

PROJECT MANAGER \_\_\_\_\_  
 SURVEYED BY \_\_\_\_\_  
 DESIGN SUPERVISED BY \_\_\_\_\_  
 DESIGNED BY \_\_\_\_\_

## STORMWATER POLLUTION PREVENTION PLAN (SWPPP) GENERAL INFORMATION SHEET

The information contained in the SWPPP General Information sheets is intended to comply with the requirements of the VPDES General Permit For Discharges Of Stormwater From Construction Activities (the VPDES Construction Permit) issued July 1, 2014 and VDOT's approved Annual ESC and SWM Standards and Specifications.

The SWPPP General Information sheets are to be completed and included in the construction plan set (or other such documents) for land disturbance (construction) activities that disturb an area equal to or greater than 10,000 square feet, or equal to or greater than 2,500 square feet in the area defined as Tidewater, Virginia in the Virginia Chesapeake Bay Preservation Act.

The VDOT RLD will ensure that the information shown on the SWPPP General Information sheets is updated/revised as necessary in order to reflect changes that may occur during the construction phase of the land disturbing (construction) activity. The updated/revised sheets shall be maintained with the designated record set of plans (or other such documents) for the land disturbance (construction) activity.

X Denotes information that is to be provided/completed by the VDOT RLD.  
 XX Denotes information that is to be provided/completed by the contractor.

REVISED	STATE	STATE		SHEET NO.
	ROUTE	PROJECT		
	VA.	00	0000-000-000, RW-000 C-000	0

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

### SECTION I GENERAL INFORMATION

1. Activity Description - (insert appropriate text)

2. This land disturbance (construction) activity site is located in (insert the appropriate County/City) and approximately (insert the appropriate number to the nearest one hundredth of an acre) acres will be disturbed by excavation, grading or other construction activities.

3. (Include one of the following notes as appropriate)

This proposed activity disturbs one acre or greater and requires coverage under the VPDES General Permit For Discharges Of Stormwater From Construction Activities (the VPDES Construction Permit) as issued by the DEQ. A copy of the VPDES Construction Permit (VAR10), the registration information (LD-445 form) and the permit coverage letter received from DEQ shall be maintained with other SWPPP documents for this land disturbing (construction) activity.

This proposed activity disturbs less than one acre and is exempt from coverage under the VPDES General Permit For Discharges Of Stormwater From Construction Activities (the VPDES Construction Permit) as issued by the DEQ.

This proposed activity is exempt from coverage under the VPDES General Permit For Discharges Of Stormwater From Construction Activities (the VPDES Construction Permit) as issued by the DEQ because it is considered a routine maintenance activity (i.e., the proposed activity is intended to maintain the original line and grade, hydraulic capacity or original construction of the project or involves the paving of an existing roadway with a compacted or impervious surface and the reestablishment of associated ditches and shoulders).

4. The ESC and SWM plans (where applicable) for this land disturbance (construction) activity have been developed in accordance with VDOT's Annual Erosion and Sediment Control and Stormwater Management Standards and Specifications as approved by the DEQ.

5. (Insert VDOT person's name and job title) is designated as the RLD for this land disturbance (construction) activity.

6. This land disturbance (construction) activity discharges stormwater to the following surface waters that have been identified as impaired in the 2012 305(b)/303(d) Water Quality Assessment Integrated Report:  
 (List name of surface waters and pollutant(s) of concern, when applicable)

7. This land disturbance (construction) activity discharges stormwater to the following surface waters that have a TMDL waste load allocation established and approved prior to July 1, 2014 for sediment, total suspended solids, turbidity, nitrogen or phosphorus:  
 (List name of surface waters and pollutant(s) of concern, when applicable)

8. This land disturbance (construction) activity discharges stormwater to the following surface waters that have been identified as exceptional in Section 9VAC25-260-30 A 3 c of the Virginia Administrative Code:  
 (List name of surface waters)

9. Locations of surface waters and locations where concentrated stormwater is discharged from this land disturbance (construction) activity are identified in the construction plan set (or other such documents) for this land disturbance (construction) activity.

