
**Chesapeake Bay Agricultural
Inspection Program**

**Improving Local Water Quality in PA and
Restoring the Chesapeake Bay**

June - July 2016

Tom Wolf, Governor Patrick McDonnell, Acting Secretary

OBJECTIVES OF THIS TRAINING

1. Basic knowledge of the Bay “Reboot”
 - Able to answer the question of “Why are you inspecting me?”
2. Conduct ***Initial Ag Inspection***, using the SOP:
 - Be able to Plan/Prepare for these inspections;
 - Be able to conduct an Initial Ag Inspection; and
 - Be able to input the Initial Ag Inspection information into the ***Bay Ag Inspection Log***

Regulatory Authority

Authority: Federal Clean Water Act, Pennsylvania Clean Streams Law

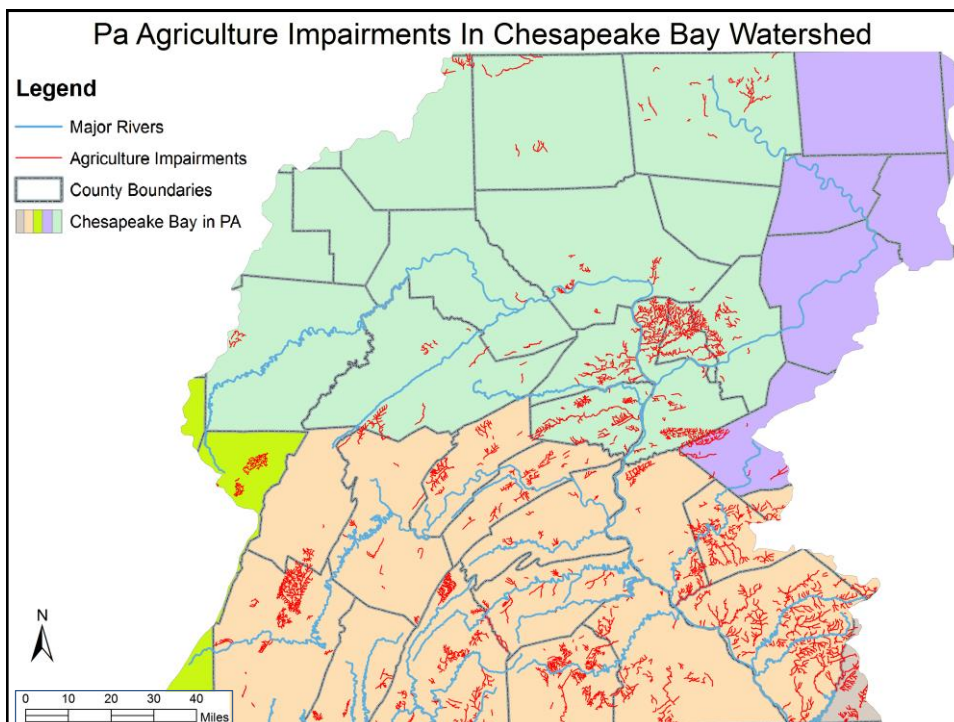
Regulatory Requirements for Agriculture

1972 - Chapter 102: Erosion & Sediment Control

1986 - Chapter 91: Polluted Runoff (Manure)

1993 - Chapter 83: CAO

2000 - Chapter 92: CAFO



How did we get here?

- Chesapeake Bay Program – Since 1985
- Executive Order (2009) / EPA TMDL (2010)
 - Watershed Implementation Plan (WIP)
 - PA Not Meeting WIP Goals
 - Backstops
- PA “Reboot” Strategy (Jan. 2016)
 - Six Elements

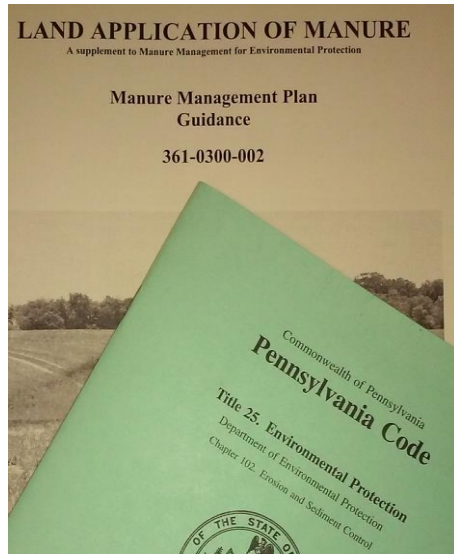


“Reboot”: Six Elements

- 1) Address Pollutant Reduction
- 2) Quantify & Multiply BMPs
- 3) Improve Record-keeping
- 4) Identify Needed Changes
- 5) Establish a DEP Chesapeake Bay Office
- 6) Seek New Resources



