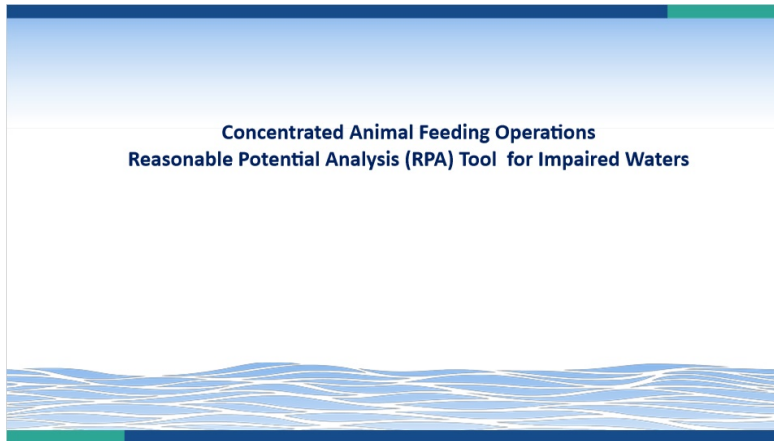


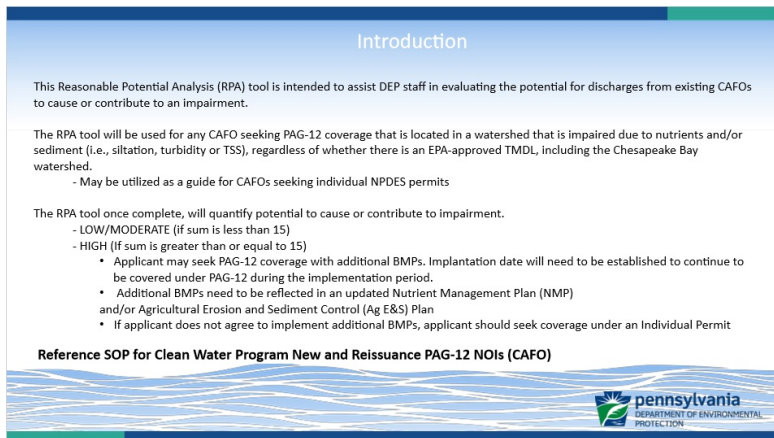
Final RPA Tool Training CWA

1. Final CWA RPA Tool DEMO

1.1 CAFO RPA Tool



1.2 Introduction



1.3 Low/Moderate

LOW/MODERATE

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**Concentrated Animal Feeding Operations
Reasonable Potential Analysis for Impaired Waters** CLEAR FORM

CAFO Name: Fernville Farms Permit No.:

Impaired Waters: Big Mill Creek

Check the box and answer the questions (if the answer is True)

| | Score |
|---|-------|
| <input checked="" type="checkbox"/> Surface waters are within one mile of the production area. | 1 |
| Distance: <u>100</u> ft | 1 |
| Stream Order: <u>1</u> | 1 |
| <input type="checkbox"/> Livestock are permitted unrestricted access to surface waters. | 0 |
| <input checked="" type="checkbox"/> There are manure storage facilities on-site that store liquid manure and/or process wastewater. | 1 |
| Does any manure storage accept direct precipitation or runoff? | 0 |
| Is the manure storage an earthen or clay-lined facility? | 0 |
| Was the manure storage constructed prior to 2000? | 0 |
| Is there an O&M Plan and it is being implemented? | 0 |
| <input type="checkbox"/> Sludge leachate has been observed to enter waters of the Commonwealth in the past. | 0 |
| <input checked="" type="checkbox"/> The production area includes animal concentration area(s) (ACAs). | 1 |
| Is the ACA located adjacent to a surface water? | 0 |
| Is stormwater from roofs diverted away from the ACA? | 0 |
| Is ACA runoff collected and stored, treated or managed? | 0 |
| <input type="checkbox"/> There is evidence of channelized flow from the production area to a surface water. | 0 |
| Total Score: <u>9</u> | |

