

## Glossary of Terms

Acres Benefited: The number of acres on which erosion is reduced due to BMP installation and/or acreage receiving benefit from the installation of a BMP (i.e., diversions, sod waterways, etc.). See pages **II-64-67** for acreage benefited for each practice.

Advisory committee: The Virginia Agricultural Best Management Practices Technical Advisory Committee, see pages **II-79-81** for current membership.

Agricultural Land: Defined as “land being used in a BONA FIDE program of agricultural management and engaged in the production of agricultural, horticultural or forest products for market. The real estate must consist of a minimum of five contiguous acres and have verifiable gross receipts in excess of \$1,000 per year from the production or sale of agricultural, horticultural or forest products produced on the applicant’s agricultural land for each of the past five years.

Agricultural products: Crops, livestock and livestock products, including but not limited to: field crops, forage, fruits, vegetables, horticultural specialties, cattle, sheep, hogs, goats, horses, poultry, furbearing animals, milk, eggs and furs.

Agricultural production: The production for commercial purposes of crops, livestock and livestock products, and includes the processing or retail sales by the producer of crops, livestock or livestock products which are produced on the parcel or in the district.

Agriculturally and forestally significant land: Land that has recently or historically produced agricultural and forestall products and is suitable for agricultural or forestall production or is considered appropriate to be retained for agricultural and forestall production as determined by such factors as soil quality, topography, climate, markets, farm structures, and other relevant factors.

Amount Approved by SWCD: Determined by the District Board based on primary and secondary considerations, the cost-share rates, total estimated cost, extent approved and/or other considerations outlined in the DCR specifications.

Animal Equivalents (A.E.): One (1) A.E. equals 1,000 lbs. of live animal weight served by the facility in a given year.

Animal Type: The type of livestock the BMP is being installed to treat. For reporting in the BMP Tracking Program, accepts the following animal types.

Beef	Dairy	Swine	Layer	Sheep	Goat
Horse	Turkey	Broiler	Pullets	Llama	Other

Applicant: An applicant may be a landowner, agent, or operator of record as long as the individual has control of the property. An applicant may be any corporation, association, partnership, or one or more individuals. Various companies, corporations, and partnership arrangements exist for farm ownership. Farm corporations (signing under Federal Tax Identification number) or partnerships operating under a farm name are classified as a single "applicant." Applicants are identified by a unique social security number and/or Federal Tax Identification number.

Application: The Virginia BMP Incentives Programs Contract (Part I – Application for Program) as generated by the VA BMP Tracking Program. When completed and signed will be considered an application to participate in the Ag. BPM cost share program.

CDC: Conservation District Coordinator – DCR regional staff that provide support and assistance to the Conservation Districts.

Component Cost: Cost of materials or services associated with the installation of BMPs such as fertilizer, lime, seed, obstruction removal and nitrate or soil testing.

Conservation Plan: Any plan that addresses the water quality problems of the field or site being planned. It must at least reduce erosion to a level of soil loss tolerance equal to T. Plans for individual fields are acceptable, as are those for tracts and entire farms. Examples would include plans written by qualified conservation professionals to comply with the Chesapeake Bay Preservation Act and the 1985, 1990, 2000 and 2008 Food Security Acts. This definition is not intended to establish a new planning standard but to encourage the use and implementation of those already being employed.

Conservation Efficiency Factor (CEF): The CEF factor is calculated by the BMP tracking program to serve as a ranking tool and provide some guidance for ranking applications that would implement different BMPs. This tool is designed to assist SWCDs with the ranking of their cost share practice applications. The CEF uses eleven different components, including soil loss data that is inputted by the SWCD, as well as the environmental information associated with the location of the practice on the earth to generate a factor used to rank the proposed practice compared with other like BMPs as well as different BMPs.

County Code: The Federal Information Processing Standards (FIPS) code; see list beginning on page **II-43**.