Primary Inspection Goals

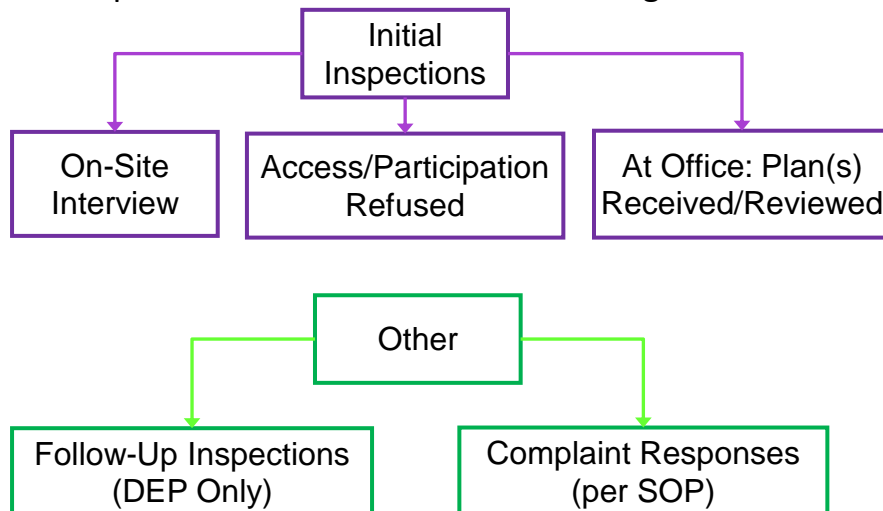


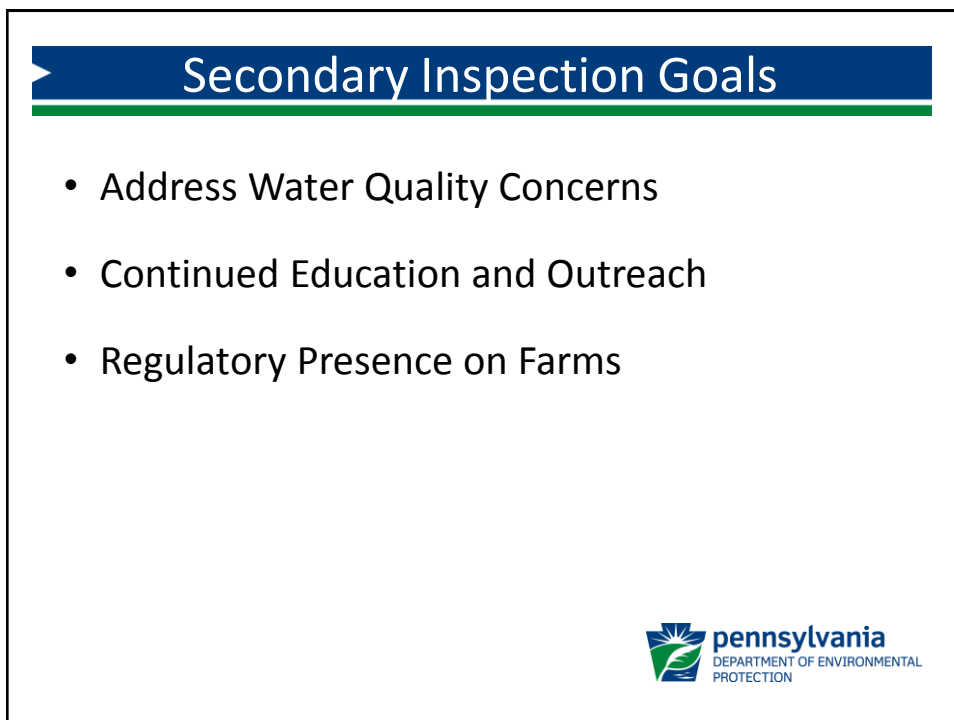
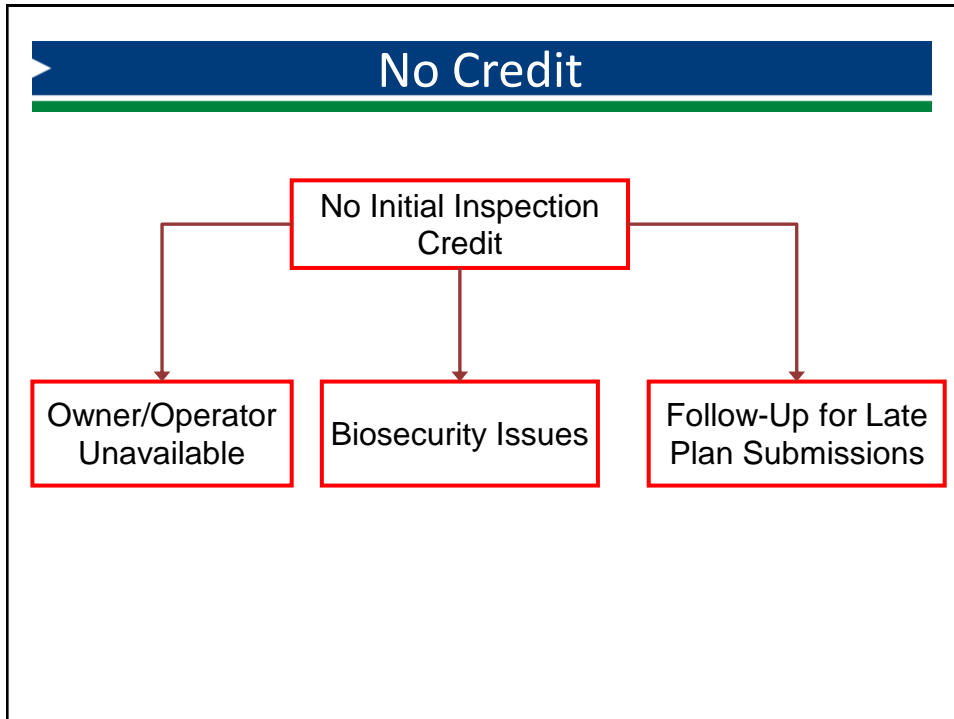
1. Inspect 10% of all farms within the CB Watershed Annually (~3360)
2. Assure all farms have required plans
3. Enforcement for non-compliance.



Full Inspection Credit

Full inspection credit received for following:





How? Why?

Training Will Focus On:

- How - Initial Inspection SOP / Inspection Form
- Why - ???



Chesapeake Bay Agricultural Inspection Program

Annual Planning

Tom Wolf, Governor

Patrick McDonnell, Acting Secretary

Objective

- Use the SOP to complete the annual planning process.
- Plan inspection work for coming year.
- Needed for DEP-CCD coordination.
 - DEP RO will schedule local CCD meeting for planning.
 - DEP RO will coordinate Farm IDs within Region.



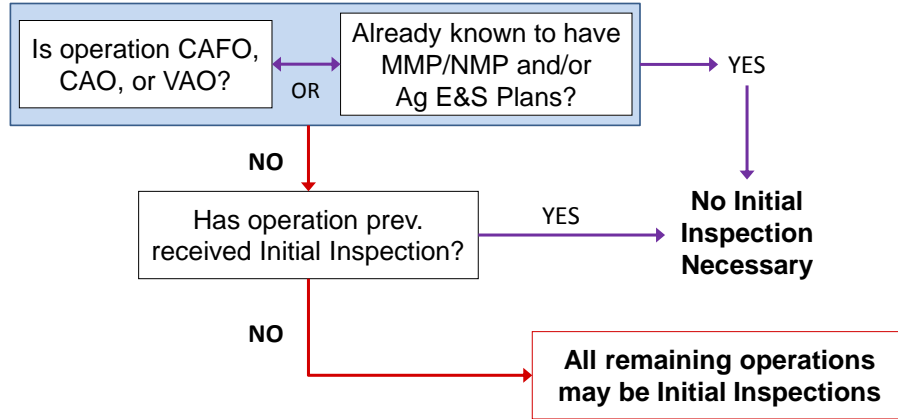
Annual Planning

- CCD - Selection Strategy needed soon.
- CCDs – Determine 50 farm operations to be inspected.
- Operations to be inspected: Any Farm EXCEPT
 - a. CAFO, CAO, VAO
 - b. Farms with prior Initial Inspection
 - c. Farms known to have both Plans