Reasonable Potential to Cause or Contribute to Impairment is: **LOW/MODERATE**

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1.4 High

HIGH

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**Concentrated Animal Feeding Operations
Reasonable Potential Analysis for Impaired Waters** CLEAR FORM

CAFO Name: Oakwood Farms Permit No.:

Impaired Waters: Big Mill Creek

Check the box and answer the questions (if the answer is True)


| | Score |
|---|---------|
| <input checked="" type="checkbox"/> Surface waters are within one mile of the production area. | 1 |
| Distance: <u>100</u> ft | 1 |
| Stream Order: <u>3</u> | 1 |
| <input checked="" type="checkbox"/> Livestock are permitted unrestricted access to surface waters. | 1 |
| Approximate number of ADUs: <u>2500</u> | 1 |
| There is no indication that the access is adversely affecting surface waters. | Unknown |
| <input checked="" type="checkbox"/> There are manure storage facilities on-site that store liquid manure and/or process wastewater. | 1 |
| Does any manure storage accept direct precipitation or runoff? | 0 |
| Is the manure storage an earthen or clay-lined facility? | 0 |
| Was the manure storage constructed prior to 2000? | 0 |
| Is there an O&M Plan and it is being implemented? | 0 |
| <input checked="" type="checkbox"/> Sludge leachate has been observed to enter waters of the Commonwealth in the past. | 1 |
| Is a sludge leachate management system in place? | 1 |
| <input checked="" type="checkbox"/> The production area includes animal concentration area(s) (ACAs). | 1 |
| Is the ACA located adjacent to a surface water? | 0 |
| Is stormwater from roofs diverted away from the ACA? | 0 |
| Is ACA runoff collected and stored, treated or managed? | 0 |
| <input checked="" type="checkbox"/> There is evidence of channelized flow from the production area to a surface water. | 1 |
| Is there a potential for manure, litter, feed, sludge or other pollutants to run off? | 1 |
| Total Score: <u>13</u> | |

Reasonable Potential to Cause or Contribute to Impairment is: **HIGH**

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1.5 Instructions

Instructions



Consentment Animal Feeding Operations Reasonable Potential Analysis for Impaired Waters Instructions

This spreadsheet is intended to assist DEP staff in evaluating the potential for discharges from existing CAFOs to contribute to an impairment. The spreadsheet will be used for any CAFO seeking PAB 12 coverage that is located in a watershed that is impaired due to nutrients and/or sediment, regardless of whether it is on the PAB list, including the Chesapeake Bay Watershed. This spreadsheet may also be used to guide dischargers for CAFOs seeking individual NPDES permits.

At the top of the form, enter the name of the CAFO, the NPDES Permit Number, and the name of the impaired waters. If the CAFO in the Chesapeake Bay watershed but not in the watershed of a local impaired water, enter "Chesapeake Bay".

Check the boxes below if the statements are true. If true, answer the questions that follow. Answers may be based on future comments on an approved NPDES consentation plan.

Surface waters are within one mile of the production area. If checked a value of 1 is assigned, otherwise 0.

1. Surface waters are defined as 27 ft. Cook #10.2.

Distance: Enter the distance from the boundary of the production area to the nearest surface water (using the length of the overland flow line) up to 1,280 feet. Production areas are defined in the PAB-12 General Permit. For distances less than 500 feet, a value of 1 is assigned; for distances greater than or equal to 500 feet but less than 1,280 feet, a value of 2 is assigned; and for distances greater than or equal to 1,280 feet, a value of 3 is assigned.

Stream Order: Select the order of the stream from 1 to 7 where 1 has no tributaries (farthest upstream) in watershed and 7 is the farthest downstream. When two streams with different orders join, the resulting stream has the same order as the highest order of the two joining streams. Stream order for most streams can be identified in the drainage lists at 89 to 93 in the WRI. When 1 is selected, a value of 1 is assigned; where 2 is selected, a value of 2 is assigned; where 3 is selected, a value of 3 is assigned; and where 4, 5, 6, or 7 is selected, a value of 4 is assigned.