Distance to Stream and Relief to Stream: A USGS topographic quad sheet or a Geographic Information Systems (GIS) computer program such as is available within the BMP Tracking program should be used to make these measurements. A measurement is taken between the highest point where the practice is applied and the top of the bank of the nearest solid or dotted blue line stream or man-made drainage channel (acting as an intermittent stream). The distance should be measured along the path of flow between these two end points in feet. Sinkholes, being a geological barrier to flow and potential source of groundwater contamination, can be substituted as the delivery point rather than a blue line stream.

District: A Virginia Soil and Water Conservation District

Engineering Job Approval Authority (EJAA): DCR Engineering Job Approval Authority (EJAA) is the authority to design, inspect, or certify various BMP Practices. Level of EJAA is granted by the DCR Agricultural BMP Engineer to individuals based on their training, experience and demonstrated competence. Until such time that DCR has a fully functioning EJAA program, any NRCS EJAA granted and current prior to October 1, 2013 will be recognized.

Erosion Reduction: For all practices, except grass filter strips, animal waste facilities, and water control structures, specify reduction in tons per acre. Some practices will have sheet and rill erosion, gully erosion, or both. Any wind erosion should be added to sheet and rill.

- A. For Grass Filter Strips (WQ-1), use the procedure outlined starting on page **WQ-1-4**.
- B. For Animal Waste Facilities (WP-4), specify total tons of manure treated on an annual basis.
- C. For Water Control Structures (WQ-5), disregard soil loss calculations, distance and relief to stream. Extent requested and Extent Technically Authorized should indicate acreage of drainage area behind each structure.

Erodibility Index (EI): An index calculated as part of the Virginia GIS project that has been used prior to program year 2009 as a priority consideration. This index calculated the effects of soil productivity on water quality. Since many of the factors involved in calculating the EI have been superseded by more recent and more accurate data new priority considerations were identified beginning in program year 2009.

Established Vegetation: Defined as a viable stand of vegetation that is currently growing with vigor or has been vigorously growing but is now dormant (not dead). The dormant stand has a population density that makes it probable that the vegetation will result in a long-term coverage of 80% or more of the soil surface throughout the area of concern, unless otherwise noted in the DCR practice specifications. This definition should be used where established vegetation is essential for the operation and design function of a practice installed according to NRCS specifications.

Extreme Act of Nature (EAN): Is defined as some sudden and irreversible act of nature that could not have reasonably been foreseen or prevented. Examples include floods, drought, fire, and exceptional storms like hurricanes and tornados. Generally such events should be supported or documented by actions that could include a Governor's drought disaster designation or weather records that document excessive rainfall, floods, tornados or other such events.

Forefall production: the production for commercial purposes of forestall products, and includes the processing or retail sales by the producer, of forestall products that are produced on the parcel. "Forefall products" includes, but is not limited to; saw timber, pulpwood, posts, firewood, Christmas trees and other tree and wood products for sale or for farm use.

Gross Erosion Reduction: Typically used to report soil lost from gullies. Determined by multiplying length, times width, times depth of the existing erosion gully, times the specific weight of soil present, and then divided by the number of years of erosion that were required to create the gully condition. The resulting answer is reported in Tons of Soil Loss per year. Where applicable, gross annual erosion other than sheet and rill erosion may be calculated using RUSLE 2.

Hardship: A declaration of a hardship case is defined as: A highly unusual situation where a participant is cooperating with the SWCD and desires to make repayment of cost-share associated with a practice failure. However, due to a life-threatening illness, bankruptcy or some other highly unusual circumstance the participant is financially unable to make re-payment of the pro-rata share amount in one payment.

Highly Managed Hayland: Is a production system where cropland dedicated to hay production is not grazed. If grass-based, the participants must produce at least 3 cuttings a year of hay, and may have a nitrogen application for each cutting. However, in a designated drought condition the third cutting and nitrogen application would not be required. If legume based (e.g. alfalfa), the participants are exempt from the nitrogen application, and are eligible for phosphorus management under NM-5P. Land (pasture) that is primarily grazed is not to be considered highly managed hayland.

