STORMWATER POLLUTION PREVENTION PLAN
for
MAINTENANCE FACILITY ACTIVITIES
at
Norfolk State University

Norfolk, Virginia

October, 2015

Prepared for:
Norfolk State University
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INTRODUCTION

The Stormwater Pollution Prevention Plan (Plan) outlined herein is provided to the project owner, Norfolk State University. The maintenance facility is located within the Norfolk State University’s main campus on the south side of Campus. The site is bounded by South Campus Drive to the south, east and west, and Presidential Pkwy to the North.

The site is currently zoned IN-2 – Institutional campus District, located within the surface watershed of the Elizabeth River.

This Storm Water Pollution Prevention Plan (SWPPP) has been developed in accordance with the requirements of the Virginia Storm water Management Program (VSMP) General Permit for Discharges of Storm water from Construction Activities (Permit), as defined in General Permit No. VARIO (Appendix A).

General information for the project is as follows:

**Estimated Project Dates**
Start: On going
Completion: on going

**Project Site**
Name: Norfolk State University, Maintenance Facility
Address: 700 Park Avenue, Norfolk, Virginia, 23504
Latitude/Longitude: 36° 50’ 46.72” N, -76° 15’ 57.91” W

**Project Operator**
Name: Norfolk State University, Maintenance Facility
Address: 700 Park Avenue, Norfolk, Virginia, 23504
Representative: Patricia A. Perkins, Director
Norfolk State University
Environmental Health, Safety and Risk Management Office
Facilities Management Department

**Construction Operator (Prime Contractor)**
This information to be filled in upon award of the Contract.
Name: ________________________________
Address: ________________________________
Representative: ________________________________
RLD # ________________________________ (expires ________________)

____________________________________
Patricia A. Perkins, Director
Norfolk State University, Maintenance Facility
Environmental Health, Safety and Risk Management Office
Discharges of Storm water from Construction Activities (Permit), as defined in General Permit No. VARIO (Appendix A).

Appendix A
SECTION 1

GENERAL INFORMATION

A. GENERAL LOCATION

The maintenance facility is located south of the Presidential Pkwy. Vicinity and area maps generally showing the site along with the site plan showing proposed scope of work are included in this report (Figures 1 and 2, Appendix B).

B. SITE ACTIVITIES

The project area is approximately 2.28 acres which includes maintenance facility building, parking, and landscape. This facility is used for storage, fueling, and maintenance of the vehicles and equipment used by the site maintenance staff and storage of fertilizers and other chemicals.

Appendix C contains the Erosion and Sediment (E&S) Control details for the project. All the inlets within boundary indicated in Appendix C shall have silt fence and silt sacs drop inlet protection as provided in details.

C. RECEIVING WATERS

The site flows primarily to the south of the university and drains into the campus storm sewer system, ultimately flowing to outfall 9 on the campus, ultimately discharging into the Elizabeth River. The site is located in hydrologic unit code JL54. Based on a review of Appendix 1 – List of Impaired (Category 5) Waters in the 2012 Virginia 305(b)/303(d) Water Quality Integrated Report, the Elizabeth River is listed as an impaired water (Impaired Waters can be found in Appendix G of this document).

D. SENSITIVE AREAS

There are no critical areas associated with this site. Care should be taken during any activity not to adversely impact the adjoining developed parcels.

Slopes are relatively flat and should be permanently seeded when construction is complete. There are no on site mapped resource protection areas. No other sensitive areas are known to exist on the site.

E. POTENTIAL SOURCES OF POLLUTION

The main potential pollution sources are related to the storage, fueling, and maintenance of the vehicles and equipment used by the site staff and storage of fertilizers and other chemicals. It is anticipated that scheduled maintenance of vehicles and equipment will be performed off-site.
SECTION 2

EROSION & SEDIMENT CONTROL PLAN

A. EROSION AND SEDIMENT CONTROLS

1. **Appendix C** contains the Erosion and Sediment (E&S) Control Plan and Details for the project.

2. Unless otherwise indicated, all vegetative and structural erosion and sediment control measures shall be constructed and maintained in accordance with the Virginia Erosion and Sediment Control Law (§10.1-560 et. seq.) and regulations (4VAC50-30) and the Virginia Erosion and Sediment Control Handbook, latest adopted edition.

3. All E&S control devices shall be installed and maintained as shown on the approved E&S Control plans. Furthermore, any additional E&S controls required by the plan approval authority shall be similarly installed and maintained. A list of E&S control measures installed and maintained at the site and the contractor that performs such work shall be kept with this Plan (**Table 1, Appendix E**).

4. A record of the dates when major operational and maintenance activities occur, and when operational movement of unstabilized material from site occur, shall be maintained with this Plan (**Table 2, Appendix E**).

B. POLLUTION CONTROL

1. Solid waste shall be collected, stored and disposed of in accordance with Federal, State, and local laws and regulations. Trash and maintenance debris shall be collected in an approved container and transported to an approved waste disposal facility or landfill. No such material shall be burned or buried at the site. Project maintenance personnel shall be instructed on proper procedures for waste disposal.

2. Hazardous waste or materials shall be disposed of in accordance with Federal, State, and local laws and regulations. Project maintenance personnel shall be instructed on procedures for notifying the proper authorities if hazardous waste or materials are encountered at the maintenance site.

3. Sanitary waste collected from portable units located at the site shall be disposed of in accordance with Federal, State, and local laws and regulations.