XX 10. The location of on-site support facilities that will be covered under the VPDES Construction Permit coverage for this land disturbance (construction) activity shall be provided by the contractor and identified on the record set of plans or in other appropriate contract documents. Support facilities shall include, but not be limited to, borrow and disposal areas, construction and waste material storage areas, equipment and vehicle washing, maintenance, storage and fueling areas, storage areas for fertilizers, fuels or chemicals, concrete wash out areas, sanitary waste facilities and any other areas that may generate a stormwater or non-stormwater discharge directly related to the construction site.

XX 11. The location of the on-site rain gage that will be used to determine the occurrence of a measurable storm event for the purposes of ESC and Pollution Prevention inspections will be provided by the contractor and identified on the record set of plans or in other appropriate SWPPP documents for this land disturbance (construction) activity.

The rain gage shall be observed daily at (insert time) to determine the occurrence of a measurable storm event (i.e., 0.25 inches of rainfall or greater in a 24 hour period). A log book shall be maintained to record observation information which shall include (1) the date, (2) the time, (3) whether or not rainfall is occurring at the time of the observation, (4) the amount of accumulated rainfall in the gage, if any, and (5) whether or not an inspection is required based on the amount of accumulated rainfall in the gage.

If there is no rainfall occurring at the time of the observation, the observation information shall be noted in the log book and the rain gage emptied and replaced. An inspection is required if there is 0.25 inches or more accumulation noted in the rain gage.

If there is rainfall occurring at the time of the observation, the observation information is to be noted in the log book. The rain gage is not to be emptied but left to accumulate additional rainfall until the conclusion of the rainfall event. At the conclusion of the rainfall event, an observation of the rain gage shall be made and the observation information shall be noted in the log book and the rain gage emptied and replaced. An inspection is required if there is 0.25 inches or more accumulation noted in the rain gage.

X 12. The name of the VDOT individual(s) responsible for the inspection of the erosion and sediment control and pollution prevention measures on this land disturbance (construction) activity is identified on the LD-445E form which will be maintained with the other SWPPP documents for this land disturbance (construction) activity (Note: Individual(s) shall be certified through the DEQ ESC Inspector Certification Program).

### SECTION II EROSION AND SEDIMENT CONTROL

1. The following variances to the Virginia ESC Regulations have been approved by the DEQ for this land disturbance (construction) activity: (list all approved variances; include a brief description of the variance, the date approved and the approving DEQ Office)

2. The intended sequence and timing of activities that disturb soils at the site (e.g., grubbing, excavation, grading, utilities and infrastructure installation, etc.) shall be provided by the contractor in accordance with Section 108.03 of the VDOT R&B Specifications and shall be included with the other SWPPP documents for this land disturbance (construction) activity.

3. Directions of stormwater flow and approximate slopes anticipated after major grading activities are identified in the construction plan set (or other such documents) for this land disturbance (construction) activity.

4. Areas of soil disturbance and areas of the site which will not be disturbed are identified in the construction plan set (or other such documents) for this land disturbance (construction) activity.

5. Locations of major structural and nonstructural ESC measures intended to filter, settle or similarly remove sediment are identified in the construction plan set (or other such documents) for this land disturbance (construction) activity.

6. Locations where stabilization practices are expected to occur are identified in the construction plan set (or other such documents) for this land disturbance (construction) activity.

7. A description of interim and permanent stabilization practices for the site are identified in the applicable sections of the documents identified in the Note 1 of Section III.

XX 8. A record of the dates when major grading activities occur, when construction activities temporarily or permanently cease on a portion of the site, and when stabilization measures are initiated will be provided by the contractor and maintained with the record set of plans or other SWPPP documents for this land disturbance (construction) activity.

9. A description and schedule of procedures to maintain vegetation, erosion and sediment control measures and other protective measures in good and effective operating conditions are identified in Sections 107.16 and 303.03 of the VDOT R&B Specifications.

10. Nutrients shall be applied in accordance with Sections 603 and 604 of the VDOT Road and Bridge Specifications. Nutrients shall not be applied during rainfall events.

11. All engineering calculations supporting the design of erosion and sediment control measures proposed for this land disturbance (construction) activity are contained in the project drainage file located in the (insert appropriate location, i.e., VDOT Central Office Hydraulics Section or the VDOT (specify) District Hydraulics Section or the VDOT (specify) Residency Office) and will be made available for review upon request during normal business hours.