Horticultural production: The production for commercial purposes of horticultural products, and includes the processing or retail sales, by the producer, of horticultural products that are produced on the parcel. "Horticultural products" includes, but is not limited to, fruits of all kinds, grapes, nuts, and berries, nursery and floral products for sale or for farm use.

Hydrologic Unit: Hydrologic units are drainage areas that are delineated so as to nest into a multi-level hierarchical drainage system. Aside from the surface waters that are collected within the boundary of a hydrologic unit, it may also accept water from one or more points outside of the unit's boundary. Hydrologic units should be identified by using the four digit alphanumeric Nation Watershed Boundary Dataset (NWBD) code found on a DCR hydrologic unit map.

Land Capability: The suitability of land for use without permanent damage occurring. Land capability, as ordinarily used in the United States, is an expression of the effect of physical land conditions, including climate, on the total suitability for use without damage from crops that require regular tillage, for grazing, for woodland and for wildlife. Land capability involves consideration of (1) the risks of land damage from erosion and other causes and (2) the difficulties in land use owing to physical land characteristics, including climate.

Land Capability Classifications: A grouping of kinds of soils into special units, classes, and subclasses according to their capability for intensive land treatments required for sustained use, USDA or other qualified Soil Scientist usually prepare such classifications.

Landowner or owner of land: Any person holding a fee simple interest in property but does not mean the holder of an easement.

Lifespan: The number of years a BMP must be maintained in accordance with program standards. The lifespan begins on January 1 of the calendar year following the year of certification of completion. A BMP is subject to spot check throughout the practice lifespan.

Revised Universal Soil Loss Equation (RUSLE): A soil loss equation principally used to estimate the rate that erosion is removing soil from critical parts of the landscape. Current NRCS guidance utilizes RUSLE 2 to calculate sheet and rill erosion.

Social Security Number (SSN): Recorded in the BMP Tracking Program and displayed on the BMP Incentives Programs Contract Part I. If an applicant is incorporated, use the Federal Employee's I.D. Number instead of the SSN. Refer to Definition of Applicant or Participant section of the BMP guidelines for further explanation.

Soil Sampling by Grid or Grid Soil Sampling: The taking of in-field soil samples based upon a grid overlay, each grid may be no larger than 4 acres.

Soil Sampling by Zone or Zone Soil Sampling: The taking of in-field soil sample based upon soil type, zones may be no larger than 20 acres in size.

Spot Check: A check of the BMP's viability during the program lifespan conducted by District personnel under the guidance of the Conservation District Coordinator.

State Piggyback: A joint cost-share procedure that allows for a percentage payment on a specific component of a BMP where the county FSA or NRCS payment is below the state Cost-Share program payment maximum or cap. Districts may cost-share the difference between the FSA or NRCS amount and the maximum cap. This procedure is to be used where FSA or NRCS cost-share alone may not be enough economic incentive to carry out the practice and where the addition of state funds will achieve sufficient water quality improvement. For example, a state funded SL-7 may be used to pay for interior fencing (ineligible for FSA cost-share) to establish rotational grazing, if the application is made simultaneous with the CREP application. For a CREP application a VACS funded SL-7 may be used to extend the watering system into adjacent grazing paddocks.

Tons Waste Treated: Annual total of waste managed by the system; expressed as tons/yr. This does not refer to the design capacity of the structure, but the cumulative total of manure for a 12-month basis.

Total Actual Cost: For flat rate practices, multiply the rate times the extent installed; for all other practices - the total of all eligible components as verified with receipts submitted to and reviewed by SWCD conservation technicians or other technically competent conservation professionals. Though actual cost may exceed the amount authorized, only the authorized cost-share amount may be paid. For flat rate plus percentage of component cost practices (FR-1, FR-3, SL-1 and SL-3) enter acres technically authorized times the flat rate incentive payment PLUS the total cost of all eligible components.