STABILIZATION

C. MAINTAIN STABILIZATION PRACTICES

1. All seeded areas shall be routinely checked to ensure a good stand is maintained and shall be re-seeded and fertilized as necessary.
D. STRUCTURAL PRACTICES

The following E&S control measures may be included on the construction project site:

- Storm Drain Inlet Protection
- Oil Water Separator (StormFilter)

INSPECTION & MAINTENANCE

E. MAINTENANCE OF CONTROLS

As Per General Permit VAR10 PART I B 4, this site discharges stormwater from construction activities to surface waters identified as impaired in the 2012 § 305(b)/303(d) Water Quality Assessment Integrated Report or for which a TMDL wasteload allocation has been established and approved prior to the term of this general permit for (i) sediment or a sediment-related parameter (i.e., total suspended solids or turbidity) or (ii) nutrients (i.e., nitrogen or phosphorus) are covered under this general permit having implemented, and maintaining this SWPPP that minimizes the pollutants of concern and, when applicable, is consistent with the assumptions and requirements of the approved TMDL wasteload allocations. The operator shall implement the following items:

a. The impaired water(s), approved TMDL(s), and pollutant(s) of concern, when applicable, shall be identified in the SWPPP;

b. Permanent or temporary soil stabilization shall be applied to denuded areas within seven days after final grade is reached on any portion of the site;

c. Nutrients shall be applied in accordance with manufacturer's recommendations or an approved nutrient management plan and shall not be applied during rainfall events; and

d. The applicable SWPPP inspection requirements are as follows:

1. Inspections required by this general permit shall be conducted by the qualified personnel identified by the operator in the SWPPP. The operator is responsible for insuring that the qualified personnel conduct the inspection.

2. Inspections shall be conducted at a frequency of (i) at least once every four business days or (ii) at least once every five business days and no later than 48 hours following a measurable storm event. In the event that a measurable storm event occurs when there are more than 48 hours between business days, the inspection shall be conducted on the next business day.

3. Representative inspections used by utility line installation, pipeline construction, or other similar linear construction activities shall inspect all outfalls discharging to surface waters identified as impaired or for which a
TMDL wasteload allocation has been established and approved prior to the term of this general permit.

4. The erosion and sediment control devices shall be repaired or replaced as necessary to maintain their effectiveness. All repairs, replacements or cleanup procedures shall be conducted immediately after discovering a deficiency in the control device.

5. Inspections shall be conducted at least once every month for areas that have been finally or temporarily stabilized or where runoff is unlikely due to winter conditions.

6. The oil water separator (StormFilter) shall be inspected and maintained at least once per year and after major storm events. The inspection shall be performed as per inspection and maintenance procedures included with this plan (Appendix D).

7. If sediment escapes the maintenance site, off-site accumulations of sediment must be removed as soon as practicable to minimize off-site impacts. If approval by a plan-approving authority is necessary, control measures shall be implemented to minimize pollutants in stormwater discharges until such approvals can be obtained.

8. A report summarizing the scope of each inspection, inspection date, names and qualifications of inspection personnel, major observations, any incidents of noncompliance and actions taken to meet compliance shall be made and retained on-site as part of this Plan. These reports shall be retained for at least three (3) years from the date that permit coverage expires or is terminated. Example blank inspection reports are included with this Plan (Appendix F). Major observations should include:

   (i) The location(s) of discharges of sediment or other pollutants from the site;
   (ii) Location(s) of control measures that need to be maintained;
   (iii) Location(s) of control measures that failed to operate as designed or proved inadequate for a particular location;
   (iv) Location(s) where additional control measures are needed that did not exist at the time of inspection;
   (v) Corrective action required including any changes to the Plan that are necessary and implementation dates;
   (vi) An estimate of the amount of rainfall at the construction site (in inches) from the runoff producing storm event requiring the inspection, or if inspecting on a seven-day schedule, the amount of rainfall (in inches) since the previous inspection; and
   (vii) Weather information and a description of any discharges occurring at the time of inspection.
F. MATERIALS INVENTORY

The following materials and substances are expected to be utilized at the project site during routine maintenance procedures:

- Stone
- Fertilizers
- Wood
- Filter Cloth
- Asphalt
- Masonry
- Plastics
- Metal
- Wire

G. PLAN UPDATES

1. The Plan shall be amended whenever there is a change in design, construction, operation or maintenance that has a significant effect on the discharge of pollutants to state waters and that has not been previously addressed in the Plan.

2. The SWPPP must be amended if, during inspections or investigations by the operator's qualified personnel, or by local, state, or federal officials, it is determined that the existing control measures are ineffective in minimizing pollutants in discharges from the construction activity. Revisions to the SWPPP shall include additional or modified control measures designed and implemented to correct problems identified. If approval by the VESCP authority, VSMP authority, or department is necessary for the control measure, revisions to the SWPPP shall be completed no later than seven calendar days following approval. Implementation of these additional or modified control measures must be accomplished as described in Part II G of VAR10, 2014.