12. The temporary erosion and siltation control items shown on the ESC Plan for this land disturbing (construction) activity are intended to provide a general plan for controlling erosion and sediment within the project limits. The ESC Plan is based on field conditions at the time of plan development and an assumed sequence of construction for the project. The contractor, in conjunction with the VDOT Project Engineer and/or ESC Inspector, shall adjust the location, quantity and type of erosion and sediment control items required based on the actual field conditions encountered at the time of construction and the actual scheduling and sequencing of the construction activities. Significant changes to the proposed ESC Plan (e.g., those that require an engineering analysis) shall be submitted to the applicable District Hydraulics Engineer for review and approval. Any changes to the proposed ESC Plan must be noted on the designated record set of plans which shall be retained on the project site and made available upon request during normal business hours.

13. The areas beyond the project's construction area are to be protected from siltation. Perimeter controls such as silt fence, diversion dikes, turbidity curtains, etc. shall be installed prior to any grubbing operations or other earth moving activities.

14. Temporary earthen structures such as dikes and berms are to be stabilized immediately upon installation. Stabilization may include temporary or permanent seeding, riprap, aggregate, sod, mulching, and/or soil stabilization blankets and matting in conjunction with seeding.

15. All channel relocations are to be constructed during the earliest stage of construction and shall be constructed in accordance with all applicable permit requirements and shall be constructed in the dry wherever possible. Stabilization or vegetation shall be established before flow is redirected through the constructed area as directed by the Engineer.

16. The contractor shall plan and implement his land disturbance operations in order to:
- Control the volume and velocity of stormwater runoff within the site to minimize erosion.
  - Control the peak flow rates, volume and velocity of stormwater discharges to minimize erosion at outlets and in downstream channels.
  - Minimize the amount of soil exposed.
  - Minimize the disturbance of steep slopes.
  - Minimize sediment discharge from the site.
  - Provide and maintain natural buffers around surface waters, direct stormwater runoff to vegetated areas and maximize stormwater infiltration, unless infeasible.
  - Minimize soil compaction (except in those areas where compaction is required by the contract documents) and preserve topsoil where feasible.

XX 17. The name of the individual(s) or contractor(s) responsible for the installation and maintenance of the erosion and sediment control measures shall be supplied by the contractor and maintained with the other SWPPP documents for this land disturbance (construction) activity.

18. Soil stockpiles temporarily placed within the project area or on VDOT right of way or easement shall be stabilized or protected with sediment trapping measures.

19. A construction entrance or other approved measure shall be installed at all locations where construction vehicular traffic access routes intersect paved public roads in order to minimize the transport of sediment by vehicular tracking onto the paved surface. Where sediment is transported onto a paved public road surface, the road shall be cleaned thoroughly at the end of each work day by shoveling or sweeping. Removed sediment shall be disposed of in accordance with Section 106.04 of the R&B Specifications.

#### ACRONYMS

- BMP - Best Management Practice
- DEQ - Department of Environmental Quality
- EPA - U.S. Environmental Protection Agency
- ESC - Erosion and Sediment Control
- IIM - Instructional and Informational Memorandum
- R&B - Road and Bridge
- RLD - Responsible Land Disturber
- SWM - Stormwater Management
- SWPPP - Stormwater Pollution Prevention Plan
- TMDL - Total Maximum Daily Load
- VDOT - Virginia Department of Transportation
- VPDES - Virginia Pollutant Discharge Elimination System
- VSMP - Virginia Stormwater Management Program
- VESCP - Virginia Erosion and Sediment Control Program

Revised 9/8/14  
 Sheet 1 of 3

PROJECT	SHEET NO.
0000-000-000	0

PROJECT MANAGER \_\_\_\_\_  
 SURVEYED BY \_\_\_\_\_  
 DESIGN SUPERVISED BY \_\_\_\_\_  
 DESIGNED BY \_\_\_\_\_

## STORMWATER POLLUTION PREVENTION PLAN (SWPPP) GENERAL INFORMATION SHEET

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	VA.	00	0000-000-000, RW-000 C-000	0

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The VDOT RLD will ensure that the information shown on the SWPPP General Information sheets is updated/revised as necessary in order to reflect changes that may occur during the construction phase of the land disturbing (construction) activity. The updated/revised sheets shall be maintained with the designated record set of plans (or other such documents) for the land disturbance (construction) activity.