Total Estimated Cost: Refers to total estimated eligible cost; do not include estimated cost for ineligible components. For flat rate practices, multiply the rate times the extent approved. For all other practices the total estimated cost shall be determined by designated technically competent personnel. Permanent vegetative cover on cropland (SL-1) and strip-cropping system (SL-3) should be calculated using the flat rate method. If variable component costs are incurred for, seed, chemicals or obstruction removal, 100% of this amount should be added to the flat rate. The tracking program will calculate the 75% cost-share rate for eligible components.

USGS Topographic Map Name: The name of the U.S. Geological Survey (USGS) 7-1/2 minute quadrangle sheet that covers the area where a BMP practice is located.

Water Quality Index (WQI): An index calculated as part of the Virginia GIS project that has been used prior to program year 2009 as a priority consideration. The WQI calculated an erosion index with a delivery ratio to measure the effects of erosion on water quality. Since many of the factors involved in calculating the WQI have been superseded by more recent and more accurate data new priority considerations were identified beginning in program year 2009.

## **Applicant's Self-Certification of Eligibility**

For the purposes of the Virginia Agricultural BMP Cost-Share Program agricultural land shall be defined as “land being used in a BONA FIDE program of agricultural management and engaged in the production of agricultural, horticultural or forest products for market. The real estate must consist of a minimum of five contiguous acres and have verifiable gross receipts in excess of \$1,000 per year from the production or sale of agricultural, horticultural or forest products produced on the applicant’s agricultural land for each of the past five years.

SWCDs may request that applicants provide proof of agricultural production. To be considered an agricultural producer there must be an annual minimum of \$1,000 of agricultural products being produced, sold or both from the applicant’s agricultural land (non-industrial private forest lands are exempt from the \$1,000 requirement). Any financial records supplied by an applicant to verify eligibility will not be duplicated or retained by the SWCD.

I have read, understand, and certify that I meet the above defined qualifications to participate in the Virginia Agricultural Best Management Practice Cost-Share Program.

\_\_\_\_\_  
Signature of Applicant

\_\_\_\_\_  
Date

**NUTRIENT APPLICATION FIELD RECORD SHEET**

Farm Name: \_\_\_\_\_ FSA Farm #: \_\_\_\_\_ FSA Tract #: \_\_\_\_\_ FSA Field #(s): \_\_\_\_\_

Manure Type: (poultry, liquid dairy, swine, etc.) \_\_\_\_\_ Crop: \_\_\_\_\_ Acres: \_\_\_\_\_

Manure/Biosolids				Commercial Fertilizer/Lime								
Date	Incorporation <sup>1</sup> Time	Acres Applied	Actual Rate/acre	Fertilizer Material						Lime		
				Date	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	Rate/Acre	Method <sup>2</sup>	Date	Ton(s)/Acre	

<sup>1</sup> Incorporation: Immediate, greater than two days, (>2 days), >4 days, or > 7 days      <sup>2</sup> Starter=ST, Broadcast= BR, Top Dress=TD, Side Dress = SD

Farm Name: \_\_\_\_\_ FSA Farm #: \_\_\_\_\_ FSA Tract #: \_\_\_\_\_ FSA Field #(s): \_\_\_\_\_

Manure Type: (poultry, liquid dairy, swine, etc.) \_\_\_\_\_ Crop: \_\_\_\_\_ Acres: \_\_\_\_\_

Manure/Biosolids				Commercial Fertilizer/Lime								
Date	Incorporation <sup>1</sup> Time	Acres Applied	Actual Rate/acre	Fertilizer Material						Lime		
				Date	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	Rate/Acre	Method <sup>2</sup>	Date	Ton(s)/Acre	

<sup>1</sup> Incorporation: Immediate, greater than two days, (>2 days), >4 days, or > 7 days      <sup>2</sup> Starter=ST, Broadcast= BR, Top Dress=TD, Side Dress = SD