Annual Planning - CD

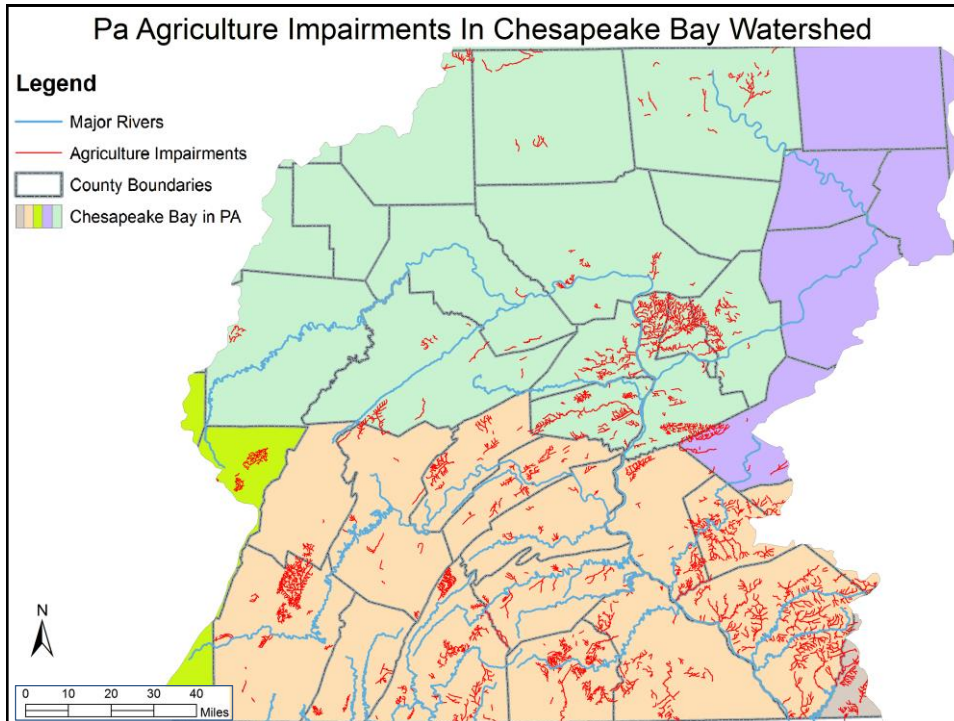
CD Selection Process



- *Complaint responses may be used if criteria above met and Inspection Report completed*

Annual Planning

- Strategies can include:
 - a. Municipalities
 - b. Ag impaired waters
 - c. Specific Watersheds
 - d. Farm Visit List
 - e. Other?



Annual Planning

- Farms for annual inspection should be identified in a clear manner:
 - a. Map or List
 - b. “Preliminary List of Inspections”
- Work with DEP staff to create unique Farm IDs


Planning Deadlines 2016: CD Coordinate w/DEP

Future Deadlines 2017: CD Submit to DEP/May 1st



Annual Planning

- July 1, 2017 – CCDs and DEP ROs report the operations not requiring initial inspections.
- An “Initial Inspections Not Required” spreadsheet will be provided to report this list. It will be like the “Preliminary List of Inspections.”
- Under “Inspection Status” column, choose “Unnecessary.”



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Annual Planning


- Planning Considerations :
 - Good communication between CD and DEP.
 - Resolution of problems should they arise.
 - Further meetings/phone calls to calibrate efforts.



Annual Planning

[Preliminary List of Inspections.xlsx](#)





**Chesapeake Bay Agricultural
Inspection Program**

Pre-inspection Preparation and Biosecurity


Tom Wolf, Governor

Patrick McDonnell, Acting Secretary

Pre-Inspection & Biosecurity

Objectives:

- 1. Understand how to prepare for initial inspections**
- 2. Understand need for biosecurity awareness and SOP protocols**



DEP Pre-Inspection Letter

DEP Central Office will be sending a pre-inspection letter to all known agricultural operations within the Chesapeake Bay Watershed

1. Provides notice that CCD/DEP or EPA will be inspecting them
2. Affords farmer the opportunity to contact CCD/DEP to request planning assistance or schedule appointment to review plans



Initial Inspection Candidate

An operation that **does not** contact DEP/CCD and **does not** have documentation in DEP/CCD files* confirming the existence of required plans is a candidate for **on-site** initial inspection.

*By **July 1, 2017** DEP/CCD will submit list of ag operations to DEP Central Office that will not receive an initial inspection



Initial Inspection Credit

Considered Initial Inspection:

1. If farmer makes appointment to review plans at CCD/DEP office or farm
2. If farmer requests planning assistance and provides plans w/in designated timeframe
3. On-farm inspection

...and the Initial Inspection Report is completed and recorded in the *Bay Agriculture Inspection Log*



Pre-Inspection Activities



File reviews, aerial maps, farm website



Pre-Inspection Contact

Whenever possible, call ahead:

- ✓ Explain purpose of inspection
 - ✓ Ask if they have plans
 - “No” >> discuss option to develop/submit
 - “Yes” >> schedule date/time, discuss biosecurity protocols, parking, etc.
- *advance notice unnecessary if no phone #, complaint investigation, noncompliance history



Biosecurity

RESTRICTED ENTRY

This is a
BIOSECURE FACILITY

Please Comply
with **ALL** posted
Biosecurity Signs



Help Keep Our Animals Healthy

Biosecurity

What Is Biosecurity?


- A series of management practices (physical, chemical, logical) designed to minimize or prevent the importation of infectious agents onto a farm.
- Disease may be caused by Viruses, Bacteria, Parasites, Fungi, Toxins

Biosecurity

Why is biosecurity important?



Example: HPAI depopulation/disposal at layer operation in Des Moines, Iowa – Summer 2015. Estimated cost \$1.2B in Iowa alone.



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Bureau of Clean Water

Chesapeake Bay Agricultural Inspection Program

Initial Inspections


Tom Wolf, Governor

Patrick McDonnell, Acting Secretary

Objectives

At the end of this section, you should know how to:


- Complete the inspection form
- Determine the types of plans required
- Know how to follow-up when plans are missing or not administratively complete.



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Inspection Form


Initial Inspection Form



Form: Header & Basic Info

Farm ID <input style="width: 90%;" type="text"/>	Inspection Date <input style="width: 90%;" type="text"/>	Entry Time <input style="width: 90%;" type="text"/>	Agency <input type="checkbox"/> DEP <input type="checkbox"/> CCD
---	---	--	---

Latitude:	Total Acres of Operation: <input style="width: 50%;" type="text"/>								
Longitude:	<input type="checkbox"/> Home Farm <input type="checkbox"/> Rented Fields								
City, State and Zip:	<input type="checkbox"/> Satellite Farm								
City, State and Zip:	<input type="checkbox"/> Animals Housed On-Site								
Interviewee: Name:	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%; text-align: center;">Type</th> <th style="width: 50%; text-align: center;">No.</th> </tr> </thead> <tbody> <tr><td>_____</td><td>_____</td></tr> <tr><td>_____</td><td>_____</td></tr> <tr><td>_____</td><td>_____</td></tr> </tbody> </table>	Type	No.	_____	_____	_____	_____	_____	_____
Type	No.								
_____	_____								
_____	_____								
_____	_____								
<input type="checkbox"/> Owner _____	AEUs: _____ <input type="checkbox"/> Calc. Attached								
<input type="checkbox"/> Operator _____	<input type="checkbox"/> Crops Only								
<input type="checkbox"/> Other _____									



Unknown CAOs and CAFOs

- Inspections are focused on non-CAFO/non-CAO operations
 - However, inspections may find unknown CAOs or CAFOs
- Animal Equivalent Units (AEUs) should be calculated by the technician if the operation is suspected to be a CAO.



