	0	0	0	0	0	46	2	-82	0	Yes
A15	5.8	Alfalfa	No Manure	No Manure	No Manure	0	0	0	0	0	0	30	0	0	0	
A16	2.4	Corn Silage	Heifer Fall	Early Fall	Incorporated within 3-7 days	10 ton/A	0	0	0	109	0	0	0	-67	-16	

<sup>1</sup> See rate calibration table (Nutrient Management Plan Summary Notes).

<sup>2</sup> Positive numbers = nutrient deficit; Negative numbers = nutrient excess

# Nutrient Management Plan Summary

Total acres reported in NMP Summary: 246.6

Crop Year(s) 2012

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							N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	
A17	18.2	Corn Silage	Cow Spring	Spring	Incorporated within 2-4 days	7850 gal/A	0	0	0	73	0	0	0	-75	-22	Yes
A18	3.6	Corn Silage	Heifer Spring	Spring	Incorporated within 2-4 days	18 ton/A	0	0	0	73	0	0	0	-110	-131	Yes
A19	4.4	Corn Silage	Heifer Spring	Spring	Incorporated within 2-4 days	18 ton/A	0	0	0	73	0	0	0	-110	-131	Yes
A20	2.9	Pasture	Pre-Fresh Heifers - uncollected	Grazing	Late spring through early fall	Grazing See Notes	0	0	0	85	0	0	0	-43	-112	Yes
A21	10.4	Corn Silage	Heifer Fall	Early Fall	Incorporated within 3-7 days	10 ton/A	0	0	0	109	0	0	0	-67	-46	Yes
A22	12.8	Wheat/Soy beans(Wheat based yield)	Cow Fall	Early Fall	Incorporated within 3-7 days	7850 gal/A	0	0	0	0	0	0	2	-82	-143	Yes
B 1	4.8	Corn Silage	Cow Spring	Spring	Incorporated within 2-4 days	7850 gal/A	0	0	0	73	0	0	0	-75	-72	
B 2	5.4	Alfalfa 1st yr	No Manure	No Manure	No Manure	0	0	0	0	0	0	220	0	0	0	
B 3	5.3	Corn Silage	Cow Spring	Spring	Incorporated within 2-4 days	7850 gal/A	0	0	0	93	0	88	0	-75	0	
B 4	5.5	Alfalfa	No Manure	No Manure	No Manure	0	0	0	0	0	0	0	0	0	0	Yes
B 5	5.6	Corn Silage	Heifer Fall	Early Fall	Incorporated within 3-7 days	10 ton/A	0	0	0	109	0	204	0	-67	0	Yes

<sup>1</sup> See rate calibration table (Nutrient Management Plan Summary Notes).

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# Nutrient Management Plan Summary

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Crop Year(s) 2012

Whole Farm Note: \_\_\_\_\_

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							N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	
B 6	5.4	Wheat/Soy beans(Wheat based yield)	Cow Fall	Early Fall	Incorporated within 3-7 days	7850 gal/A	0	0	0	0	0	66	2	-82	0	Yes
B 7	5.5	Alfalfa	No Manure	No Manure	No Manure	0	0	0	0	0	130	0	0	0	0	Yes
B 8	12.5	Corn Silage	Cow Fall	Early Fall	Incorporated within 3-7 days	7850 gal/A	0	0	0	97	0	0	0	-82	-143	Yes
B 9	3.8	Corn Silage	Cow Spring	Spring	Incorporated within 2-4 days	7850 gal/A	0	0	0	73	0	148	0	-75	0	Yes
B10	4	Wheat/Soy beans(Wheat based yield)	Cow Fall	Early Fall	Incorporated within 3-7 days	7850 gal/A	0	0	0	0	0	0	2	-82	-143	
B11	6.6	Alfalfa	No Manure	No Manure	No Manure	0	0	0	0	0	270	0	0	0	0	
B12	2.3	Corn Silage	Cow Spring	Summer	Incorporated within 2-4 days	7850 gal/A	0	0	0	73	0	148	0	-75	0	
B13	5.5	Corn Silage	Cow Fall	Early Fall	Incorporated within 3-7 days	7850 gal/A	0	0	0	97	0	0	0	-82	-143	Yes
C 1	10.7	Corn Silage	Heifer Spring	Spring	Incorporated within 2-4 days	18 ton/A	0	0	0	28	0	149	0	-110	0	
C 2	13.4	Corn Silage	Heifer Fall	Early Fall	Incorporated within 3-7 days	10 ton/A	0	0	0	144	0	174	0	-67	0	
C 3	13.7	Corn Silage	Cow Fall	Early Fall	Incorporated within 3-7 days	7850 gal/A	0	0	0	97	0	137	0	-82	0	Yes

<sup>1</sup> See rate calibration table (Nutrient Management Plan Summary Notes).