# Example

## NUTRIENT APPLICATION FIELD RECORD SHEET

Farm Name: Henry Jones FSA Farm #: 213 FSA Tract #: 5431 FSA Field #(s): 5  
 Manure Type: (poultry, liquid dairy, swine, etc.) Liquid Dairy Crop: Corn / Wheat Acres: 10

Manure/Biosolids				Commercial Fertilizer/Lime							
Date	Incorporation <sup>1</sup> Time	Acres Applied	Actual Rate/acre	Fertilizer Material						Lime	
				Date	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	Rate/Acre	Method <sup>2</sup>	Date	Ton(s)/Acre
4/30/09	>7 days	10	7,200 gals.	5/12/09	15	0	15	100 lbs	ST	3/10/09	1
				6/15/09	30	0	0	300 lbs	SD		
				10/20/09	10	20	20	250 lbs	BR		

<sup>1</sup> Incorporation: Immediate, greater than two days, (>2 days), >4 days, or > 7 days

<sup>2</sup> Starter=ST, Broadcast= BR, Top Dress=TD, Side Dress = SD

Farm Name: Henry Jones FSA Farm #: 213 FSA Tract #: 5431 FSA Field #(s): 6  
 Manure Type: (poultry, liquid dairy, swine, etc.) Crop: Liquid Dairy Crop: Sudangrass/ Barley Acres: 40

Manure/Biosolids				Commercial Fertilizer/Lime							
Date	Incorporation <sup>1</sup> Time	Acres Applied	Actual Rate/acre	Fertilizer Material						Lime	
				Date	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	Rate/Acre	Method <sup>2</sup>	Date	Ton(s)/Acre
4/25/09	>2 days	40	3,000 gals	6/15/09	30	0	0	200 lbs	TD		
				10/20/09	10	20	20	200 lbs	TD		

<sup>1</sup> Incorporation: Immediate, greater than two days, (>2 days), >4 days, or > 7 days

<sup>2</sup> Starter=ST, Broadcast= BR, Top Dress=TD, Side Dress = SD

## Risk Assessment for Water Quality Impairment from Heavy Use Areas/Animal Concentrated Areas

Client's Name: \_\_\_\_\_ Farm #: \_\_\_\_\_ Tract #: \_\_\_\_\_

Livestock Type: \_\_\_\_\_ No: \_\_\_\_\_ Avg. Wt.: \_\_\_\_\_

Is the cooperators currently feeding hay or other feedstuffs from a fixed location?  Yes  No

If yes, then describe where and how they are feeding:

If the cooperators is not feeding hay or other supplements, then do not complete this form.

For those who are feeding, are alternative concentrated feeding locations available?  Yes  No

Could relocation of the concentrated feeding area reduce the risk to the water resources?  Yes  No

Describe the alternatives discussed with the landowner:

Describe the selected alternative:

**Note: The Landowner should be informed that if the selected alternative includes manure or wastewater handling, storage, or treatment practices, a Comprehensive Nutrient Management Plan (CNMP) must be developed and implemented for the farm prior to construction of the storage facility.**

# VA NRCS Concentrated/Feeding Livestock Area Manure and Nutrient Loading Estimator

## 1. Manure Estimator - Input the specific data into the table below.

	INPUTS								OUTPUT - Manure deposited annually in concentrated area			
	A	B	C	D	E	F	G	H				
<small>Select Livestock Type from the list below in Table 1</small>	Number of animals fed	Average animal weight (lbs)	Days in concentrated area (per year)	Portion of manure stopped in concentrated area (%)	Size of concentrated area (ac)	Manure production rate (lbs/day per 1,000 lbs of live weight)	Total N/acre ton of manure	Total P <sub>2</sub> O <sub>5</sub> per ton of manure	2.5	Manure (ton/acre/yr)	Total N (ton/acre/yr)	Total P <sub>2</sub> O <sub>5</sub> (ton/acre/yr)
6	100	75	200	90%	0.25	40	20.5	8	135	3,038	1,080	

## 2. Guidance on inputs:

Column A, B, C, D, E are site specific and may be adjusted according to site conditions and professional judgment.