Form: MMP

Manure Management Plan	Is Manure Generated or Applied On-Site? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Does the Operation Have a Written MMP? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Admin. Complete? <input type="checkbox"/> Yes <input type="checkbox"/> No			
MMP Developed By: <input type="checkbox"/> Certified Planner <input type="checkbox"/> Owner or Operator (<input type="checkbox"/> with assistance) <input type="checkbox"/> Agency			
Planner Name:		Plan Date:	
Acres Available for Manure: Includes: <input type="checkbox"/> Home Farm <input type="checkbox"/> Satellite Farm(s) <input type="checkbox"/> Rented Fields			
<input type="checkbox"/> Manure is Exported <input type="checkbox"/> Manure is Imported (<input type="checkbox"/> NBS Available) <input type="checkbox"/> Sewage Sludge is Imported			
Liquid Manure Storage Facilities:		Manure Stacking: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Type:	Capacity: MG	Year:	Process Wastewater: <input type="checkbox"/> Yes <input type="checkbox"/> No
Type:	Capacity: MG	Year:	Outdoor Feed Storage: <input type="checkbox"/> Yes <input type="checkbox"/> No
Type:	Capacity: MG	Year:	AHUA(s) / ACA(s): <input type="checkbox"/> Yes <input type="checkbox"/> No
Does the Owner or Operator Indicate the MMP Is Being Implemented? <input type="checkbox"/> Yes <input type="checkbox"/> No			
<input type="checkbox"/> Manure Application Setbacks Are Followed		<input type="checkbox"/> Manure Application Records Are Kept	
Comments:			

Form: Ag E&S Plan

Agricultural E&S Plan Plowing/Tilling Activities or AHUA(s) of at Least 5,000 SF On-Site? <input type="checkbox"/> Yes
Does the Operation Have a Written Ag E&S Plan? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Admin. Complete? <input type="checkbox"/> Yes
E&S Plan Developed By: <input type="checkbox"/> Consultant <input type="checkbox"/> Owner or Operator (<input type="checkbox"/> with assistance) <input type="checkbox"/> Agency Planner Name: _____ Plan Date: _____
Acres Covered By E&S Plan: Includes: <input type="checkbox"/> Home Farm <input type="checkbox"/> Satellite Farm(s) <input type="checkbox"/> Rented Fields
Does the Owner or Operator Indicate the Ag E&S Plan Is Being Implemented? <input type="checkbox"/> Yes <input type="checkbox"/> No
Comments:

Form: Non-Cost Share BMPs

Non-Cost Share BMPs	
<input type="checkbox"/> Stream Fencing	<input type="checkbox"/> Precision Feeding
<input type="checkbox"/> Barnyard Runoff Control	<input type="checkbox"/> Phytase
<input type="checkbox"/> Cover Crops	<input type="checkbox"/> Rotational Grazing
<input type="checkbox"/> Streamside Grass Buffers	<input type="checkbox"/> Retired Lands
<input type="checkbox"/> Forest Buffers	<input type="checkbox"/> Water Control Structure
<input type="checkbox"/> Conservation Tillage	<input type="checkbox"/> Other: _____
Comments:	

The owner or operator has indicated that the following non-cost share BMP(s) have been implemented on the operation. The BMP(s) do not necessarily meet NRCS Field Office Technical Guide (FOTG) standards. Practices that meet FOTG standards are designed to function under normal conditions and comprehensively address the natural resource concerns identified.

Form: WQ & Violations

Water Quality	<input type="checkbox"/> Pollution Incident	<input type="checkbox"/> Not Determined
	<input type="checkbox"/> Other Water Quality Concerns	
Violations	<input type="checkbox"/> 25 Pa. Code § 91.36(b)	<input type="checkbox"/> 25 Pa. Code § 102.4(a)
	<input type="checkbox"/> Other: _____	← DEP Inspectors
Recommended Corrective Action(s):		
<input type="checkbox"/> Develop and submit MMP to inspector.	_____ days	← Recommended submission date, (# days from date of report)
<input type="checkbox"/> Develop and submit Ag E&S Plan to inspector.	_____ days	
<input type="checkbox"/> Other: _____		

Form: Finishing

<input type="checkbox"/> The Owner or Operator has completed an NRCS Authorization form for release of NRCS-developed plan(s)			
Person Interviewed: Cell Phone:		Inspector Name: Cell Phone:	
Signature:	Other Phone:	Signature:	Other Phone:
Organization:		Organization:	
Title:		Title:	
Email:		Date Report Provided to Operation:	

- Point out [waiver](#) at bottom of form to the person interviewed to read prior to signing.
- Copy of report to operations w/in 10 business days

Inspection - Review

- Determine if MMP and/or Ag E&S Plan(s) required.
- Document any assistance operation had in completing plan(s).
- Ask to see required plans.



Follow-Up

Pollution Incidents (Acute) – When referral to DEP RO needed for follow-up using the [Referral Form](#) or another method.

Water Quality Concerns (Chronic)

- Permanently addressed during inspection – note the solution taken.
- Not permanently addressed during inspection – note steps operator was recommended to take. CCD may follow-up or refer to DEP for follow-up.






Follow-Up

Missing or Incomplete Plans

- Give operation 90 – 180 days to submit/revise.
- If plan not submitted, follow up with operation within 15 business days after due date.

Still no plan:

-  Made progress: Give extra 90 days.
-  No progress made: Refer to DEP
- After 90 days – No Plan  Refer to DEP