<sup>2</sup> Positive numbers = nutrient deficit; Negative numbers = nutrient excess

## Nutrient Management Plan Summary Notes

Crop Years. 2012

CMU/Field ID	Notes
A 6	Dry cow pasture grazing season is from April through October. Cows are fed and watered in the barn and have unlimited access to pasture during the grazing season. 35' manure (mechanical) application setback from stream.
A 7	100' manure application setback from stream.
A12	100' manure application setback from wellhead.
A14	100' manure application setback from wellhead.
A17	100' manure application setback from wellhead.
A18	100' manure application setback from stream.
A19	100' manure application setback from stream.
A20	Heifer pasture grazing season is from April through October. Heifers are fed and watered in the barn and have unlimited access to pasture during the grazing season. 35' manure (mechanical) application setback from stream.
A21	100' manure application setback from stream.
A22	100' manure application setback from wellhead.
B 4	100' manure application setback from stream.
B 5	100' manure application setback from stream.
B 6	100' manure application setback from stream.
B 7	100' manure application setback from stream.
B 8	100' manure application setback from stream.
B 9	100' manure application setback from stream.
B13	100' manure application setback from stream.
C 3	100' manure application setback from wellhead.

## Manure Spreader Calibration Notes

Manure Application Rate	Manure Spreader Used	Spreader Settings	Tractor Used (if applicable)	Tractor Settings (speed, gear, rpm, pto, etc.)
7850 gallons	Nuhn 6500		John Deere 8300	1.8 mph @ 1700 rpm
18 tons	Knight 8018 Pro-Twin		John Deere 8300	4.5 mph @ 1700 rpm
10 tons	Knight 8018 Pro-Twin		John Deere 8300	2.8 mph @ 1700 rpm

## Additional Nutrient Management Plan Requirements

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### Manure Management and Stormwater BMP Implementation Summary

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

Best Management Practice	NRCS Practice Code <sup>1</sup>	BMP Location	Implementation Season & Year
Heavy Use Area Protection	561	Cow Facility	Summer 2012
Animal Trails and Walkways	575	Cow Facility	Summer 2012
Animal Trails and Walkways	575	Calf & Heifer Facility	Summer 2012

### 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 will be no regular in-field stacking of manure on the operation. An emergency in-field stacking area for the calf and heifer manure has been designated in field A15 (located on Farm 1 Operator Map).

### Additional CAFO Requirements

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

Not applicable.

### **Proposed Manure Storage Description**

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

Not applicable.

### **Description of Planned Alternative Manure Technology Practices**

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

Not applicable.