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### SECTION III SWPPP

1. All documents related to the SWPPP for this land disturbance (construction) activity shall be maintained at the activity site and shall be readily available for review upon request during normal business hours. Such documents include, but are not limited to, the construction plans (or other such documents), the ESC Plan, the Pollution Prevention Plan, the post construction SWM Plan (if applicable), the VDOT R&B Standards and Specifications, Supplemental Specifications, Special Provisions and Special Provision Copied Notes. Documents related to stormwater pollution prevention which are not a part of those documents referenced above, such as a copies of the VPDES Construction Permit coverage letter (when applicable) and the VPDES General Permit For Discharges Of Stormwater From Construction Activities (when applicable) and those required to be developed by the contractor for pollution prevention associated with any on-site support facilities being included in the VPDES Construction Permit coverage for this land disturbance (construction) activity are to be maintained at the activity site with the other SWPPP documents for this land disturbance (construction) activity. Where no facilities are available at the activity site to maintain the SWPPP documents, they are to be kept by or with the designated RLD at a location convenient to the activity site where they would be made available for review upon request during normal business hours.

2. The SWPPP and any subsequent amendments, modifications and updates shall be implemented from commencement of land disturbance until termination of VPDES Construction Permit coverage or completion of land disturbance (construction) activities where no VPDES Construction Permit coverage is required.

XX 3. For all on-site support facilities that will be included in the VPDES Construction Permit coverage for this land disturbance (construction) activity, the contractor shall develop a SWPPP in accordance with Section 107.16 of the VDOT Road and Bridge Specifications. The SWPPP for the on-site support facilities shall be maintained with and become a component of the SWPPP for this land disturbance (construction) activity. Support facilities shall include, but not be limited to, borrow and disposal areas, construction and waste material storage areas, equipment and vehicle washing, maintenance, storage and fueling areas, storage areas for fertilizers, fuels or chemicals, concrete wash out areas, sanitary waste facilities and any other areas that may generate stormwater or non-stormwater discharge directly related to the construction site.

X 4. By completing and submitting the SWPPP Certification form LD-445E, the RLD, or his authorized representative, certifies that all documents identified herein to be supplied by the contractor will be reviewed, approved and included with the other SWPPP documents for this land disturbance (construction) activity prior to start of work in those areas identified by such information.

5. For those land disturbing (construction) activities requiring coverage under the VPDES Construction Permit, the SWPPP shall be made available for review upon the request of the DEQ, the EPA, the VSMP Authority, the VESCP Authority, local government officials or the operator of a municipal separate storm sewer system (MS4) receiving discharge from the construction site.

X 6. For those land disturbing (construction) activities requiring coverage under the VPDES Construction Permit, the VDOT RLD shall post, or have posted, a copy of the General Permit coverage letter and a copy of a completed LD-445A form, noting the name and contact information for the VDOT person responsible for the land disturbing (construction) activity and its SWPPP, outside the project's construction office along with other Federal and State mandated information. Where there is no construction office (e.g., a maintenance activity), the permit coverage letter and the LD-445A form are to be maintained with the other SWPPP documents for the land disturbing (construction) activity.

7. The SWPPP shall be made available for review by the public upon request. Such reviews shall be at a time and publicly accessible location convenient to the VDOT and shall be scheduled during normal business hours and no less than once per month.