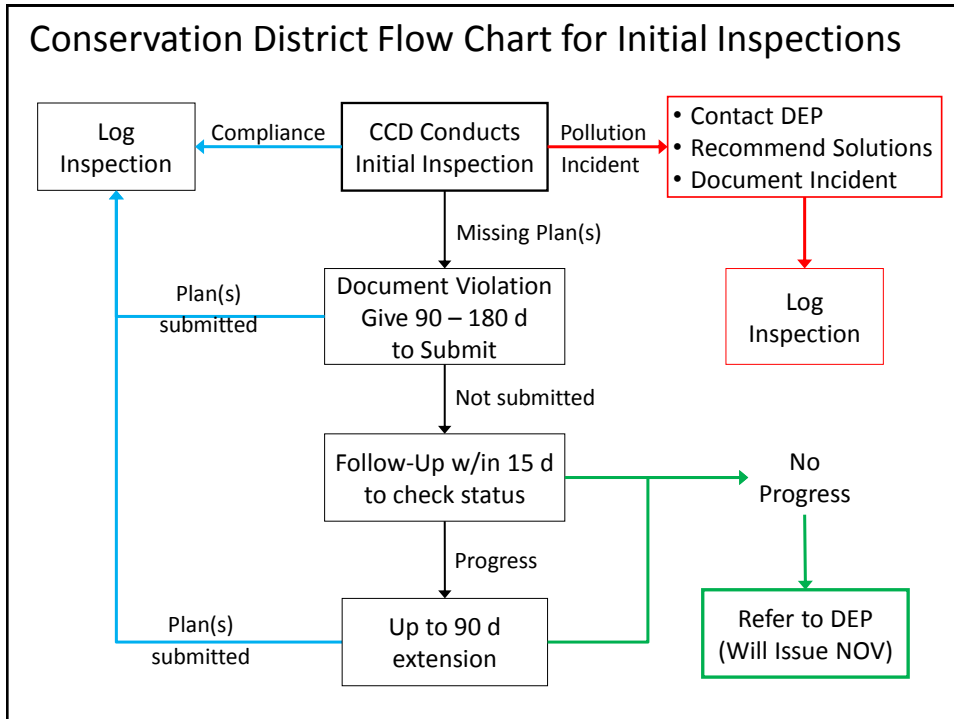


Follow-Up

Referrals to DEP  Initiate enforcement action

1. NOV
2. Compliance/Enforcement Priority List for follow-up.
4. Follow up actions may include:
 - Phone call
 - Inspection
 - Penalty/Assessment






Reporting/Recordkeeping

- All inspection reports partially or fully completed shall be scanned/saved to PDF format and saved on secure network.
- Inspecting entity may keep physical copy of all inspection reports in the office.

Recordkeeping

[Inspection Log](#)

- When opened, note the warning at the top “Macros have been disabled.”
- Click “Enable Content”
- Instructions are on the third tab.



Recordkeeping

7	MMP Due: 1/11/2017		
9	Farm ID	65-123456	Operation N
10	County	Dauphin	Inspection I
11	Municipality	Dauphin Borough	Inspection 1
12	Total Acres of Operation	500.0	Lati
13	Mobile Address	50 Farm Lane	Lat

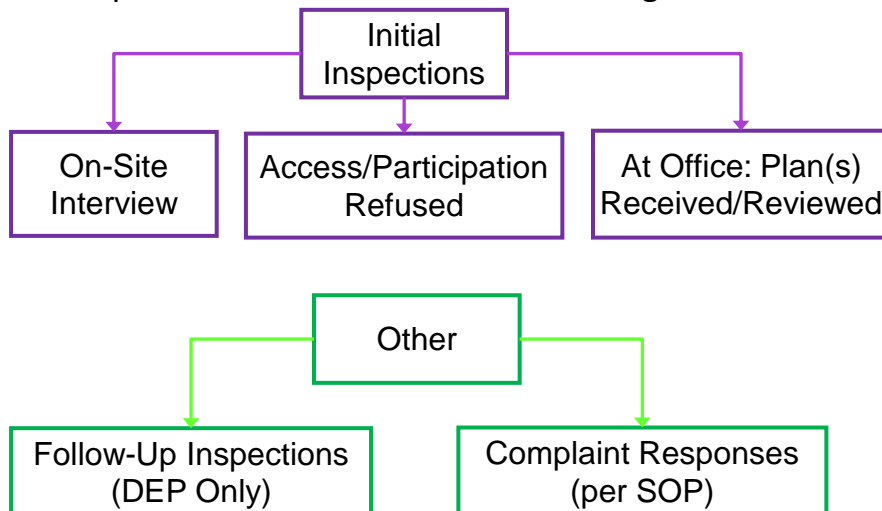
N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ

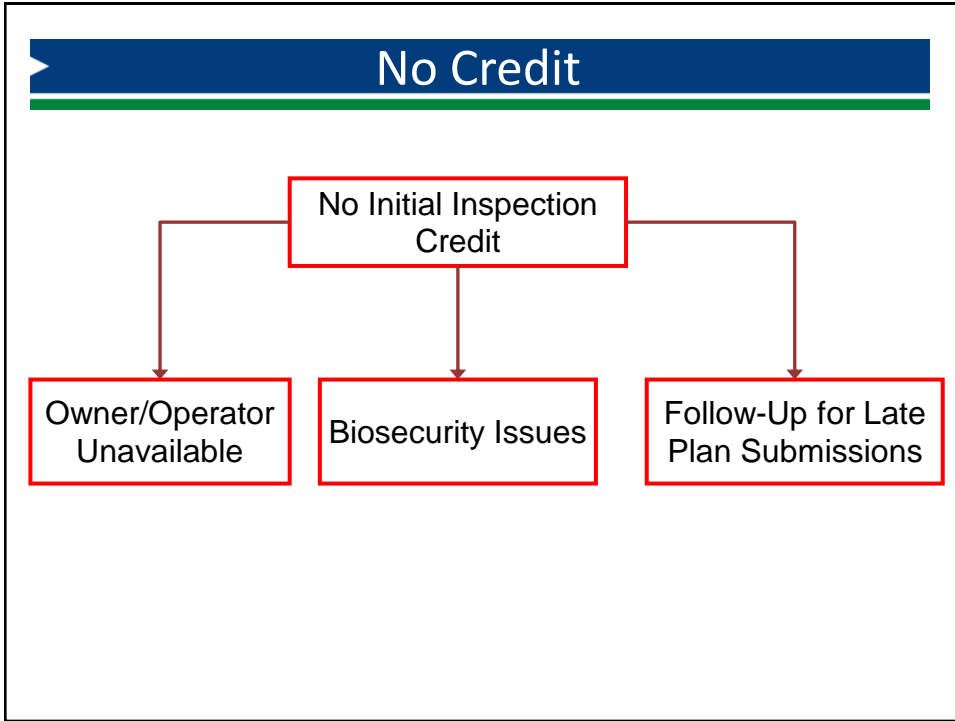
Reporting

- CCDs will submit Log to regional office via email to BCW and Regional DEP office quarterly per SOP
- DEP ROs will compile CCD and RO logs and submit as annual report to BCW.

Full Inspection Credit

Full inspection credit received for following:





The "Examples" section is currently blank. At the bottom right of the slide, there is the logo for the Pennsylvania Department of Environmental Protection, which includes a stylized green leaf icon and the text "pennsylvania DEPARTMENT OF ENVIRONMENTAL PROTECTION".