### **Exported Manure Summary**

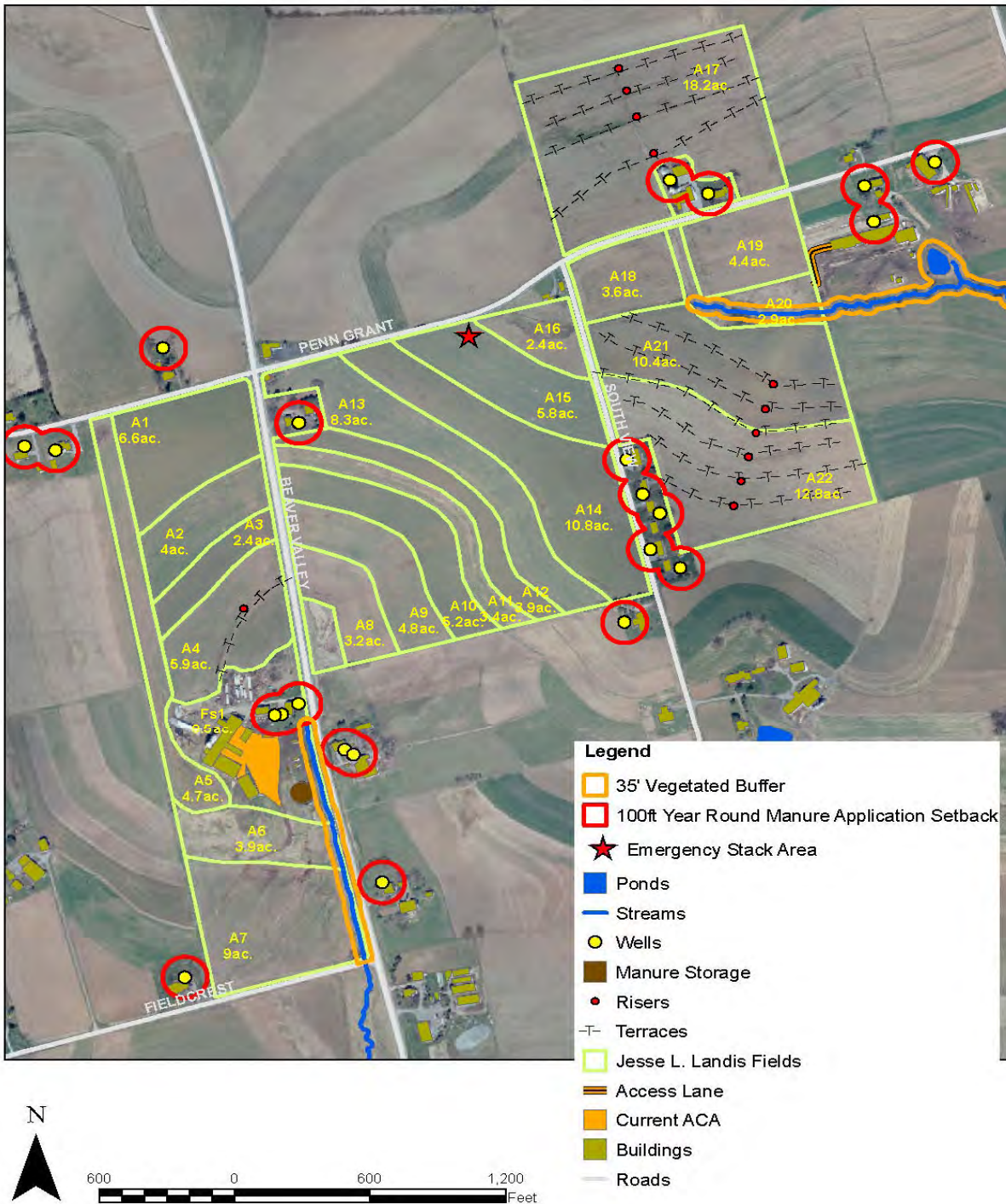
Summarize in a short paragraph the arrangements proposed for the manure to be exported from the operation. This information is described in more detail in Appendix 8 of this plan.

There is no exported manure.