2. Surface waters are connected across to surface waters. If checked a value of 1 is assigned, otherwise 0.

Consentment Animal Feeding Operations Reasonable Potential Analysis for Impaired Waters

CLEAR FORM

| | | | |
|-------------------------|------------------------------|-------------------------|------------------|
| CAFO Name: | Flow Wides Daily CAFO | Permit No.: | PAB124873 |
| Impaired Waters: | | Conansaque River | |

Note: If the CAFO is in the Chesapeake Bay Watershed but not in the watershed of a local impaired water, enter "Chesapeake Bay" as the Impaired Waters



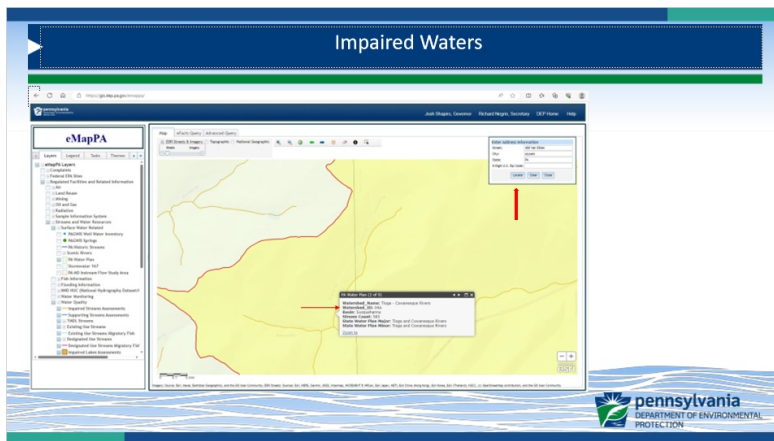
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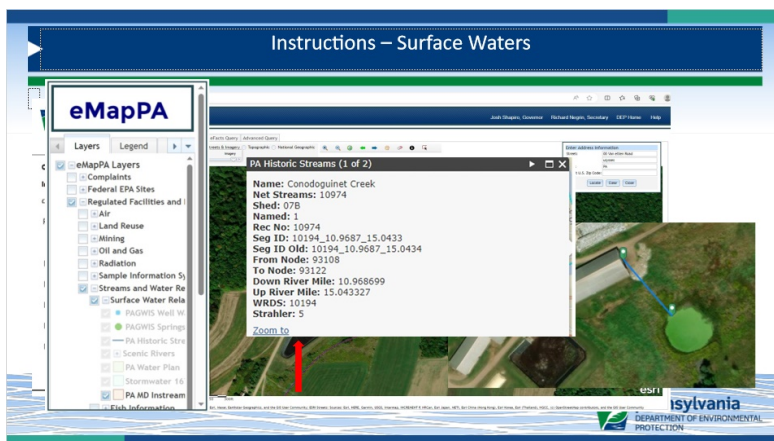
1.6 Impaired Waters

The screenshot displays the eMapPA web application interface. The main map area shows a geographical view of Pennsylvania with various layers overlaid. On the left, there is a 'Layers' panel with a tree view showing categories like 'eMapPA Layers', 'Consolidated', 'Federal Use Sites', 'Regulatory Facilities and Related Information', 'Land Base', 'Planning', 'Oil and Gas', 'Radiation', 'Sample Information Systems', 'Streams and Water Resources', 'Surface Water Related', 'Flooded Information', 'HMS SOC, Potential Hydrography Dataset', 'Water Monitoring', and 'Water Quality'. A red arrow points from the 'Water Quality' layer to the 'Regulatory Facilities and Related Information' category. Below this, there are checkboxes for 'Supporting Streams Assessments', 'TMDL Stream', 'Existing Use Streams', 'Designated Use Stream', 'Designated Use Stream Migratory Fish', 'Designated Use Stream', 'Designated Use Stream Migratory Fish', 'Supporting Lakes Assessments', 'TMDL Lakes', 'Existing Use Lakes', and 'Designated Use Lakes'. On the right, there is a 'Map' panel with a search bar, a map view selector (Satellite, Topographic, Aerial, Street View), and a 'Map Address Information' form. The map shows a location in Pennsylvania with a red pin and a label '400 Township, PA 17111'. A red arrow points from the 'Map Address Information' form to the map. At the bottom right, there is a logo for the Pennsylvania Department of Environmental Protection.