Inspection: Farmer Smith's Home Operation

The diagram shows five tracts of land labeled A through E. Tract A is a green field (40 acres) containing a red barn and a tractor. Tract B is a green field (60 acres) rented to Mr. Brown. Tract C is a blue field (60 acres) containing Mr. Smith's house and barn. Tract D is a yellow field (80 acres) containing Mr. Brown's house. Tract E is a green field (100 acres). Arrows point from the text questions to the barn and house areas.

Mr. Smith's Field 40 Acres

Mr. Smith's Field 60 Acres

Mr. Smith's Field rented to Mr. Brown 60 Acres

Mr. Brown's Field 80 Acres

Mr. Smith's Field 100 Acres

Mr. Smith's House & Barn

Mr. Brown's House

How many acres in home operation? 100 Acres

How many inspections can be completed on these tracts of land? 3 inspections

Inspection: Farmer Moore's Home Operation

Both an Ag E&S Plan and an MMP are required. However, Mr. Moore only has the Ag E&S Plan. You had given him 120 days at the time of inspection to complete the plan since his planner said it would take more than 90 days to complete. The due date has passed, and the plan still has not been submitted. What should you do?

The diagram shows two tracts of land labeled A and C. Tract A is a green field containing a red barn and a tractor. Tract C is a green field. A blue house is shown to the right of the fields.

Conclusion

- Write any questions you have from the morning sessions on your comment card
 - Write your contact information on your card in case we need to clarify your question
- Put them in the box near the back of the room for collection prior to getting lunch
- Thank you!



Chesapeake Bay Agricultural Inspection Program

Plan Review

Tom Wolf, Governor

Patrick McDonnell, Acting Secretary

“Farming looks mighty easy when your plow is a pencil, and you’re a **thousand miles** from the corn field.”

— President Dwight D. Eisenhower



Plan Review

- 3 levels of checks:

1. Administratively Complete ← **Current Effort**
2. Technically Complete (or Adequate)
3. Implemented

Plan Review

- Manure Management
 - Manure Management Plan Guidance 361-0300-002
 - Administrative Plan Review and Checklist
- Agricultural Erosion and Sediment Control (Ag E&S)
 - Administrative Plan Review and Checklist



Plan Review

- Manure Management
 - Manure Management Plan Guidance 361-0300-002
 - Act 38 Nutrient Balance Sheets (NBS)
 - NRCS 590 Nutrient Management Plans



Manure Management

NOTE – The inspector will briefly review the plan with the owner or operator to ensure the plan is administratively complete. An MMP is considered administratively complete if it includes or identifies:

- General information, including owner/operator contact information, MMP preparer information, date of the plan, acres available for manure application (owned and rented), and, if applicable, the type and number of animals on the operation and days on the farm.
- Maps illustrating farm boundaries; all individual field boundaries in the plan; field identifiers and acreage for each field; setbacks and slopes of any fields that are used for winter manure application (if applicable); environmentally sensitive areas (e.g., drinking water wells, streams, sinkholes, etc.) and setbacks; location(s) of proposed or existing manure storage facilities; location(s) of all manure stockpiling or stacking areas; location(s) of all pastures and animal heavy use areas (if applicable); locations and names of roads adjacent or within the farm; and existing and planned BMPs.
- Acceptable manure and wastewater application rates considering the planned crops on the farm, fertilizer rates, and crop groups and yields.
- A description of the methods used to manage the manure prior to land application (storage and/or stacking, if applicable).
- All manure groups on the operation (including imported manure).
- A description of pasture management practices (if applicable).
- A description of ACAs and BMPs used to treat runoff (if applicable). (Note that if there are ACAs in the MMP there must also be an Ag E&S Plan if the total disturbed area is greater than or equal to 5,000 square feet).
- Appropriate winter spreading fields (if applicable), including the manure application rate, percent crop residue, type of cover crop (if applicable) and individual field slopes.

The technical adequacy of the plan will not generally be evaluated as part of an Initial Inspection.

★ **NOTE** – An MMP that is considered by the inspector to be significantly deficient with respect to the items above will be treated as a violation of the regulatory requirement to have a written MMP. Where an MMP is incomplete but is not considered by the inspector to be significantly deficient, the inspector may use the Comments section of the Inspection Report to provide suggestions for improvement. The inspector is documenting whether or not the plan is complete in order to prioritize Follow-Up Inspections and/or technical assistance.

Manure Management

- Administrative Completeness Review Guide**
 - Recommended for those who are not experienced in developing or reviewing MMPs

**MANURE MANAGEMENT PLAN (MMP)
ADMINISTRATIVE COMPLETENESS REVIEW GUIDE**

Operation Name		Does plan include all properties under the management control of the operator? <input type="checkbox"/> Yes <input type="checkbox"/> No
Location Address		


Place a checkmark in the appropriate box for all items listed. Any "No" items are deficiencies that should be addressed with the owner/operator.

1.	Contact Information (check all provided in plan) <input type="checkbox"/> Owner <input type="checkbox"/> Operator <input type="checkbox"/> Plan preparer	
2.	Date of plan development (or update) indicated and current with farm management practices	<input type="checkbox"/> Yes <input type="checkbox"/> No
3.	Acres available for manure application (rented and owned) identified	<input type="checkbox"/> Yes <input type="checkbox"/> No
4.	Animal Information (type, number, number of days on farm per year) provided	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

Manure Management		
5.	Environmentally Sensitive Area worksheet is completed	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
6.	MMP summary is completed which includes (as applicable) crop group and anticipated yield, manure groups, application seasons, planned application rates, incorporation timing, supplemental fertilizers, and field identifiers.	<input type="checkbox"/> Yes <input type="checkbox"/> No
7.	Plan must include map(s) that identify the following features, for both owned and rented lands:	
	• Farm Boundaries	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
	• Individual field boundaries for all fields in plan	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
	• Field identifiers and acreage for each field	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
	• Identification of average slopes for fields used for winter application	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
	• Location of Environmentally Sensitive Areas and manure application setbacks	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
	• Location of Proposed or Existing Manure Storage Facilities	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
	• Location Manure Stockpiling or Stacking Areas	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
	• Location of all pastures	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
	• Location of all Animal Concentration Areas (ACAs)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
	• Location and names of all roads adjacent to or within farm	<input type="checkbox"/> Yes <input type="checkbox"/> No

Manure Management		
8.	Crop yield, manure transfer, and monthly manure storage inspection records (as applicable)	<input type="checkbox"/> Yes <input type="checkbox"/> No
9.	<p>Descriptions are provided for all manure management activities and storage facilities, including:</p> <p>a. Types, sizes, and volumes of liquid/semi-liquid structures (e.g. concrete/metal tanks, under building structures, lined lagoon or pond)</p> <p>b. A Water Quality Management Permit or copy of Professional Engineer (PE) certification must be maintained for any liquid or semi-liquid storage constructed after January 29, 2000.</p> <p>c. Solid Manure Stockpiling or Stacking Facilities</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A WQM/PE Certification: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
10.	Description of pasture management practices	<input type="checkbox"/> Yes <input type="checkbox"/> No
11.	Description of ACAs including associated BMPs that are implemented or planned (with schedule)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
12.	Winter manure application worksheet (as applicable) included	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

Note: The MMP works together with the Agricultural Erosion and Sediment Control Plan. Certain sections of information in the MMP (e.g. maps) may be used, as applicable, to satisfy Ag E&S Plan requirements and vice versa.