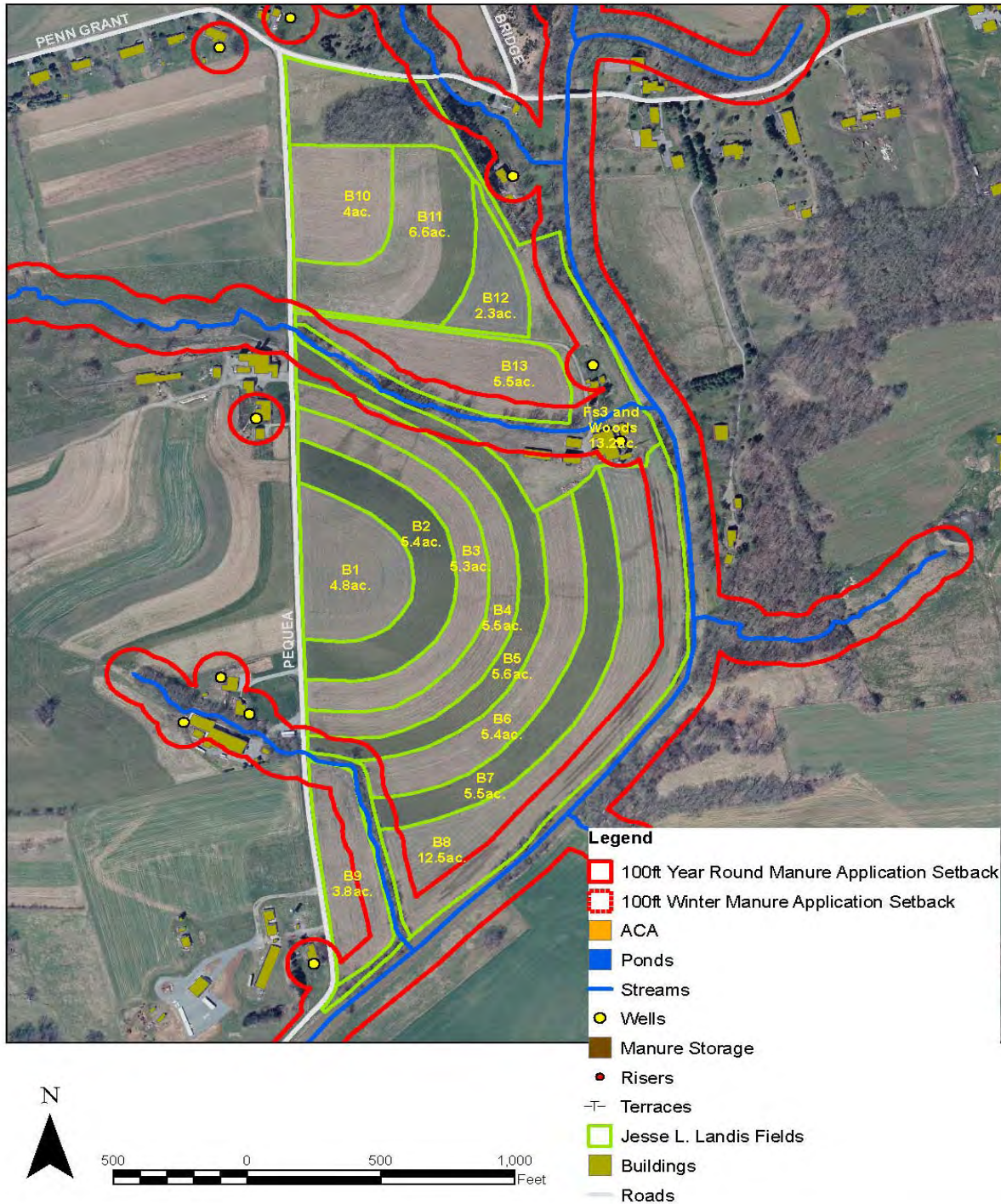
### **Operator Management Map**

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.