3. Revisions to the Plan must be dated, signed and included with this Plan and a list of such revisions shall also be maintained (Table 3, Appendix E). All modifications or updates to the SWPPP shall be noted and shall include the following items:
   a. A record of dates when:
      (1) Maintenance activities temporarily or permanently cease on a portion of the site; and
      (2) Stabilization measures are initiated;
   b. Documentation of replaced or modified controls where periodic inspections or other information have indicated that the controls have been used inappropriately or incorrectly and where modified as soon as possible;
   c. Areas that have reached final stabilization and where no further SWPPP or inspection requirements apply;
   d. All properties that are no longer under the legal control of the operator and the dates on which the operator no longer had legal control over each property;
   e. The date of any prohibited discharges, the discharge volume released, and what actions were taken to minimize the impact of the release;
   f. Measures taken to prevent the reoccurrence of any prohibited discharge; and
   g. Measures taken to address any evidence identified as a result of an inspection required
4. The Plan shall be revised to identify any new staff that will implement a control measure.

H. PUBLIC NOTIFICATION

Upon commencement of any land disturbance, or operational movement of un-stabilized materials, the operator shall post conspicuously a copy of the notice of coverage letter near the main entrance of the construction activity. For linear projects, the operator shall post the notice of coverage letter at a publicly accessible location near an active part of the construction project (e.g., where a pipeline crosses a public road). The operator shall maintain the posted information until termination of general permit coverage as specified in Appendix G.

I. SWPPP AVAILABILITY

1. Operators with day-to-day operational control over SWPPP implementation shall have a copy of the SWPPP available at a central location on-site for use by those identified as having responsibilities under the SWPPP whenever they are on the construction site. The operator shall maintain the posted information until termination of general permit coverage as specified in Part I F of VAR10, 2014.

2. The operator shall make the SWPPP and all amendments, modifications, and updates available upon request to the department, the VSMP authority, the EPA, the VESCP authority, local government officials, or the operator of a municipal separate storm sewer system receiving discharges from the construction activity. If an on-site location is unavailable to store the SWPPP when no personnel are present, notice of the SWPPP's location must be posted near the main entrance of the construction site.

3. The operator shall make the SWPPP available for public review in an electronic format or in hard copy. Information for public access to the SWPPP shall be posted and maintained in accordance with General Permit Part II C of VAR10, 2014. If not provided electronically, public access to the SWPPP may be arranged upon request at a time and at a publicly accessible location convenient to the operator or his designee but shall be no less than once per month and shall be during normal business hours. Information not required to be contained within the SWPPP by this general permit is not required to be released.

J. PLAN MAINTENANCE

A copy of this Plan, along with the approved E&S Control details, shall be maintained at the maintenance site or other location easily accessible during normal business hours from the date of commencement of construction activity to the date of final stabilization. In addition, a sign or other notice shall be posted conspicuously near the main entrance of the construction site. This notice shall contain the following information:

1. Copy of the permit coverage letter that includes the registration number for the construction activity, and
2. Location of a hard copy of the Plan with name and telephone number of a contact person for scheduling viewing times, or the internet address at which a copy of the Plan can be found.

K. CORRECTIVE ACTIONS

1. The operator shall implement the corrective action(s) identified as a result of an inspection as soon as practicable but no later than seven days after discovery or a longer period as approved by the VSMP authority. If approval of a corrective action by a regulatory authority (e.g., VSMP authority, VESCP authority, or the department) is necessary, additional control measures shall be implemented to minimize pollutants in stormwater discharges until such approvals can be obtained.

2. The operator may be required to remove hazardous spills located outside of the maintenance activity covered by this general permit as soon as practicable in order to minimize environmental impacts.
SECTION 3

POLLUTION PREVENTION PLAN

The following practices will be used to reduce the risk of spills or exposure of undesirable materials to stormwater runoff.

A. GOOD HOUSEKEEPING

The good housekeeping practices described below shall be followed during maintenance activities.

1. All materials stored on-site will be stored in a neat and orderly fashion. Materials that have potential for contaminating stormwater runoff shall be protected from coming in contact with precipitation and stormwater runoff.

2. Liquid materials will be stored within approved or manufacturer recommended watertight containers.

3. Any empty container that held any potentially harmful substances shall be disposed of immediately after its contents are depleted in accordance with Federal, State, and local laws and regulations.

4. Where possible, substances shall be kept in their original containers with the manufacturer’s labels.

5. All substances shall be used up before disposing of empty containers. Any surplus substances to be used elsewhere shall be transported off-site in their original container according to Federal, State, and local laws and regulations. All unused substances scheduled for disposal shall be done so in accordance with Federal, State, and local laws and regulations.

6. All staff working on the site shall follow manufacturer’s recommendations for use of all substances on the maintenance site.

7. Materials shall be stored and handled in such a way to prevent spills. All storage containers shall be tightly sealed and shall be clearly labeled.

8. All on-site equipment shall be checked for leaks on a regular basis. Any spills or leaks encountered at the site shall be cleaned up immediately. Vehicle or equipment maintenance should be conducted off-site.

9. Sediment transported onto a road surface shall be removed by sweeping, shoveling, or other non-invasive method and then hauled to an approved disposal site.
B. NON-STORMWATER DISCHARGES

It is anticipated that the following non-stormwater discharges will take place during maintenance activities. For a complete list of such allowable discharges, see Part I.E of the VPDES Permit.

1. Uncontaminated groundwater or stormwater pumped from excavation dewatering activities.

2. Water used for dust control.

3. Water for washing pavement where no petroleum or hazardous substance spills or leaks have occurred.

4. Vehicle washing with no soaps, solvents, or detergents.

Appropriate control measures shall be implemented for these discharges.

C. HAZARDOUS PRODUCTS

1. Hazardous substances shall be stored in their original container, unless the container is not re-sealable. After-market or non-original containers shall be approved by the governing agency or manufacturer to contain the specified hazardous substance.