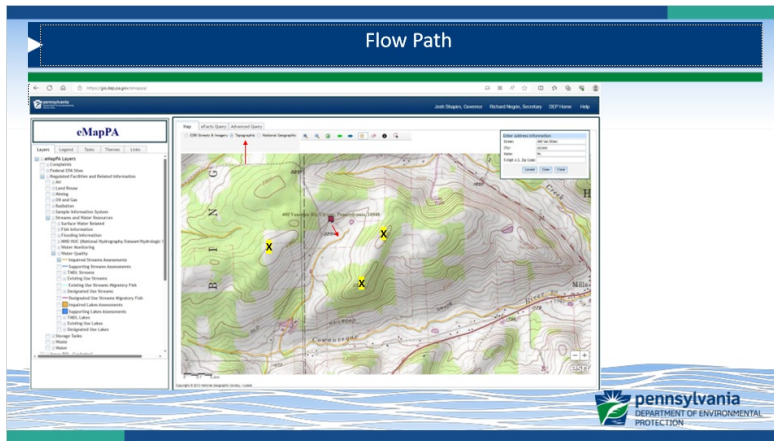
1.7 Impaired Waters



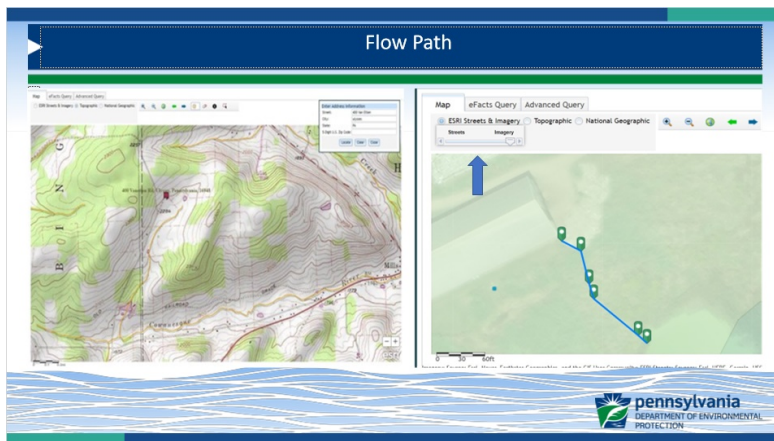
1.8 Surface Waters



1.9 Flow Path



1.10 Flow Path



1.11 Surface Waters

Instructions – Surface Waters

Version 1.0, September 6, 2023

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Concentrated Animal Feeding Operations
Reasonable Potential Analysis for Impaired Waters [CLEAR FORM](#)

CAFO Name: **Four Winds Dairy CAFO** Permit No.: **PAG124873**

Impaired Waters: **Cowanesque River**

Check the box and answer the questions if the answer is True

| | Score |
|--|----------|
| <input checked="" type="checkbox"/> Surface waters are within one mile of the production area. | 1 |
| Distance: 200 ft | 3 |
| Stream Order: 5 | 0 |
| <input type="checkbox"/> Livestock are permitted unrestricted access to surface waters. | 0 |
| <input type="checkbox"/> There are manure storage facilities on-site that store liquid manure and/or process wastewater. | 0 |
| <input type="checkbox"/> Silage leachate has been observed to enter waters of the Commonwealth in the past. | 0 |
| <input type="checkbox"/> The production area includes animal concentration area(s) (ACA(s)). | 0 |
| <input type="checkbox"/> There is evidence of channelized flow from the production area to a surface water. | 0 |
| Total Score: | 4 |