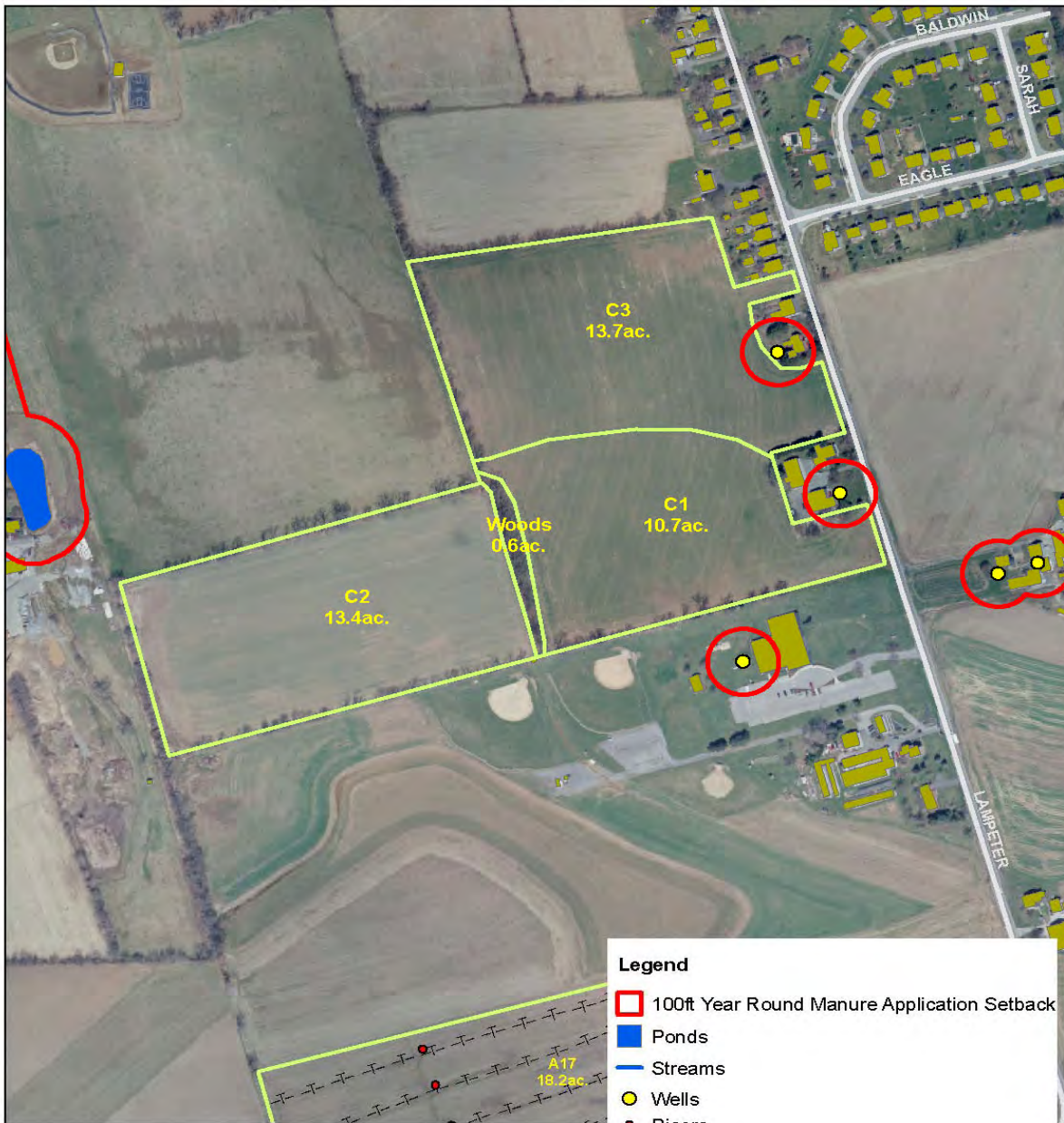
### CREEKSIDE DAIRY - FARM 1 OPERATOR MAP



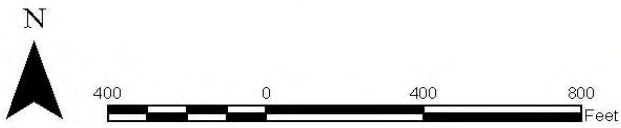
### CREEKSIDE DAIRY - FARM 2 OPERATOR MAP



### CREEKSIDE DAIRY - FARM 3 OPERATOR MAP



- Legend**
- 100ft Year Round Manure Application Setback
  - Ponds
  - Streams
  - Wells
  - Risers
  - Terraces
  - Jesse L. Landis Fields
  - Buildings
  - Roads



## Nutrient Management Plan Agreement & Responsibilities

### Plan Implementation Requirements

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

- Pennsylvania Act 38 of 2005, Select one →  CAO  VAO  
 Pennsylvania CAFO (Concentrated Animal Feeding Operation) program  
 NRCS (Natural Resources Conservation Service) 590 Nutrient Management Standard  
 NRCS CNMP (Comprehensive Nutrient Management Plan)  
 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 recordkeeping obligations of the program.

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

- 1 - Year Plan for crop year \_\_\_\_\_ (annual updates will be completed)  
 3 - Year Plan for crops years \_\_\_\_\_ **2012, 2013, 2014**

**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:**

- 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.  
 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. This plan has been developed in accordance with the criteria established for the program(s) indicated above. I affirm that I have discussed the content and implementation of this plan with the operator.