Column D: If water is available in concentrated/feeding area, assume 40-70% stops in the area (adjust to site conditions).

If water is only available in pasture outside concentrated/feeding area, assume 40-50% stops in the area (adjust to site conditions).

Column E: The concentrated feeding area includes the feeding pad plus the total surrounding area with a 50% cover.

Column F through H (from Table 1 below) are adjusted with appropriate values when livestock type is selected.

**TABLE 1**

Livestock Type	Weight	Manure lbs./day/1,000lbs.	N/ton of manure	P <sub>2</sub> O <sub>5</sub> /ton of manure
1. Beef Feeding	400 - 1,000	40	11	21
2. Beef Cow/Calf	800 - 1,400	104	7	23
3. Non-Lact Dairy	100 - 1,000	36	10	7
4. Lactating Dairy	1,000 - 1,000	119	10	21
5. Horse	1,000 - 1,000	32	16	42
6. Swine/Other	80-200	49	20.5	8

Note: Calculations of manure weight, N, and P are associated with livestock concentrated/feeding locations. Day, beef, horse and sheep values are based on NRCS Agricultural Waste Management Field Handbook (AWMFB).

3. Guidance on interpreting output:

TABLE 2

Loading Point (Based on) from Estimate above		Level of Concern	Water Resources at Risk	Loading Points
N	POD			
Less than 500	Less than 50	Minor	No	0
501 to 1000	51 to 100	Medium	Priority	15
1001 to 5000	101 to 500	Major	Priority	40
5001 to 10000	501 to 1000	Critical	Priority	75
10001 +	1001 +	Extreme	Priority	90

Comments
Loading Points  
Loading Points:

**Site Information - Receiving water feature and buffer considerations: (see exhibit 1 to determine if points are to be given in Section A below for overland flow to a vulnerable water feature or Section B below for a concentrated flow to a vulnerable water feature)**

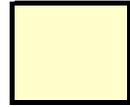
<b>(A1) Overland Flow - Proximity to Vulnerable Water Feature:</b>	<u>Comments</u>									
<table border="0" style="width: 100%;"> <tr> <td style="width: 50%;">&gt; 100 Feet</td> <td style="width: 50%;">40 points</td> </tr> <tr> <td>100 - 100 Feet</td> <td>30 points</td> </tr> <tr> <td>500 - 500 Feet</td> <td>15 points</td> </tr> <tr> <td>&gt; 500 Feet</td> <td>0 points</td> </tr> </table>	> 100 Feet	40 points	100 - 100 Feet	30 points	500 - 500 Feet	15 points	> 500 Feet	0 points	<p><i>Distance from edge of concentrated/ feeding area to edge of a water feature which includes open sinkholes, springs, streams (perennial or intermittent), wetlands and ponds.</i></p>	<div style="border: 2px solid black; width: 50px; height: 50px; background-color: yellow;"></div>
> 100 Feet	40 points									
100 - 100 Feet	30 points									
500 - 500 Feet	15 points									
> 500 Feet	0 points									
<p><b>(A2) Buffer width adjacent to the selected water feature:</b></p> <table border="0" style="width: 100%;"> <tr> <td style="width: 50%;">&gt; 34 Feet</td> <td style="width: 50%;">20 points</td> </tr> <tr> <td>35 - 100 Feet</td> <td>10 points</td> </tr> <tr> <td>&gt; 100 Feet</td> <td>0 points</td> </tr> <tr> <td>0</td> <td></td> </tr> </table>	> 34 Feet	20 points	35 - 100 Feet	10 points	> 100 Feet	0 points	0		<p><i>A buffer is a vegetative area which effectively filters overland flow to the adjoining water feature (0-34' is not an effective buffer). Source: P Index and FOTG.</i></p>	<div style="border: 2px solid black; width: 50px; height: 50px; background-color: yellow;"></div>
> 34 Feet	20 points									
35 - 100 Feet	10 points									
> 100 Feet	0 points									
0										
<b>Sum of A1 and A2:</b>		<b>0</b>								