### SECTION IV POST CONSTRUCTION STORMWATER MANAGEMENT

*Choose the appropriate note 1 or 2 that is applicable to the proposed post construction SWM Plan for this land disturbance (construction) activity. If note 1 is applicable, then choose the appropriate note(s) to through 1d). Delete, strikethrough or mark as NA those notes not applicable.)*

1. This land disturbance (construction) activity is grandfathered under Section 9VAC25-870-48 of the VSMP Regulations and utilizes the Part IIC technical criteria (i.e., Performance or Technology Based, MS 19, etc.) in Section 9VAC25-870-93 et seq. of the VSMP Regulations. As such:

- a. This land disturbance (construction) activity does not require permanent water quality SWM facilities because the post development percent impervious of the site is less than 16%.
- b. The following outfalls do not require a permanent water quality SWM facility because the post development percent impervious of the site draining to each noted outfall is less than 16%. (List all applicable locations)
- c. This land disturbing (construction) activity is designated a Category 2 project and complies with post development water quality requirements in accordance with the provisions of the VDOT IIM-LD-195.8 Section 19.3.
- d. This land disturbing (construction) activity complies with post development water quality requirements in accordance with the provisions of the VDOT IIM-LD-195.8 Section 19.2.

2. This land disturbance (construction) activity utilizes the Part IIB technical criteria (i.e., Runoff Reduction Method, Energy Balance Equation, etc.) in Section 9VAC25-870-62 et seq. of the VSMP Regulations.

3. An exception for (number) pounds of phosphorus removal has been granted for this land disturbance (construction) activity by the DEQ in its letter dated (date).

4. The permanent onsite SWM facilities or offsite strategies proposed to meet the water quality/quantity requirements for this land disturbance (construction) activity are listed in Section VI.

5. A description of all post-construction stormwater management measures that will be installed during the construction process to control pollutants in stormwater discharges after construction operations have been completed is included in the construction plan set (or other such documents) for this land disturbance (construction) activity.

6. All engineering calculations supporting the design of the post-construction stormwater management measures for this land disturbance (construction) activity, including an explanation of the technical basis used to select the practices, are contained in the project drainage file located in the (insert appropriate location, i.e., VDOT Central Office Hydraulics Section or the VDOT (specify) District Hydraulics Section or the VDOT (specify) Residency Office) and will be made available for review upon request during normal working business hours.

### SECTION V - POLLUTION PREVENTION PLAN

1. The following non-stormwater discharges from this land disturbing (construction) activity and any on-site support facilities are prohibited:

- a. Wastewater from concrete washouts.
- b. Wastewater from the washout and cleanout of stucco, paint, form release oils, curing compounds and other construction materials.
- c. Fuels, oils or other pollutants used in vehicle and equipment operation and maintenance.
- d. Oils, toxic substances or hazardous substances from spills or other releases.
- e. Soaps, solvents or detergents used in equipment and vehicle washing.
- f. There shall be no discharge of floating solids or visible foam in other than trace amounts

2. The following non-stormwater discharges from this land disturbing (construction) activity and any on-site support facilities are allowed when discharged in compliance with the VPDES Construction Permit:

- a. Discharges from fire fighting activities.
- b. Fire hydrant flushings.
- c. Waters used to wash vehicles or equipment where soaps, solvents or detergents have not been used and the wash water has been filtered, settled or similarly treated prior to discharge.
- d. Water used to control dust that has been filtered, settled or similarly treated prior to discharge.
- e. Potable water sources including uncontaminated waterline flushings.
- f. Routine external building wash down where soaps, solvents or detergents have not been used and the wash water has been filtered, settled or similarly treated prior to discharge.

- g. Pavement wash waters where spills or leaks of toxic or hazardous materials have not occurred (or where all spilled or leaked material has been removed prior to washing), where soaps, solvents or detergents have not been used and where the wash water has been filtered, settled or similarly treated prior to discharge.
- h. Uncontaminated air conditioning or compressor condensate.
- i. Uncontaminated ground water or spring water.
- j. Foundation or footing drains where flows are not contaminated with process materials such as solvents.
- k. Uncontaminated excavation dewatering, including dewatering trenches and excavations that have been filtered, settled or similarly treated prior to discharge.
- l. Landscape irrigation.