**Specialist Signature** *Thomas D. Smith*

**Date** July 25, 2011

### Operator Agreement

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

**Operator's Signature** *Jesse L. Landis*

**Date** July 25, 2011

**Operator's Title** Owner

Appendix 8  
**Importer/Broker Agreements & NBSs**

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

# Nutrient Management Plan Summary

Total acres reported in NMP Summary: 246.6

Crop Year(s) 2013

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A 1	6.6	Alfalfa	No Manure	No Manure	No Manure	0	0	0	0	0	260	0	0	0		
A 2	4	Corn Silage	Cow Spring	Spring	Incorporated within 2-4 days	7850 gal/A	0	0	0	93	0	0	0	-75	-102	
A 3	2.4	Alfalfa	No Manure	No Manure	No Manure	0	0	0	0	0	270	0	0	0		
A 4	5.9	Wheat/Soy beans(Wheat based yield)	Cow Fall	Early Fall	Incorporated within 3-7 days	7850 gal/A	0	0	0	0	0	0	2	-82	-143	
A 5	4.7	Corn Silage	Cow Spring	Spring	Incorporated within 2-4 days	7850 gal/A	0	0	0	93	0	0	0	-75	-132	
A 6	3.9	Pasture	Dry Cows - uncollected	Grazing	Late spring through early fall	Grazing See Notes	0	0	0	94	0	0	0	-25	-81	Yes
A 7	9	Alfalfa 1st yr	No Manure	No Manure	No Manure	0	0	0	0	0	100	0	0	0	Yes	
A 8	3.2	Corn Silage	Heifer Spring	Spring	Incorporated within 2-4 days	18 ton/A	0	0	0	73	0	0	0	-110	9	
A 9	4.8	Corn Silage	Heifer Fall	Early Fall	Incorporated within 3-7 days	18 ton/A	0	0	0	79	0	34	0	-121	0	
A10	5.2	Corn Silage	Heifer Spring	Spring	Incorporated within 2-4 days	10 ton/A	0	0	0	25	0	217	0	-61	0	
A11	3.4	Corn Silage	Heifer Fall	Early Fall	Incorporated within 3-7 days	18 ton/A	0	0	0	79	0	114	0	-121	0	
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A14	10.8	Corn Silage	Cow Spring	Spring	Incorporated within 2-4 days	7850 gal/A	0	0	0	58	0	148	0	-75	0	Yes
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A16	2.4	Corn Silage	Cow Spring	Spring	Incorporated within 2-4 days	7850 gal/A	0	0	0	93	0	0	0	-75	-72	

<sup>1</sup> See rate calibration table (Nutrient Management Plan Summary Notes).

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B11	6.6	Corn Silage	Cow Spring	Spring	Incorporated within 2-4 days	7850 gal/A	0	0	0	28	0	158	0	-75	0	
B12	2.3	Alfalfa 1st yr	No Manure	No Manure	No Manure	0	0	0	0	0	210	0	0	0	0	
B13	5.5	Corn Silage	Cow Fall	Early Fall	Incorporated within 3-7 days	7850 gal/A	0	0	0	97	0	0	0	-82	-143	Yes
C 1	10.7	Corn Silage	Heifer Spring	Spring	Incorporated within 2-4 days	18 ton/A	0	0	0	88	0	149	0	-110	0	
C 2	13.4	Wheat/Soy beans(Wheat based yield)	No Manure	No Manure	No Manure	0	0	0	0	50	0	149	0	0	0	
C 3	13.7	Corn Silage	Cow Fall	Early Fall	Incorporated within 3-7 days	7850 gal/A	0	0	0	97	0	137	0	-82	0	Yes

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## Nutrient Management Plan Summary Notes

Crop Years. 2013

CMU/Field ID	Notes
A 6	Dry cow pasture grazing season is from April through October. Cows are fed and watered in the barn and have unlimited access to pasture during the grazing season. 35' manure (mechanical) application setback from stream.
A 7	100' manure application setback from stream.
A12	100' manure application setback from wellhead.
A14	100' manure application setback from wellhead.
A17	100' manure application setback from wellhead.
A18	100' manure application setback from stream.
A19	100' manure application setback from stream.
A20	Heifer pasture grazing season is from April through October. Heifers are fed and watered in the barn and have unlimited access to pasture during the grazing season. 35' manure (mechanical) application setback from stream.
A21	100' manure application setback from stream.
A22	100' manure application setback from wellhead.
B 4	100' manure application setback from stream.
B 5	100' manure application setback from stream.
B 6	100' manure application setback from stream.
B 7	100' manure application setback from stream.
B 8	100' manure application setback from stream.
B 9	100' manure application setback from stream.
B13	100' manure application setback from stream.
C 3	100' manure application setback from wellhead.