**or**

<b>(B) Concentrated Flow - Does the runoff from the ACA enter a transport feature within 300 feet of the edge of the ACA?</b>								
<table border="0" style="width: 100%;"> <tr> <td style="width: 50%;">Yes</td> <td style="width: 50%;">40 points</td> </tr> <tr> <td></td> <td>0 points</td> </tr> <tr> <td>No</td> <td>0</td> </tr> </table>	Yes	40 points		0 points	No	0	<p><i>Transport Feature - A swale, grassed waterway, gully, or similar feature where concentrated water flow occurs. (This transport feature must flow into the vulnerable water feature in the above question)</i></p>	<div style="border: 2px solid black; width: 50px; height: 50px; background-color: yellow;"></div>
Yes	40 points							
	0 points							
No	0							
<b>The greater of A or B (maximum 60 points can be earned here):</b>		<b>0</b>						

**Is the Vulnerable Water feature or Receiving Water Feature above classified as high value water?**

Yes = 20 points  
 No = 0 points



High Value Water - A stream, lake, or estuary designated within a TMDL, watershed based on the 2002 Impaired Waters List, endangered species, and/or designated trout waters.

**Site Information:**

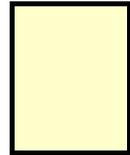
**Scoring Boxes**

Comments

**Environmental Sensitivity Index:**

High = 15 points  
 Medium = 10 points  
 Low = 0 points

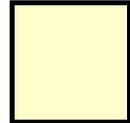
From 2005: Virginia Nutrient Management Standards and Criteria, Revised 10/2005. Table 1-4. Includes soils with leaching potential, shallow soils and poor drainage.  
 (Use soil series at the existing HUA/ACA.)



**Slope:**

0-5% = 0 points  
 2-6% = 5 points  
 6-15% = 10 points  
 15-20% = 20 points

General slope of the HUA/ACA from the edge of healthy area to the vulnerable water feature.



**Total Score:**

**0**

**Note: If total is 120 or greater, there is a significant risk of water resource impairment. Follow the planning process to address this concern. Consider both structural and non-structural alternatives.**

**Definitions:**

**Buffer** - A permanently vegetated area with a minimum width of 20 feet.

**High Value Water** - A stream, lake, or wetland designated within a TMDL watershed based on the 2002 Regional Waters List.

interconnected, and/or designated flow routes.

**Karst features** - Includes sinkholes, fractures rock outcrops, and fractured limestone that are direct conduits to ground water.

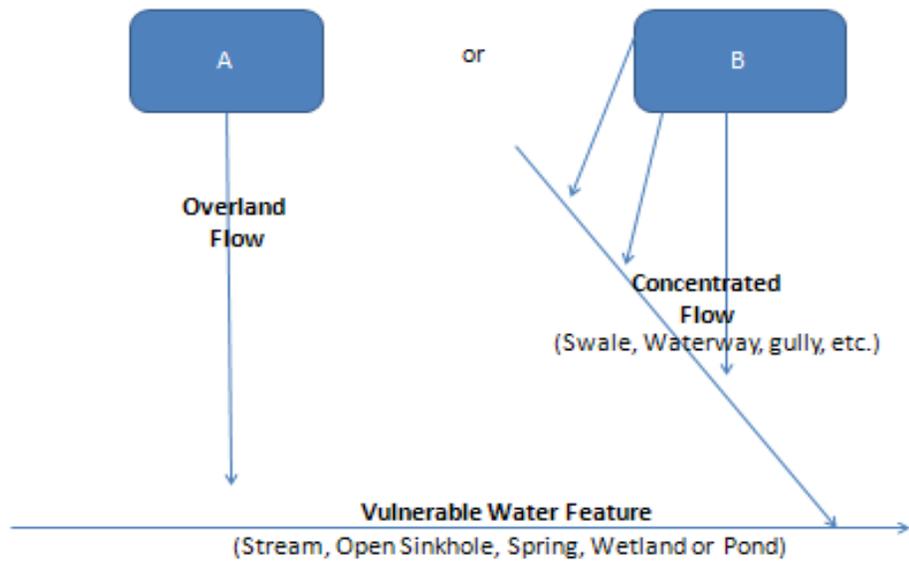
**Vulnerable Water Feature** - An open sinkhole, stream (perennial or intermittent), spring, wetland, or pond that is