2. Original labels shall be affixed to the storage container. All Material Safety Data Sheets (MSDS) shall be kept on file at the maintenance facility site. Only trained personnel shall be permitted to handle hazardous substances.

3. If a hazardous material is received in bulk quantity, then that material shall be stored in a manufacturer’s recommended container or container that is approved by the governing regulatory agency.

D. PETROLEUM PRODUCTS

1. If petroleum based products are received in bulk quantity, then that substance shall be stored in a manufacturer’s recommended container or container that is approved by the governing regulatory agency.

2. Refueling procedures shall be conducted in a manner so as to minimize incidental release of petroleum products. It is recommended that if repairs are required on a construction vehicle, then that activity should be conducted off-site. However, if off-site repairs are not feasible then the maintenance staff shall make provisions to prevent the discharge of any petroleum products. Repair or maintenance activities will not take place within or in the proximity of environmentally sensitive areas, sanitary sewer structures or stormwater receptors.

3. Petroleum-based spills will be subject to notification to the appropriate first-responders and governing environmental authorities.
E. MISCELLANEOUS PRODUCTS

1. Fertilizers shall be selected and applied in accordance with the Virginia Erosion and Sediment Control Handbook, latest adopted edition, and manufacturer’s recommendations. Partially open bags of fertilizer shall be stored in re-sealable plastic containers.

2. All paint containers shall be sealed and stored in accordance with the manufacturer’s recommendations. Paint containers shall be sheltered from precipitation and storm runoff. Used paint containers shall not be rinsed or cleaned on-site and disposal of excess paint and used paint containers shall be in accordance with Federal, State and local laws and regulations.

3. Concrete truck drum wash water or surplus concrete shall be discharged only at approved locations and in accordance with Federal, State, and local laws and regulations.

F. SPILL CONTROL PROCEDURES

1. Contain the spill as near the source as possible and secure the immediate surrounding area to minimize the area contaminated by the spilled product. Keep the spill area well ventilated and immediately clean up all spills once they are adequately contained.

2. Approved manufacturers’ recommendations for spill cleanup shall be clearly posted. All maintenance site personnel shall be aware of the posted information. In addition, personnel shall be trained in the use of any cleanup supplies stored on-site. Spill cleanup materials shall be stored in a designated location. All personnel shall know how to contact local first-responders.

3. All applicable spill response plans and MSDS shall be kept on file at the maintenance facility site. All maintenance personnel shall know the location of the MSDS files kept on-site.

4. All spills shall be cleaned up immediately upon discovery. If a spill cannot be cleaned by on-site personnel, then the appropriate authorities shall be notified immediately upon the discovery of a spill. The appropriate authorities, as required by regulatory standards, shall be notified in the event of a release that involves a hazardous or toxic substance.

5. The prime contractor shall be responsible for spill prevention, coordination and ensuring the general safety of all maintenance crews.

6. Necessary cleanup materials shall be stored on-site and may include the following: cleanup kits, containment booms, absorbent pads, absorbent material, bagged absorbent material, shovels, dust pans, brooms, and waste material containers.
7. In the event of a spill, personnel shall wear appropriate personal protective equipment (PPE) to prevent injury from contact with the material(s) during cleanup efforts.

G. TRAINING

Each person working at the site shall be trained in the basics of erosion control, good housekeeping, and pollution prevention. The training can be accomplished with short training sessions, displays or posters explaining the site’s inlet protection, and signs or reminders identifying such inlet protection. Such training should cover the following topics:

1. An understanding of the basic purpose of inlet protection;
2. Knowledge of authorized disposal areas and proper disposal practices;
3. Spill prevention and cleanup measures, including the prohibition of dumping any material into storm drains or waterways;
4. Knowledge of designated sensitive or protected areas;
5. Potential penalties associated with noncompliance; and
6. Staff to be contacted when problems arise.

In addition, comprehensive training should be provided to the persons that are directly responsible for implementing the Plan. Items to be discussed in this training should include:

1. Type and location of each BMP;
2. Installation requirements and water quality purpose of each BMP;
3. Maintenance procedures for each BMP;
4. Spill prevention and cleanup procedures; and
5. Maintenance and inspection recordkeeping procedures.

Each training session should document the dates, number of attendees, subjects covered and length of training, and then be maintained with this Plan. An example Training Log is provided for possible use (Appendix H).
SECTION 5

IMPAIRED WATERS

The site ultimately discharges into the Elizabeth River.

Appendix I contains a review of Appendix 1 – List of Impaired (Category 5) Waters in the 2012 Virginia 305(b)/303(d) Water Quality Integrated Report, the Elizabeth River is listed as an impaired water.

The operator must:

1. Apply permanent or temporary soil stabilization to denuded areas within seven (7) days after final grade is reached on any portion of the site,

2. Apply nutrients in accordance with manufacturer’s recommendations or an approved nutrient management plan and not during rainfall events,

3. Perform site inspections at a frequency of at least once every four (4) business days, or at least once every five (5) business days, and no later than 48 hours following a measureable storm event, and

4. Inspect all outfalls discharging to the impaired water when employing representative inspections for utility line installations, pipeline construction, or other similar linear construction activities.
SECTION 6

DELEGATION OF AUTHORITY/ PLAN CERTIFICATION

I, _________________________ (name), hereby designate the person or specifically described position below to be a duly authorized representative for the purpose of overseeing compliance with this Plan. The designee is authorized to sign any reports, stormwater pollution prevention plans and all other documents required by the VPDES Permit.