Reasonable Potential to Cause or Contribute to Impairment is: **LOW/MODERATE**

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1.12 Unrestricted Access

Instructions – Unrestricted Access

Version 1.0, September 6, 2023

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Concentrated Animal Feeding Operations
Reasonable Potential Analysis for Impaired Waters [CLEAR FORM](#)

CAFO Name: **Four Winds Dairy CAFO** Permit No.: **PAG124873**


Impaired Waters: **Cowanesque River**

Check the box and answer the questions if the answer is True

| | Score |
|--|----------|
| <input checked="" type="checkbox"/> Surface waters are within one mile of the production area. | 1 |
| Distance: 200 ft | 3 |
| Stream Order: 5 | 0 |
| <input type="checkbox"/> Livestock are permitted unrestricted access to surface waters. | 0 |
| <input type="checkbox"/> There are manure storage facilities on-site that store liquid manure and/or process wastewater. | 0 |
| <input type="checkbox"/> Silage leachate has been observed to enter waters of the Commonwealth in the past. | 0 |
| <input type="checkbox"/> The production area includes animal concentration area(s) (ACA(s)). | 0 |
| <input type="checkbox"/> There is evidence of channelized flow from the production area to a surface water. | 0 |
| Total Score: | 4 |

Reasonable Potential to Cause or Contribute to Impairment is: **LOW/MODERATE**

Livestock are permitted unrestricted access to surface waters.



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[illegible]

Instructions – Manure Storage

1.15 Earthen/Clay-Lined Manure Storage



1.16 Silage Leachate

Instructions

Version 1.0, September 6, 2013

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Concentrated Animal Feeding Operations
Reasonable Potential Analysis for Impaired Waters CLEAR FORM

CAFO Name: Four Winds Dairy CAFO Permit No.: PA0124873

Impaired Waters: Cowanesque River

Check the box and answer the questions if the answer is True


| | Score |
|---|---------------|
| <input checked="" type="checkbox"/> Surface waters are within one mile of the production area. | 1 |
| Distance: <u>200</u> ft | 1 |
| Stream Order: <u>5</u> | 0 |
| <input type="checkbox"/> Livestock are permitted unrestricted access to surface waters. | 0 |
| <input checked="" type="checkbox"/> There are manure storage facilities on-site that store liquid manure and/or process wastewater. | 1 |
| Does any manure storage accept direct precipitation or runoff? | |
| Is the manure storage an earthen or clay-lined facility? | Yes 0 No 0 |
| Was the manure storage constructed prior to 2000? | No 0 Yes 0 |
| Is there an O&M Plan and it is being implemented? | Yes 0 |
| <input checked="" type="checkbox"/> Silage leachate has been observed to enter waters of the Commonwealth in the past. | 1 |
| Is a silage leachate management system in place? | No 1 Yes 0 |
| <input type="checkbox"/> The production area includes animal concentration area(s) (ACA(s)). | 0 |
| <input type="checkbox"/> There is evidence of channelized flow from the production area to a surface water. | 0 |
| Total Score: | 7 |

Reasonable Potential to Cause or Contribute to Impairment is: **LOW/MODERATE**

Silage leachate has been observed to enter the waters of the Commonwealth in the past.

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1.17 ACA



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Instructions - ACA

Version 3.0, September 6, 2023

Concentrated Animal Feeding Operations
Reasonable Potential Analysis for Impairment

CAFO Name: **Fawn Winds Dairy CAFO** Permit No.: **PAG124873**

Impaired Waters: **Conesqueo River**

Check the box and answer the questions if the answer is True

☒ Surface waters are within one mile of the production area.

Distance: 200 Ft

Stream Order: 5

☐ Livestock are permitted unrestricted access to surface waters.

☒ There are manure storage facilities on-site that store liquid manure and/or process wastewater.

Does any manure storage exceed direct precipitation or runoff?

Is the manure storage an earthen or clay-lined facility?

Was the manure storage constructed prior to 2007?

Is there an O&M Plan and it is being implemented?

☒ Silage leachate has been observed to enter waters of the Commonwealth in the past.

Is a silage leachate management system in place?

☒ The production area includes animal concentration area(s) (ACA(s)).