located overland flow.

**Transport Feature** - A reach, grassed waterway, gully, or similar feature where concentrated water flow occurs.

**HUA/ACA** - Areas which have a high concentration of herbicide, large amounts of water and the ability to sustain vegetation.

Exhibit 1







## VIRGINIA AGRICULTURAL VOLUNTARY BEST MANAGEMENT PRACTICE (BMP) ASSESSMENT AUTHORIZATION

Land owner or manager having control of the land where BMPs are implemented:

Name: \_\_\_\_\_ Phone: (H) \_\_\_\_\_ (M) \_\_\_\_\_

Email: \_\_\_\_\_ Address: \_\_\_\_\_

Person to Contact (if different than above): \_\_\_\_\_

Phone (H): \_\_\_\_\_ (M) \_\_\_\_\_ Email: \_\_\_\_\_

I hereby authorize staff from the \_\_\_\_\_ Soil and Water Conservation District, access to the following farm(s) for purpose of conducting on site assessment(s) of BMPs that may be documented and reported to project reductions of nonpoint source pollutants that impact water quality. Check one:

- SWCD staff must contact me prior to accessing the named farm(s) and performing any site assessment(s) of one or more farms
- SWCD staff have my permission to access the named farm(s) at any time over the next 5 years to perform any site assessment(s) without contacting me

Farm #1 Name: \_\_\_\_\_, located (provide sufficient explanation to ensure the location of authorized land is clear):  
\_\_\_\_\_  
\_\_\_\_\_

Farm #2 Name: \_\_\_\_\_, located (provide sufficient explanation to ensure the location of authorized land is clear):  
\_\_\_\_\_  
\_\_\_\_\_

(Use the reverse side of this sheet if additional farms are authorized for BMP assessment and reporting)

Printed Name of Land owner or manager having control of the land where BMPs are implemented _____	
Signature: _____	Date: _____
<b>I understand that my authorization remains in effect until I revoke such authorization</b>	

Any information collected pursuant to section §2.2-220.3 of the Code of Virginia shall be exempt from the Freedom of Information Act (§2.2-3700 et seq.)  
Virginia Department of Conservation and Recreation programs, activities, and employment opportunities are available to all people regardless of race, color, religion, sex, age, national origin, or political affiliation. An equal opportunity/ affirmative action employer.

Farm #3 Name: \_\_\_\_\_, located (provide sufficient explanation to ensure the location of authorized land is clear):

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Farm #4 Name: \_\_\_\_\_, located (provide sufficient explanation to ensure the location of authorized land is clear):

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Farm #5 Name: \_\_\_\_\_, located (provide sufficient explanation to ensure the location of authorized land is clear):

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Farm #6 Name: \_\_\_\_\_, located (provide sufficient explanation to ensure the location of authorized land is clear):

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Farm #7 Name: \_\_\_\_\_, located (provide sufficient explanation to ensure the location of authorized land is clear):

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Farm #8 Name: \_\_\_\_\_, located (provide sufficient explanation to ensure the location of authorized land is clear):

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Farm #9 Name: \_\_\_\_\_, located (provide sufficient explanation to ensure the location of authorized land is clear):

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