_________________________________________ (name of person or position)
_________________________________________ (company)
_________________________________________ (address)
_________________________________________ (city, state, zip)
_________________________________________ (phone)

By signing this authorization, I confirm that I meet the requirements to make such a designation as set forth in the VPDES Permit and that the designee above meets the definition of a “duly authorized representative” as set forth in the Permit.

“I certify under penalty of law that I have read and understand this document and that this document and all attachments were prepared in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.”

Signature: ____________________________________________________________

Date: ________________________________________________________________

Name: ______________________________________________________________

Title: ________________________________________________________________

Company: ____________________________________________________________
APPENDIX A

GENERAL VPDES PERMIT
9VAC25-880-1. Definitions.

The words and terms used in this chapter shall have the meanings defined in the Virginia Stormwater Management Act (Article 2.3 (§ 62.1-44.15:24 et seq.) of Chapter 3.1 of Title 62.1 of the Code of Virginia), this chapter, and 9VAC25-870 unless the context clearly indicates otherwise, except as otherwise specified in this section. Terms not defined in the Act, this chapter, or 9VAC25-870 shall have the meaning attributed to them in the federal Clean Water Act (33 USC § 1251 et seq.) (CWA). For the purposes of this chapter:

"Business day" means Monday through Friday excluding state holidays.

"Commencement of land disturbance" means the initial disturbance of soils associated with clearing, grading, or excavating activities or other construction activities (e.g., stockpiling of fill material).

"Construction site" means the land where any land-disturbing activity is physically located or conducted, including any adjacent land used or preserved in connection with the land-disturbing activity.

"Final stabilization" means that one of the following situations has occurred:

1. All soil disturbing activities at the site have been completed and a permanent vegetative cover has been established on denuded areas not otherwise permanently stabilized. Permanent vegetation shall not be considered established until a ground cover is achieved that is uniform (e.g., evenly distributed), mature enough to survive, and will inhibit erosion.

2. For individual lots in residential construction, final stabilization can occur by either:
   a. The homebuilder completing final stabilization as specified in subdivision 1 of this definition; or
   b. The homebuilder establishing temporary soil stabilization, including perimeter controls for an individual lot prior to occupation of the home by the homeowner, and informing the homeowner of the need for, and benefits of, final stabilization.

3. For construction projects on land used for agricultural purposes, final stabilization may be accomplished by returning the disturbed land to its preconstruction agricultural use. Areas disturbed that were not previously used for agricultural activities, such as buffer strips immediately adjacent to surface waters, and areas that are not being returned to their preconstruction agricultural use must meet the final stabilization criteria specified in subdivision 1 or 2 of this definition.

"Immediately" means as soon as practicable, but no later than the end of the next business day, following the day when the land-disturbing activities have temporarily or permanently ceased. In the context of this general permit, "immediately" is used to define the deadline for initiating stabilization measures.

"Impaired waters" means surface waters identified as impaired on the 2012 § 305(b)/303(d) Water Quality Assessment Integrated Report.

"Infeasible" means not technologically possible or not economically practicable and achievable in light of best industry practices.

"Initiation of stabilization activities" means:

1. Prepping the soil for vegetative or nonvegetative stabilization;
2. Applying mulch or other nonvegetative product to the exposed area;
3. Seeding or planting the exposed area;
4. Starting any of the above activities on a portion of the area to be stabilized, but not on the entire area; or
5. Finalizing arrangements to have the stabilization product fully installed in compliance with the applicable deadline for completing stabilization.

This list is not exhaustive.

"Measurable storm event" means a rainfall event producing 0.25 inches of rain or greater over 24 hours.

"Stabilized" means land that has been treated to withstand normal exposure to natural forces without incurring erosion damage.


This general permit regulation governs stormwater discharges from regulated construction activities. For the purposes of this chapter, these discharges are defined as stormwater discharges associated with large construction activity, and stormwater discharges associated with small construction activity. Stormwater discharges associated with other types of industrial activity shall not have coverage under this general permit. This general permit covers only discharges through a point source to surface waters or through a municipal or nonmunicipal separate storm sewer system to surface waters. Stormwater discharges associated with industrial activity that originate from construction activities that have been completed and the site has undergone final stabilization are not authorized by this general permit.

9VAC25-880-15. Applicability of incorporated references based on the dates that they became effective.

Except as noted, when a regulation of the United States set forth in the Code of Federal Regulations is referenced and incorporated herein, that regulation shall be as it exists and has been published in the July 1, 2013, update.

9VAC25-880-20. Effective date of general permit.

This general permit is effective on July 1, 2014. The general permit will expire on June 30, 2019. This general permit is effective for any covered operator upon compliance with all provisions of 9VAC25-880-30.