Is the ACA located adjacent to a surface water?

Is stormwater from roofs diverted away from the ACA?

Is ACA runoff collected and stored, treated or managed?


☐ There is evidence of channelized flow from the production area to a surface water.

The production area includes animal concentration area(s) (ACA(s)).



Reasonable Potential to Cause or Contribute to Impairment is: **LOW/MODERATE**

Total Score: **10**



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Instructions - ACA

Version 3.0, September 6, 2023

Concentrated Animal Feeding Operations
Reasonable Potential Analysis for Impairment

CAFO Name: **Fawn Winds Dairy CAFO** Permit No.: **PAG124873**

Impaired Waters: **Conesqueo River**

Check the box and answer the questions if the answer is True

☒ Surface waters are within one mile of the production area.

Distance: 200 Ft

Stream Order: 5

☐ Livestock are permitted unrestricted access to surface waters.

☒ There are manure storage facilities on-site that store liquid manure and/or process wastewater.

Does any manure storage exceed direct precipitation or runoff?

Is the manure storage an earthen or clay-lined facility?

Was the manure storage constructed prior to 2007?

Is there an O&M Plan and it is being implemented?

☒ Silage leachate has been observed to enter waters of the Commonwealth in the past.

Is a silage leachate management system in place?

☒ The production area includes animal concentration area(s) (ACA(s)).


Is the ACA located adjacent to a surface water?

Is stormwater from roofs diverted away from the ACA?

Is ACA runoff collected and stored, treated or managed?


☐ There is evidence of channelized flow from the production area to a surface water.

The production area includes animal concentration area(s) (ACA(s)).



Reasonable Potential to Cause or Contribute to Impairment is: **LOW/MODERATE**

Total Score: **10**



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Instructions - ACA

Version 3.0, September 6, 2023

Concentrated Animal Feeding Operations
Reasonable Potential Analysis for Impairment

CAFO Name: **Fawn Winds Dairy CAFO** Permit No.: **PAG124873**

Impaired Waters: **Conesqueo River**

Check the box and answer the questions if the answer is True

☒ Surface waters are within one mile of the production area.

Distance: 200 Ft

Stream Order: 5

☐ Livestock are permitted unrestricted access to surface waters.

☒ There are manure storage facilities on-site that store liquid manure and/or process wastewater.

Does any manure storage exceed direct precipitation or runoff?

Is the manure storage an earthen or clay-lined facility?

Was the manure storage constructed prior to 2007?

Is there an O&M Plan and it is being implemented?

☒ Silage leachate has been observed to enter waters of the Commonwealth in the past.

Is a silage leachate management system in place?

☒ The production area includes animal concentration area(s) (ACA(s)).


Is the ACA located adjacent to a surface water?

Is stormwater from roofs diverted away from the ACA?

Is ACA runoff collected and stored, treated or managed?


☐ There is evidence of channelized flow from the production area to a surface water.

The production area includes animal concentration area(s) (ACA(s)).



Reasonable Potential to Cause or Contribute to Impairment is: **LOW/MODERATE**

Total Score: **10**



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Instructions - ACA

Version 3.0, September 6, 2023

Concentrated Animal Feeding Operations
Reasonable Potential Analysis for Impairment

CAFO Name: **Fawn Winds Dairy CAFO** Permit No.: **PAG124873**

Impaired Waters: **Conesqueo River**

Check the box and answer the questions if the answer is True

☒ Surface waters are within one mile of the production area.

Distance: 200 Ft

Stream Order: 5

☐ Livestock are permitted unrestricted access to surface waters.

☒ There are manure storage facilities on-site that store liquid manure and/or process wastewater.

Does any manure storage exceed direct precipitation or runoff?

Is the manure storage an earthen or clay-lined facility?

Was the manure storage constructed prior to 2007?

Is there an O&M Plan and it is being implemented?

☒ Silage leachate has been observed to enter waters of the Commonwealth in the past.

Is a silage leachate management system in place?

☒ The production area includes animal concentration area(s) (ACA(s)).