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Ag E&S

- Required for plowing and tilling (including no-till) and animal heavy use areas that disturb 5,000 square feet or more of land.
- No required format for Ag E&S Plans, but –
 - Typically, they will look like NRCS Conservation Plans or were developed using PA OneStop



Ag E&S

NOTE – The inspector will briefly review the plan with the owner or operator to ensure the plan is administratively complete. An Ag E&S Plan is considered administratively complete if it includes or identifies:

- Maps of all fields (including Satellite Farms, if applicable) where plowing or tilling activities occur, showing surface waters and drainage patterns; field and property boundaries; buildings and farm structures; animal heavy use areas (if applicable); roads; existing and planned BMPs; and soil types.
- Calculations to demonstrate that erosion will be limited to the soil loss tolerance (T) over the planned crop rotation on those fields.
- For tilling on fields with less than 25% cover and within 100 feet of surface waters, additional BMPs to minimize accelerated erosion (if applicable).
- AHUAs and BMPs to reduce accelerated erosion (if applicable).
- Existing and proposed BMP descriptions, including AHUA practices and procedures, tillage systems, schedules and crop rotations.
- Provisions for operation and maintenance of BMPs.
- Implementation schedule (if not fully implemented at the time of inspection).
- Near stream cropland BMPs.

The technical adequacy of the plan will not generally be evaluated as part of an Initial Inspection.

★ **NOTE** – An Ag E&S Plan that is considered by the inspector to be significantly deficient with respect to the items above will be treated as a violation of the regulatory requirement to have a written Ag E&S Plan. Where an Ag E&S Plan is incomplete but is not considered by the inspector to be significantly deficient, the inspector may use the Comments section of the Inspection Report to provide suggestions for improvement and revision. The inspector is documenting whether or not the plan is complete in order to prioritize Follow-Up Inspections and/or technical assistance.

★ **NOTE** – A conservation plan may or may not fulfill all requirements for an Ag E&S Plan. For the purpose of this SOP, an Initial Inspection involves only documenting whether a written Ag E&S Plan or conservation plan containing the required elements of an Ag E&S Plan has been developed and is considered administratively complete.


Ag E&S

**AGRICULTURAL EROSION AND SEDIMENT (Ag E&S) CONTROL PLAN
ADMINISTRATIVE REVIEW GUIDE**

Operation Name	
Location Address	


A written Ag E&S plan is required for agricultural plowing and tilling activities (including no-till practices) and animal heavy use areas (AHUAs) that disturb 5,000 square feet or more of land. Place a checkmark in the appropriate box for all items listed. Any "No" items are deficiencies that should be addressed with the owner/operator.

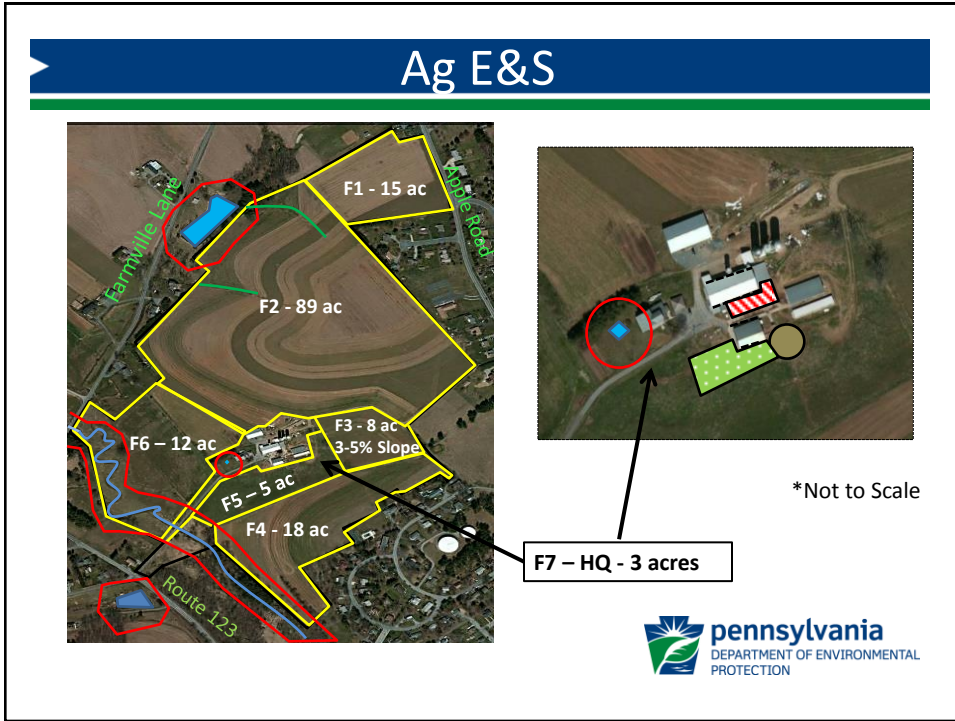
1.	For plowing and tilling activities, documentation is provided that the soil loss will be limited to the soil loss tolerance (T) over the planned crop rotation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
2.	For plowing and tilling activities on fields with less than 25% plant or crop residue cover and within 100 feet of a river or stream (perennial or intermittent), additional BMPs to minimize accelerated erosion and sedimentation are described.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
3.	For AHUAs, the plan identifies BMPs that minimize accelerated erosion and sedimentation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A



Ag E&S

4.	Plan includes a map(s) that identifies the following features, for both owned and rented lands:	
	• Surface waters of the Commonwealth	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
	• Drainage patterns (topographic)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
	• Field and property boundaries	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
	• Buildings and farm structures	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
	• AHUAs	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
	• Roads and crossroads	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
	• BMPs, existing and proposed	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
	• Soil Maps	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A





Ag E&S

5.	Existing and Proposed BMP descriptions, including AHUA practices and procedures, tillage systems, schedules, and crop rotations.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
6.	Plan is consistent with the operation's current NMP or MMP.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
7.	Plan is consistent with both existing and proposed conditions and activities on the operation, including surface waters, drainage patterns, and field boundaries.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
8.	Plan contains an acceptable BMP implementation schedule.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
9.	Plan contains operation and maintenance criteria for the BMPs.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

Note: The Ag E&S Plan generally works together with the Manure Management Plans (MMP) required for operations that land apply manure and agricultural process wastewater. Certain sections of the Ag E&S Plan (e.g. maps) may be used, as applicable, to satisfy MMP requirements and vice versa.