A. Any operator governed by this general permit is authorized to discharge to surface waters of the Commonwealth of Virginia provided that:
   1. The operator submits a complete and accurate registration statement, if required to do so, in accordance with 9VAC25-880-50 and receives acceptance of the registration by the board;
   2. The operator submits any permit fees, if required to do so, in accordance with 9VAC25-870-700 et seq.;
   3. The operator complies with the applicable requirements of 9VAC25-880-70;
   4. The operator obtains approval of:
a. An erosion and sediment control plan from the appropriate VESCP authority as authorized under the Erosion and Sediment Control Regulations (9VAC25-840), unless the operator receives from the VESCP an "agreement in lieu of a plan" as defined in 9VAC25-840-10 or prepares the erosion and sediment control plan in accordance with annual standards and specifications approved by the department. The operator of any land-disturbing activity that is not required to obtain erosion and sediment control plan approval from a VESCP authority or is not required to adopt department-approved annual standards and specifications shall submit the erosion and sediment control plan to the department for review and approval; and

b. A stormwater management plan from the appropriate VSMP authority as authorized under the Virginia Stormwater Management Program (VSMP) Regulation (9VAC25-870), unless the operator prepares the stormwater management plan in accordance with annual standards and specifications approved by the department. The operator of any land-disturbing activity that is not required to obtain stormwater management plan approval from a VSMP authority or is not required to adopt department-approved annual standards and specifications shall submit the stormwater management plan to the department for review and approval; and

5. The board has not notified the operator that the discharge is not eligible for coverage in accordance with subsection B of this section.

B. The board will notify an operator that the discharge is not eligible for coverage under this general permit in the event of any of the following:

1. The operator is required to obtain an individual permit in accordance with 9VAC25-870-410 B;
2. The operator is proposing discharges to surface waters specifically named in other board regulations that prohibit such discharges;
3. The discharge causes, may reasonably be expected to cause, or contributes to a violation of water quality standards (9VAC25-260);
4. The discharge violates or would violate the antidegradation policy in the Water Quality Standards (9VAC25-260-30); or
5. The discharge is not consistent with the assumptions and requirements of an applicable TMDL approved prior to the term of this general permit.

C. This general permit also authorizes stormwater discharges from support activities (e.g., concrete or asphalt batch plants, equipment staging yards, material storage areas, excavated material disposal areas, borrow areas) located on-site or off-site provided that:

1. The support activity is directly related to a construction activity that is required to have general permit coverage for discharges of stormwater from construction activities;
2. The support activity is not a commercial operation, nor does it serve multiple unrelated construction activities by different operators;
3. The support activity does not operate beyond the completion of the last construction activity it supports;
4. The support activity is identified in the registration statement at the time of general permit coverage;
5. Appropriate control measures are identified in a stormwater pollution prevention plan and implemented to address the discharges from the support activity areas; and
6. All applicable, state, federal, and local approvals are obtained for the support activity.

D. Support activities located off-site are not required to be covered under this general permit. Discharges of stormwater from off-site support activities may be authorized under
another state or VPDES permit. Where stormwater discharges from off-site support activities are not authorized under this general permit, the land area of the off-site support activity need not be included in determining the total land disturbance acreage of the construction activity seeking general permit coverage.

E. Discharges authorized by this general permit may be commingled with other sources of stormwater that are not required to be covered under a state permit, so long as the commingled discharge is in compliance with this general permit. Discharges authorized by a separate state or VPDES permit may be commingled with discharges authorized by this general permit so long as all such discharges comply with all applicable state and VPDES permit requirements.

F. Authorized nonstormwater discharges. The following nonstormwater discharges from construction activities are authorized by this general permit:

1. Discharges from firefighting activities;
2. Fire hydrant flushings;
3. Water 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;
4. Water used to control dust that has been filtered, settled, or similarly treated prior to discharge;
5. Potable water source, including uncontaminated waterline flushings;
6. 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;
7. Pavement wash water 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;
8. Uncontaminated air conditioning or compressor condensate;
9. Uncontaminated groundwater or spring water;
10. Foundation or footing drains where flows are not contaminated with process materials such as solvents;
11. Uncontaminated, excavation dewatering, including dewatering of trenches and excavations that have been filtered, settled, or similarly treated prior to discharge; and
12. Landscape irrigations.

G. Approval for coverage under this general permit does not relieve any operator of the responsibility to comply with any other applicable federal, state or local statute, ordinance or regulation.

H. Continuation of general permit coverage.

1. Any operator that was authorized to discharge under the general permit issued in 2009 and that submits a complete and accurate registration statement on or before June 30, 2014, is authorized to continue to discharge under the terms of the 2009 general permit until such time as the board either:
   a. Issues coverage to the operator under this general permit or
   b. Notifies the operator that the discharge is not eligible for coverage under this general permit.

2. When the operator is not in compliance with the conditions of the expiring or expired general permit the board may choose to do any or all of the following:
a. Initiate enforcement action based upon the 2009 general permit;
b. Issue a notice of intent to deny the new general permit. If the general permit is denied, the owner or operator would then be required to cease the activities authorized by the continued general permit or be subject to enforcement action for operating without a state permit;
c. Issue a new state permit with appropriate conditions; or
d. Take other actions authorized by the VSMP Regulation (9VAC25-870).

9VAC25-880-40. Delegation of authorities to state and local programs.

A board-approved VSMP authority is authorized to administer requirements of this general permit, including but not limited to: (i) registration statement acceptance; (ii) fee collection; (iii) stormwater management plan review and approval; and (iv) permit compliance and enforcement dependent upon conditions established as part of the board approval.


A. Deadlines for submitting registration statement. Any operator seeking coverage under this general permit, and that is required to submit a registration statement, shall submit a complete and accurate general VPDES permit registration statement in accordance with this section, which shall serve as a notice of intent for coverage under the general VPDES permit for discharges of stormwater from construction activities.