Is the ACA located adjacent to a surface water?

Is stormwater from roofs diverted away from the ACA?

Is ACA runoff collected and stored, treated or managed?


☐ There is evidence of channelized flow from the production area to a surface water.

The production area includes animal concentration area(s) (ACA(s)).



Reasonable Potential to Cause or Contribute to Impairment is: **LOW/MODERATE**

Total Score: **10**



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Instructions - ACA

Version 3.0, September 6, 2023

Concentrated Animal Feeding Operations
Reasonable Potential Analysis for Impairment

CAFO Name: **Fawn Winds Dairy CAFO** Permit No.: **PAG124873**

Impaired Waters: **Conesqueo River**

Check the box and answer the questions if the answer is True

☒ Surface waters are within one mile of the production area.

Distance: 200 Ft

Stream Order: 5

☐ Livestock are permitted unrestricted access to surface waters.

☒ There are manure storage facilities on-site that store liquid manure and/or process wastewater.

Does any manure storage exceed direct precipitation or runoff?

Is the manure storage an earthen or clay-lined facility?

Was the manure storage constructed prior to 2007?

Is there an O&M Plan and it is being implemented?

☒ Silage leachate has been observed to enter waters of the Commonwealth in the past.

Is a silage leachate management system in place?

☒ The production area includes animal concentration area(s) (ACA(s)).

Is the ACA located adjacent to a surface water?

Is stormwater from roofs diverted away from the ACA?

Is ACA runoff collected and stored

1.18 Channelized Flow

Instructions – Channelized Flow

Concentrated Animal Feeding Operations Reasonable Potential Analysis for Impaired Waters

CLEAR FORM

☒ Surface waters are within one mile of the production area.

Distance: 220 FT 1
Stream Order: 4 0

☒ Livestock are permitted unrestricted access to surface waters.

Approximate number of AEU's: 1
There is no indication that the access is adversely affecting surface waters. ☐ 0

☒ There are manure storage facilities on-site that store liquid manure and/or process wastewater.

Does any manure storage exceed direct precipitation or runoff? ☐ No 1
Is the manure storage an earthen or clay-lined facility? ☐ No 0
Was the manure storage constructed prior to 2000? ☐ No 0
Is there an O&M Plan and it is being implemented? ☐ Yes 0

☒ Sludge leachate has been observed to enter waters of the Commonwealth in the past.

Is a sludge leachate management system in place? ☐ No 1

☒ The production area includes animal concentration area(s) (ACA(s)).

Is the ACA located adjacent to a surface water? ☐ Yes 1
Is stormwater from roofs diverted away from the ACA? ☐ Yes 0
Is ACA runoff collected and stored, treated or managed? ☐ Yes 0

☒ There is evidence of channelized flow from the production area to a surface water.

Is there a potential for manure, litter, dust, slander or other pollutants to run off? ☐ Yes 1


Total Score: **13**

Reasonable Potential to Cause or Contribute to Impairment to: **LOW/MODERATE**

There is evidence of channelized flow from the production area to the surface water.

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1.19 Example 1 RPA



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Example 1 Results

Version 1.0, September 6, 2023


Concentrated Animal Feeding Operations

Reasonable Potential Analysis for Impaired Waters

CLEAR FORM


| | Score |
|---|-----------------------|
| <input checked="" type="checkbox"/> Surface waters are within one mile of the production area. Distance: 220 Ft Stream Order: 5 | 1 3 0 |
| <input type="checkbox"/> Livestock are permitted unrestricted access to surface waters. | 0 |
| <input checked="" type="checkbox"/> There are manure storage facilities on-site that store liquid manure and/or process wastewater. Does any manure storage accept direct precipitation or runoff? Yes Is the manure storage on earthen or clay-lined facility? No Was the manure storage constructed prior to 2000? No Is there an O&M Plan and it is being implemented? Yes | 1 0 0 0 1 |
| <input checked="" type="checkbox"/> Silage leachate has been observed to enter waters of the Commonwealth in the past. Is a silage leachate management system in place? Yes | 0 0 |
| <input type="checkbox"/> The production area includes animal concentration area(s) (ACA(s)). | 0 |
| <input type="checkbox"/> There is evidence of channelized flow from the production area to a surface water. | 0 |
| Total Score: | 6 |