## Manure Spreader Calibration Notes

Manure Application Rate	Manure Spreader Used	Spreader Settings	Tractor Used (if applicable)	Tractor Settings (speed, gear, rpm, pto, etc.)
7850 gallons	Nuhn 6500		John Deere 8300	1.8 mph @ 1700 rpm
18 tons	Knight 8018 Pro-Twin		John Deere 8300	4.5 mph @ 1700 rpm
10 tons	Knight 8018 Pro-Twin		John Deere 8300	2.8 mph @ 1700 rpm

# Nutrient Management Plan Summary

Total acres reported in NMP Summary: 246.6

Crop Year(s) 2014

Whole Farm Note: \_\_\_\_\_

CMU/Field ID	Acres	Crop	Manure Group	Application Season	Application Management	Planned Manure Rate <sup>1</sup>	Starter/Other Fertilizer (lb/A)			Supplemental Fertilizer (lb/A)			Nutrient Balance (lb/A) <sup>2</sup>			Notes (Select "Yes")
							N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	
A 1	6.6	Alfalfa	No Manure	No Manure	No Manure	0	0	0	0	0	0	260	0	0	0	
A 2	4	Wheat/Soy beans(Whe at based yield)	Cow Fall	Early Fall	Incorporated within 3-7 days	7850 gal/A	0	0	0	0	0	0	2	-82	-143	
A 3	2.4	Alfalfa	No Manure	No Manure	No Manure	0	0	0	0	0	0	270	0	0	0	
A 4	5.9	Corn Silage	Cow Spring	Spring	Incorporated within 2-4 days	7850 gal/A	0	0	0	58	0	0	0	-75	-132	
A 5	4.7	Corn Silage	Cow Spring	Spring	Incorporated within 2-4 days	7850 gal/A	0	0	0	93	0	0	0	-75	-132	
A 6	3.9	Pasture	Dry Cows - uncollected	Grazing	Late spring through early fall	Grazing See Notes	0	0	0	94	0	0	0	-25	-81	Yes
A 7	9	Alfalfa	No Manure	No Manure	No Manure	0	0	0	0	0	0	130	0	0	0	Yes
A 8	3.2	Corn Silage	Cow Spring	Spring	Incorporated within 2-4 days	7850 gal/A	0	0	0	93	0	0	0	-75	8	
A 9	4.8	Wheat/Soy beans(Whe at based yield)	Cow Fall	Early Fall	Incorporated within 3-7 days	7850 gal/A	0	0	0	0	0	0	2	-82	-64	
A10	5.2	Corn Silage	Cow Spring	Spring	Incorporated within 2-4 days	7850 gal/A	0	0	0	93	0	158	0	-75	0	
A11	3.4	Corn Silage	Heifer Spring	Spring	Incorporated within 2-4 days	10 ton/A	0	0	0	105	0	177	0	-61	0	
A12	3.9	Alfalfa	No Manure	No Manure	No Manure	0	0	0	0	0	0	200	0	0	0	Yes
A13	8.3	Corn Silage	Heifer Spring	Spring	Incorporated within 2-4 days	18 ton/A	0	0	0	73	0	159	0	-110	0	
A14	10.8	Corn Silage	Heifer Spring	Spring	Incorporated within 2-4 days	10 ton/A	0	0	0	105	0	207	0	-61	0	Yes
A15	5.8	Corn Silage	Cow Spring	Spring	Incorporated within 2-4 days	7850 gal/A	0	0	0	48	0	0	0	-75	-102	
A16	2.4	Alfalfa 1st yr	No Manure	No Manure	No Manure	0	0	0	0	0	0	40	0	0	0	

<sup>1</sup> See rate calibration table (Nutrient Management Plan Summary Notes).

<sup>2</sup> Positive numbers = nutrient deficit; Negative numbers = nutrient excess