1. New construction activities.
   a. Any operator proposing a new stormwater discharge from construction activities shall submit a complete and accurate registration statement to the VSMP authority prior to the commencement of land disturbance.
   b. Any operator proposing a new stormwater discharge from construction activities in response to a public emergency where the related work requires immediate authorization to avoid imminent endangerment to human health or the environment is authorized to discharge under this general permit, provided that:
      (1) The operator submits a complete and accurate registration statement to the VSMP authority no later than 30 days after commencing land disturbance; and
      (2) Documentation to substantiate the occurrence of the public emergency is provided with the registration statement.
   c. Any operator proposing a new stormwater discharge associated with the construction of a single-family residence separately built, disturbing less than one acre and part of a larger common plan of development or sale, is authorized to discharge under this general permit and is not required to submit a registration statement or the department portion of the permit fee, provided that the stormwater management plan for the larger common plan of development or sale provides permanent control measures (i.e., stormwater management facilities) encompassing the single family residence.

2. Existing construction activities.
   a. Any operator that was authorized to discharge under the general permit issued in 2009 and that intends to continue coverage under this general permit shall:
      (1) Submit a complete and accurate registration statement to the VSMP authority on or before June 1, 2014; and
(2) Update its stormwater pollution prevention plan to comply with the requirements of this general permit no later than 60 days after the date of coverage under this general permit.

b. Any operator with an existing stormwater discharge associated with the construction of a single-family residence separately built, disturbing less than one acre and part of a larger common plan of development or sale, and that intends to continue coverage under this general permit, is authorized to discharge under this general permit and is not required to submit a registration statement or the department portion of the permit fee, provided that:

(1) The stormwater management plan for the larger common plan of development or sale provides permanent control measures (i.e., stormwater management facilities) encompassing the single-family residence; and

(2) The operator updates its stormwater pollution prevention plan to comply with the requirements of this general permit no later than 60 days after the date of coverage under this general permit.

3. For stormwater discharges from construction activities where the operator changes, the new operator must submit a complete and accurate registration statement or transfer agreement form to the VSMP authority prior to assuming operational control over site specifications or commencing work on-site.

4. Late notifications. Operators are not prohibited from submitting registration statements after commencing land disturbance. When a late registration statement is submitted, authorization for discharges shall not occur until coverage under the general permit is issued. The VSMP authority, department, board, and the EPA reserve the right to take enforcement action for any unpermitted discharges that occur between the commencement of land disturbance and discharge authorization.

B. Registration statement. The operator shall submit a registration statement to the VSMP authority that shall contain the following information:

1. Name, contact, mailing address, telephone number, and email address if available of the construction activity operator. No more than one operator may receive coverage under each registration statement.

NOTE: General permit coverage will be issued to this operator, and the certification in subdivision 11 of this subsection must be signed by the appropriate person associated with this operator;

2. Name and location if available of the construction activity and all off-site support activities to be covered under this general permit, including city or county, and latitude and longitude in decimal degrees;

3. Status of the construction activity: federal, state, public, or private;

4. Nature of the construction activity (e.g., commercial, industrial, residential, agricultural, oil and gas, etc.);

5. Name of the receiving water(s) and HUC;

6. If the discharge is through a municipal separate storm sewer system (MS4), the name of the municipal separate storm sewer system operator;

7. Estimated project start date and completion date;

8. Total land area of development and estimated area to be disturbed by the construction activity (to the nearest one-hundredth of an acre);

9. Whether the area to be disturbed by the construction activity is part of a larger common plan of development or sale;
10. A stormwater pollution prevention plan (SWPPP) must be prepared in accordance with the requirements of the General VPDES Permit for Stormwater Discharges from Construction Activities prior to submitting the registration statement. By signing the registration statement the operator certifies that the SWPPP has been prepared; and

11. The following certification: "I certify under penalty of law that I have read and understand this registration statement and that this document and all attachments were prepared in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations."

C. The registration statement shall be signed in accordance with 9VAC25-880-70, Part III K.

9VAC25-880-60. Termination of general permit coverage.

A. Requirements. The operator of the construction activity shall submit a notice of termination to the VSMP authority after one or more of the following conditions have been met:

1. Necessary permanent control measures included in the SWPPP for the site are in place and functioning effectively and final stabilization has been achieved on all portions of the site for which the operator is responsible. When applicable, long-term responsibility and maintenance requirements for permanent control measures shall be recorded in the local land records prior to the submission of a notice of termination;

2. Another operator has assumed control over all areas of the site that have not been finally stabilized and obtained coverage for the ongoing discharge;

3. Coverage under an alternative VPDES or state permit has been obtained; or

4. For residential construction only, temporary soil stabilization has been completed and the residence has been transferred to the homeowner.

The notice of termination should be submitted no later than 30 days after one of the above conditions being met. Authorization to discharge terminates at midnight on the date that the notice of termination is submitted for the conditions set forth in subdivisions 2 through 4 of this subsection unless otherwise notified by the VSMP authority or the department. Termination of authorizations to discharge for the conditions set forth in subdivision 1 of this subsection shall be effective upon notification from the department that the provisions of subdivision 1 of this subsection have been met or 60 days after submittal of the notice of terminations, whichever occurs first.

B. Notice of termination. The notice of termination shall contain the following information:

1. Name, contact, mailing address, telephone number, and email address if available of the construction activity operator.

2. Name and location if available of the construction activity covered under this general permit, including city or county, and latitude and longitude in decimal degrees.