Ag E&S

5.	Existing and Proposed BMP descriptions, including AHUA practices and procedures, tillage systems, schedules, and crop rotations.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
6.	Plan is consistent with the operation's current NMP or MMP.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
7.	Plan is consistent with both existing and proposed conditions and activities on the operation, including surface waters, drainage patterns, and field boundaries.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
8.	Plan contains an acceptable BMP implementation schedule.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
9.	Plan contains operation and maintenance criteria for the BMPs.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A


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Conclusion

- Every farm is different -- one size does not fit all
- Make recommendations to address concerns
- For less experienced specialists and technicians, use the guide
- Talk to each other and learn from your colleagues!





**Chesapeake Bay Agricultural
Inspection Program**

Water Quality Concerns Identification


Tom Wolf, Governor

Patrick McDonnell, Acting Secretary

Pollution Incident & WQ Concerns

- Initial Inspections described in SOP do not include thorough inspection of waste management systems, barnyard, feed storage, etc.*
- However, upon arrival inspectors may observe pollution incidents or other water quality concerns that should be documented.

*CCD may conduct activities above/beyond SOP



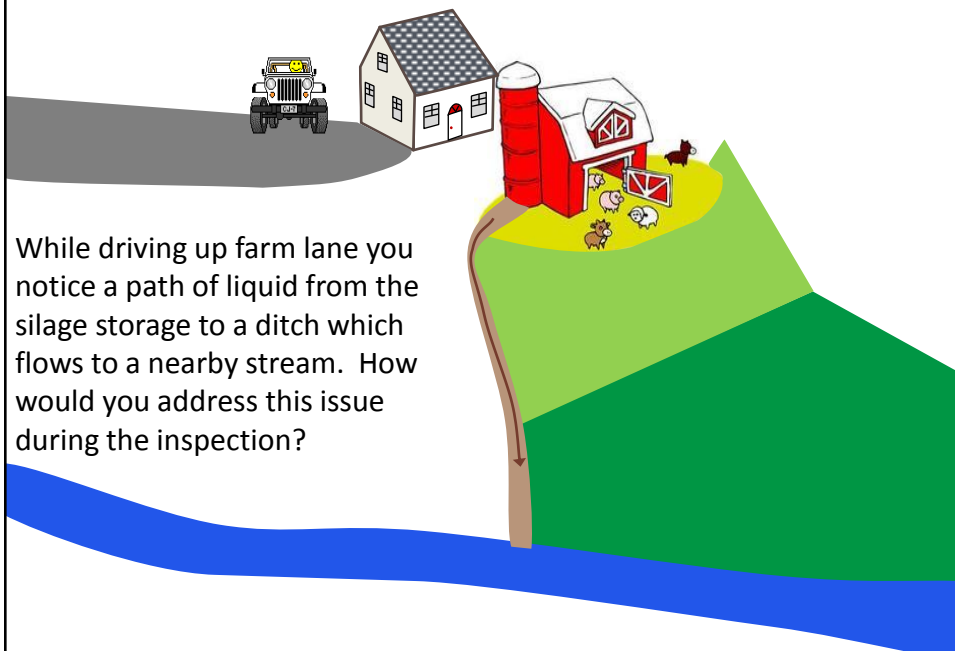
Pollution Incident & WQ Concerns

Pollution Incident (“Acute”) = MSF overflow, silage leachate, or ag process wastewater flowing into waters of the Commonwealth

Water Quality Concern (“Chronic”) = manure stacked close to surface water, uncontrolled barnyard runoff, less than required freeboard in MSF



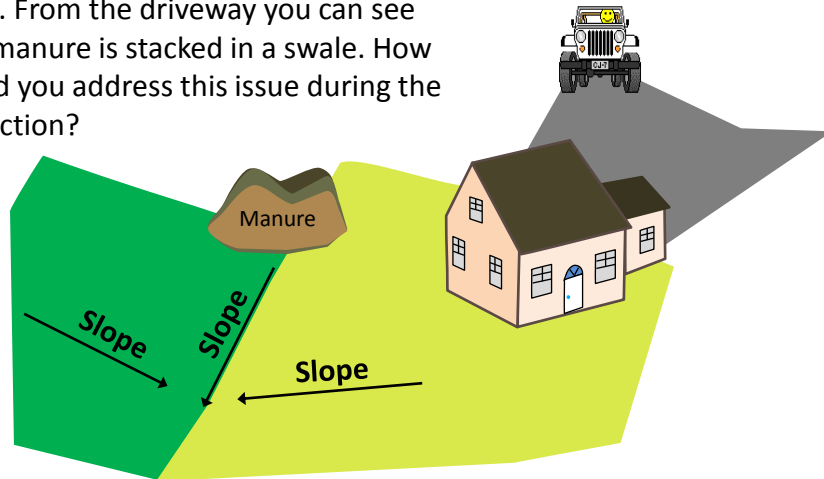
Inspection Example



While driving up farm lane you notice a path of liquid from the silage storage to a ditch which flows to a nearby stream. How would you address this issue during the inspection?

Inspection Example

Inspection day is sunny with no significant rainfall anticipated in the next week. From the driveway you can see that manure is stacked in a swale. How would you address this issue during the inspection?



Pollution Incident or WQ Concern?



Pollution Incident or WQ Concern?



Pollution Incident or WQ Concern?



Pollution Incident or WQ Concern?



Pollution Incident or WQ Concern?



Pollution Incident or WQ Concern?



Pollution Incident or WQ Concern?



Bing View



Upstream of Silage Entry Point



Leachate to Stream 1



Leachate to Stream 2



Pollution Incident or WQ Concern?



Water Quality Concerns

1. If you see something, say something!
2. Provide contact information for technical assistance, if needed
3. Staff with more experience can offer suggestions to mitigate the concern
4. Take photos and document the "Other WQ Concerns" in WQ Section of inspection report



Pollution Incident

1. Contact DEP RO or DEP Emergency Response line if farmer has not already done so
2. Recommend immediate solution(s)
3. Take photos and document "Pollution Incident" in WQ Section of inspection report
4. Coordinate any follow-up w/DEP RO



Chesapeake Bay Agricultural Inspection Program

Conclusion Slides

Tom Wolf, Governor

Patrick McDonnell, Acting Secretary

OBJECTIVES OF THIS TRAINING

1. Basic knowledge of the Bay “Reboot”
 - Able to answer the question of “Why are you inspecting me?”
2. Conduct **Initial Ag Inspection**, using the SOP:
 - Be able to Plan/Prepare for these inspections;
 - Be able to conduct an Initial Ag Inspection; and
 - Be able to input the Initial Ag Inspection information into the **Bay Ag Inspection Log**



Questions/Comments?