# Nutrient Management Plan Summary

Total acres reported in NMP Summary: 246.6

Crop Year(s) 2014

Whole Farm Note: \_\_\_\_\_

CMU/Field ID	Acres	Crop	Manure Group	Application Season	Application Management	Planned Manure Rate <sup>1</sup>	Starter/Other Fertilizer (lb/A)			Supplemental Fertilizer (lb/A)			Nutrient Balance (lb/A) <sup>2</sup>			Notes (Select "Yes")
							N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	
A17	18.2	Corn Silage	Cow Fall	Early Fall	Incorporated within 3-7 days	7850 gal/A	0	0	0	97	0	0	0	-82	-33	Yes
A18	3.6	Corn Silage	Cow Spring	Spring	Incorporated within 2-4 days	7850 gal/A	0	0	0	58	0	0	0	-75	-132	Yes
A19	4.4	Alfalfa 1st yr	No Manure	No Manure	No Manure	0	0	0	0	0	0	0	0	0	0	Yes
A20	2.9	Pasture	Pre-Fresh Heifers - uncollected	Grazing	Late spring through early fall	Grazing See Notes	0	0	0	85	0	0	0	-43	-112	Yes
A21	10.4	Corn Silage	Cow Spring	Spring	Incorporated within 2-4 days	7850 gal/A	0	0	0	58	0	0	0	-75	-102	Yes
A22	12.8	Corn Silage	Heifer Fall	Early Fall	Incorporated within 3-7 days	18 ton/A	0	0	0	79	0	0	0	-121	-106	Yes
B 1	4.8	Corn Silage	Cow Spring	Spring	Incorporated within 2-4 days	7850 gal/A	0	0	0	93	0	0	0	-75	-72	
B 2	5.4	Alfalfa	No Manure	No Manure	No Manure	0	0	0	0	0	270	0	0	0	0	
B 3	5.3	Corn Silage	Cow Spring	Spring	Incorporated within 2-4 days	7850 gal/A	0	0	0	93	0	88	0	-75	0	
B 4	5.5	Corn Silage	Heifer Spring	Spring	Incorporated within 2-4 days	10 ton/A	0	0	0	60	0	0	0	-61	-73	Yes
B 5	5.6	Corn Silage	Heifer Spring	Spring	Incorporated within 2-4 days	10 ton/A	0	0	0	105	0	207	0	-61	0	Yes

<sup>1</sup> See rate calibration table (Nutrient Management Plan Summary Notes).

<sup>2</sup> Positive numbers = nutrient deficit;  
Negative numbers = nutrient excess

# Nutrient Management Plan Summary

Total acres reported in NMP Summary: 246.6

Crop Year(s) 2014

Whole Farm Note:

CMU/Field ID	Acres	Crop	Manure Group	Application Season	Application Management	Planned Manure Rate <sup>1</sup>	Starter/Other Fertilizer (lb/A)			Supplemental Fertilizer (lb/A)			Nutrient Balance (lb/A) <sup>2</sup>			Notes (Select "Yes")
							N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	
B 6	5.4	Corn Silage	Heifer Fall	Early Fall	Incorporated within 3-7 days	18 ton/A	0	0	0	79	0	164	0	-121	0	Yes
B 7	5.5	Alfalfa	No Manure	No Manure	No Manure	0	0	0	0	0	0	130	0	0	0	Yes
B 8	12.5	Wheat/Soy beans(Wheat based yield)	Cow Fall	Early Fall	Incorporated within 3-7 days	7850 gal/A	0	0	0	0	0	0	2	-82	-143	Yes
B 9	3.8	Corn Silage	Heifer Fall	Early Fall	Incorporated within 3-7 days	10 ton/A	0	0	0	124	0	204	0	-67	0	Yes
B10	4	Corn Silage	Heifer Fall	Early Fall	Incorporated within 3-7 days	18 ton/A	0	0	0	79	0	0	0	-121	-106	
B11	6.6	Corn Silage	Heifer Spring	Spring	Incorporated within 2-4 days	10 ton/A	0	0	0	105	0	217	0	-61	0	
B12	2.3	Alfalfa	No Manure	No Manure	No Manure	0	0	0	0	0	0	260	0	0	0	
B13	5.5	Alfalfa 1st yr	No Manure	No Manure	No Manure	0	0	0	0	0	0	0	0	0	0	Yes
C1	10.7	Wheat/Soy beans(Wheat based yield)	Cow Fall	Early Fall	Incorporated within 3-7 days	7850 gal/A	0	0	0	0	0	36	2	-82	0	
C2	13.4	Corn Silage	Cow Spring	Spring	Incorporated within 2-4 days	7850 gal/A	0	0	0	58	0	118	0	-75	0	
C3	13.7	Corn Silage	Cow Fall	Early Fall	Incorporated within 3-7 days	7850 gal/A	0	0	0	97	0	137	0	-82	0	Yes

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Crop Years. 2014

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