Reasonable Potential to Cause or Contribute to Impairment is: LOW/MODERATE



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1.20 Example 2



Concentrated Animal Feeding Operations
Reasonable Potential Analysis for Impaired Waters

Example 2 - Poultry

10/1/2012 10:00 AM

CFO Name: Cyn Mt. Joy Poultry Farm CFO **Permit No.:** PA6123709


Impaired Waters: Chickies Creek

Check the box and answer the questions if the answer is True

| | |
|---|----------------------|
| <input checked="" type="checkbox"/> Surface waters are within one mile of the production area. Distance: <u>190</u> FT Stream Order: <u>2</u> | Score 1 1 2 |
| <input type="checkbox"/> Livestock are permitted/unrestricted access to surface waters. | 0 |
| <input type="checkbox"/> There are manure storage facilities on-site that store liquid manure and/or gross wastewater. | 0 |
| <input type="checkbox"/> Sludge seepage has been observed to enter waters of the Commonwealth in the past. | 0 |
| <input type="checkbox"/> The production area includes animal concentration area(s) (ACCA(s)). | 0 |
| <input type="checkbox"/> There is evidence of channelized flow from the production area to a surface water. | 0 |

Total Score: 6

Reasonable Potential to Cause or Contribute to Impairment is: LOW/MODERATE



1.21 Example 3

Example 3 - Swine

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**Concentrated Animal Feeding Operations
Reasonable Potential Analysis for Impaired Waters**

[CLEAR FORM](#)

CAFO Name: **Curta R. Moser** Permit No.: **PAG123708**

Impaired Waters: **Swatara Creek**

Check the box and answer the questions if the answer is true.

| | Score |
|---|----------|
| <input checked="" type="checkbox"/> Surface waters are within one mile of the production area. | 1 |
| Bedrock: SLD PI | 2 |
| Stream Order: 4 | 0 |
| <input type="checkbox"/> Overlook are permitted unrestricted access to surface waters. | 0 |
| <input checked="" type="checkbox"/> There are manure storage facilities on-site that store liquid manure and/or process wastewater. | 1 |
| Does any manure storage accept direct precipitation or runoff? | |
| Is the manure storage an earthen or clay-lined facility? | No 0 |
| Was the manure storage constructed prior to 2000? | No 0 |
| Is there an TSSM that and it is being implemented? | Yes 0 |
| <input type="checkbox"/> Sludge backflow has been observed to enter waters of the Commonwealth in the past. | 0 |
| <input type="checkbox"/> The production area includes animal concentration areas (ACA's). | 0 |
| <input type="checkbox"/> There is evidence of channelized flow from the production area to a surface water. | 0 |
| Total Score: | 4 |

Reasonable Potential to Cause or Contribute to Impairment to: **LOW/MODERATE**

cMapPA

cMapPA

Address: 1000 Swatara Creek
Bedrock: SLD
Stream Order: 4
CAFO Name: Curta R. Moser
Permit No.: PAG123708
Impaired Waters: Swatara Creek
Total Score: 4
Reasonable Potential: LOW/MODERATE

1.22 Conclusion

Conclusion

- This Reasonable Potential Analysis (RPA) tool is intended to assist DEP staff in evaluating the potential for discharges from existing CAFOs to cause or contribute to an impairment.
 - RPA Tool will not be used for new operations.
- The RPA tool will be used for any CAFO seeking PAG-12 coverage that is located in a watershed that is impaired due to nutrients and/or sediment (i.e., siltation, turbidity or TSS), regardless of whether there is an EPA-approved TMDL, including the Chesapeake Bay watershed.
- Clean Water Program New and Reissuance of PAG-12 NOIs (CAFOs)
- A site visit will always be the best option to confirm the responses on the RPA tool.