XX 3. The contractor shall develop a Pollution Prevention Plan to address any of his on-site operations that have a potential to generate a pollutant that may reasonably be expected to affect the quality of stormwater discharges from this land disturbance (construction) activity. The Pollution Prevention Plan shall be developed in accordance with Section 107.16(e) of the VDOT Road and Bridge Specifications and shall include a narrative with appropriate plan detail and shall be provided on standard 8.5 x 11 inch paper or larger and shall:

- a. Identify the potential pollutant-generating activities and the pollutant that is expected to be exposed to stormwater.
- b. Describe the location where the potential pollutant-generating activities will occur, or if identified on the record set of plans, reference the record set of plans.
- c. Identify all non-stormwater discharges, as described in note two of this section, that are or will be commingled with stormwater discharges from the construction activity, including any on-site support activities.
- d. Identify the person(s) or contractor(s) responsible for implementing and maintaining the pollution prevention practice or practices for each pollutant-generating activity.
- e. Describe the pollution prevention practices and procedures that will be implemented to:
  - 1) Prevent and respond to leaks, spills, and other releases, including procedures for expeditiously stopping, containing, and cleaning up spills, leaks, and other releases, and procedures for reporting leaks, spills, and other releases in accordance with Section 107.16 of the VDOT Road and Bridge Specifications and the requirements within the VPDES Construction Permit.
  - 2) Prevent the discharge of spilled and leaked fuels and chemicals from vehicle fueling and maintenance activities.
  - 3) Prevent the discharge of soaps, solvents, detergents, and wash water from construction materials, including procedures for the clean-up of stucco, paint, form release oils, and curing compounds.
  - 4) Minimize the discharge of pollutants from vehicle and equipment washing, wheel wash water, and other types of washing.
  - 5) Direct concrete wash water into a leak-proof container or leak-proof settling basin. The container or basin shall be designed so that no overflows can occur due to inadequate sizing or precipitation. Hardened concrete wastes shall be removed and disposed of in a manner consistent with the handling of other construction wastes. Liquid concrete wastes shall be removed and disposed of in a manner consistent with the handling of other construction wash waters and shall not be discharged to surface waters.
  - 6) Minimize the discharge of pollutants from storage, handling, and disposal of construction products, materials, and wastes including building products (such as asphalt sealants, copper flashing, roofing materials, adhesives, and concrete admixtures), pesticides, herbicides, insecticides, fertilizers, landscape materials, construction and domestic wastes (such as packaging materials), scrap construction materials, masonry products, timber, pipe and electrical cuttings, plastics, styrofoam, concrete, and other trash or building materials.
  - 7) Prevent the discharge of fuels, oils, and other petroleum products, hazardous or toxic wastes, and sanitary wastes.
  - 8) Address any other discharge from any potential pollutant-generating activity not listed herein.
  - 9) Describe and implement procedures for providing pollution prevention awareness (including but not limited to prevention practices, disposal practices and appropriate disposal locations) for all applicable wastes (including any wash water), to appropriate personnel.

Revised 9/8/14

Sheet 2 of 3

PROJECT	SHEET NO.
0000-000-000	0

PROJECT MANAGER <Project\_Mgr\_Name (000) 000-0000 (District)>  
 SURVEYED BY <Surveyor\_Name (000) 000-0000 (District)>  
 DESIGN SURVEYOR <Design\_Surveyor\_Name (000) 000-0000 (District)>  
 DESIGNED BY <Designer\_Name (000) 000-0000 (District)>

## STORMWATER POLLUTION PREVENTION PLAN (SWPPP) GENERAL INFORMATION SHEET

REVISED	STATE	STATE		SHEET NO.
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### SECTION VI - PERMANENT BMP INFORMATION <sup>△</sup>

X Denotes information that is to be completed by the VDOT RLD.  
 ( ) See note referenced by number in parentheses.

INSTALLED BMP INFORMATION  
Table A  
(VDOT Owned/Operated)

BMP Type (See Table 1 and 3 )	County or City	Latitude/Longitude (1)		State Hydrologic Unit Code (7)	Receiving Stream Name (2)	Acres Treated Per BMP (3)		
		LAT	LONG			Impervious	Pervious	TOTAL

ALTERNATIVE BMP INFORMATION  
Table B

BMP Type (See Table 2 )	Name of Nutrient Bank or Broker (6)	County or City (5)	Latitude/Longitude (1) (5)		State Hydrologic Unit Code (5) (7)	Project Acres Treated Per BMP (3)			Nutrient Credits (lbs./acre/year) Acquired (3) (6)
			LAT	LONG		Impervious	Pervious	TOTAL	

- NOTES:
- (1) In decimal degrees to the nearest 15 seconds.  
 Example - 45° 30' 47" = 45.5125°
  - (2) For streams with no names, list "(Unnamed Tributary to (closest stream name))".
  - (3) Show acres treated to the nearest one tenth or pounds purchased to the nearest one hundredth.
  - (4) Include agreements with off-site BMP owners.
  - (5) Information pertains to the alternative BMP option location, where applicable.
  - (6) Applies to the purchase on nutrient credits only.
  - (7) 4th Order for Nutrient Credit Banks and 6th order for all other BMP types.
  - (8) Final approved shop drawings of Manufactured Treatment Devices (MTDs) are to be included with the BMP information submitted with the LD-445D form.

<sup>△</sup> Any changes to the proposed SWM Plan or BMPs necessitated during the construction phase of the project that affects the proposed construction details or potentially affects the information shown in the BMP Tables A and/or B shall be coordinated by the VDOT RLD with the appropriate VDOT District Hydraulics Engineer. The construction plans and the BMP Tables A and/or B are to be formally revised to reflect any authorized/approved changes to the proposed SWM Plan and/or the proposed BMP construction details. All plan revisions shall be completed in accordance with the Road Design Manual and the Construction Division IIM-CD-2013-12.01, signed and sealed in accordance with Department's sealing and signing policy IIM-LD-243 and filed with the record set of construction plans maintained in the VDOT Central Office Plan File Room (Falcon Web Suite). Prior to submitting for termination of coverage under the VPDES General Permit For The Discharge Of Stormwater From Construction Activities, the RLD shall have the District Maintenance Infrastructure Manager review the BMPs installed with the project (BMP Table A) for acceptance of maintenance responsibility and to obtain a Maintenance ID number for each BMP listed in BMP Table A. The RLD shall use the information in BMP Tables A and B along with the assigned Maintenance ID number and the date that the BMP became functional as a permanent control measure (for BMPs in Table A only) to complete the LD-445D form when certifying the construction of the BMPs and submitting for termination of coverage under the VPDES General Permit For The Discharge Of Stormwater From Construction Activities.

- ( ) See note referenced by number in parentheses.
- Table 1: Permanent BMP Types (Based on 1999 Va. SWM Handbook)
- Bio-Retention Basin
  - Bio-Retention Filter
  - Constructed Stormwater Wetlands
  - Extended Detention Basin
  - Extended Detention Basin Enhanced
  - Grassed Swale
  - Infiltration Basin
  - Infiltration Trench
  - Manufactured Treatment Device (MTD) (8)
  - Retention Basin I
  - Retention Basin II
  - Retention Basin III
  - Sand Filter
  - Vegetated Filter Strip
  - Other Approved Types (List Type)
- Table 2: Alternative BMP Types
- Comprehensive SWM Plan (Regional) Facility
  - Pollutant Loading Pro Rata Share Program
  - Purchase of Nutrients Credits
  - Other Approved Options (List Type) (4)
- Table 3: Permanent BMP Types (Based on BMP Clearing House)
- Sheet Flow to Vegetated Filter Strip
  - Grass Channel
  - Soil Compost Amendment
  - Permeable Pavement
  - Infiltration Practice
  - Bioretention
  - Dry Swale
  - Wet Swale
  - Filtering Practice
  - Constructed Wetlands
  - Bioretention Conservation
  - Extended Detention Pond
  - Wet Pond
  - Manufactured Treatment Device (MTD) (8)
  - Other Approved Types (List Type) (4)

- ACRONYMS
- BMP - Best Management Practice
  - DEQ - Department of Environmental Quality
  - EPA - U.S. Environmental Protection Agency
  - ESC - Erosion and Sediment Control
  - IIM - Instructional and Informational Memorandum
  - R&B - Road and Bridge
  - RLD - Responsible Land Disturber
  - SWM - Stormwater Management
  - SWPPP - Stormwater Pollution Prevention Plan
  - TMDL - Total Maximum Daily Load
  - VDOT - Virginia Department of Transportation
  - VPDES - Virginia Pollutant Discharge Elimination System
  - VSMP - Virginia Stormwater Management Program
  - VESCP - Virginia Erosion and Sediment Control Program

PROJECT 0000-000-000	SHEET NO. 0
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