3. The general permit registration number.

4. The basis for submission of the notice of termination, pursuant to subsection A of this section.

5. Where applicable, a list of the on-site and off-site permanent control measures (both structural and nonstructural) that were installed to comply with the stormwater
management technical criteria. For each permanent control measure that was installed, the following information shall be included:

a. The type of permanent control measure installed and the date that it became functional as a permanent control measure;

b. The location if available of the permanent control measure, including city or county, and latitude and longitude in decimal degrees;

c. The receiving water of the permanent control measures; and

d. The number of total and impervious acres treated by the permanent control measure (to the nearest one-tenth of an acre).

6. Where applicable, the following information related to participation in a regional stormwater management plan. For each regional stormwater management facility, the following information shall be included:

a. The type of regional facility to which the site contributes;

b. The location if available of the regional facility, including city or county, and latitude and longitude in decimal degrees; and

c. The number of total and impervious site acres treated by the regional facility (to the nearest one-tenth of an acre).

7. Where applicable, the following information related to perpetual nutrient credits that were acquired in accordance with § 62.1-44.15:35 of the Code of Virginia:

a. The name of the nonpoint nutrient credit generating entity from which perpetual nutrient credits were acquired; and

b. The number of perpetual nutrient credits acquired (lbs. per acre per year).

8. The following certification: "I certify under penalty of law that I have read and understand this notice of termination and that this document and all attachments were prepared in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations."

C. The notice of termination shall be signed in accordance with 9VAC25-880-70 Part III K.

D. Termination by the board. The board may terminate coverage under this general permit during its term and require application for an individual permit or deny a general permit renewal application on its own initiative in accordance with the Act, this chapter, and the VSMP Regulation, 9VAC25-870.

9VAC25-880-70. General permit.

Any operator whose registration statement is accepted by the board will receive the following general permit and shall comply with the requirements contained therein and be subject to all requirements of 9VAC25-870.
GENERAL VPDES PERMIT FOR DISCHARGES OF STORMWATER FROM CONSTRUCTION ACTIVITIES

AUTHORIZATION TO DISCHARGE UNDER THE VIRGINIA STORMWATER MANAGEMENT PROGRAM AND THE VIRGINIA STORMWATER MANAGEMENT ACT

In compliance with the provisions of the Clean Water Act, as amended, and pursuant to the Virginia Stormwater Management Act and regulations adopted pursuant thereto, operators of construction activities are authorized to discharge to surface waters within the boundaries of the Commonwealth of Virginia, except those specifically named in State Water Control Board regulations that prohibit such discharges.

The authorized discharge shall be in accordance with this cover page, Part I - Discharge Authorization and Special Conditions, Part II - Stormwater Pollution Prevention Plan, and Part III - Conditions Applicable to All VPDES Permits as set forth herein.

PART I
DISCHARGE AUTHORIZATION AND SPECIAL CONDITIONS

A. Coverage under this general permit.

1. During the period beginning with the date of coverage under this general permit and lasting until the general permit’s expiration date, the operator is authorized to discharge stormwater from construction activities.

2. This general permit also authorizes stormwater discharges from support activities (e.g., concrete or asphalt batch plants, equipment staging yards, material storage areas, excavated material disposal areas, borrow areas) located on-site or off-site provided that:

   a. The support activity is directly related to the construction activity that is required to have general permit coverage for discharges of stormwater from construction activities;
   b. The support activity is not a commercial operation, nor does it serve multiple unrelated construction activities by different operators;
   c. The support activity does not operate beyond the completion of the last construction activity it supports;
   d. The support activity is identified in the registration statement at the time of general permit coverage;
   e. Appropriate control measures are identified in a stormwater pollution prevention plan and implemented to address the discharges from the support activity areas; and
   f. All applicable state, federal, and local approvals are obtained for the support activity.

B. Limitations on coverage.

1. Post-construction discharges. This general permit does not authorize stormwater discharges that originate from the site after construction activities have been completed and the site, including any support activity sites covered under the general permit
registration, has undergone final stabilization. Post-construction industrial stormwater discharges may need to be covered by a separate VPDES permit.

2. Discharges mixed with nonstormwater. This general permit does not authorize discharges that are mixed with sources of nonstormwater, other than those discharges that are identified in Part I E (Authorized nonstormwater discharges) and are in compliance with this general permit.

3. Discharges covered by another state permit. This general permit does not authorize discharges of stormwater from construction activities that have been covered under an individual permit or required to obtain coverage under an alternative general permit.

4. Impaired waters and TMDL limitation. Discharges of stormwater from construction activities to surface waters identified as impaired in the 2012 § 305(b)/303(d) Water Quality Assessment Integrated Report or for which a TMDL wasteload allocation has been established and approved prior to the term of this general permit for (i) sediment or a sediment-related parameter (i.e., total suspended solids or turbidity) or (ii) nutrients (i.e., nitrogen or phosphorus) are not eligible for coverage under this general permit unless the operator develops, implements, and maintains a SWPPP that minimizes the pollutants of concern and, when applicable, is consistent with the assumptions and requirements of the approved TMDL wasteload allocations. In addition, the operator shall implement the following items:

   a. The impaired water(s), approved TMDL(s), and pollutant(s) of concern, when applicable, shall be identified in the SWPPP;
   b. Permanent or temporary soil stabilization shall be applied to denuded areas within seven days after final grade is reached on any portion of the site;
   c. Nutrients shall be applied in accordance with manufacturer's recommendations or an approved nutrient management plan and shall not be applied during rainfall events; and
   d. The applicable SWPPP inspection requirements specified in Part II F 2 shall be amended as follows:

      (1) Inspections shall be conducted at a frequency of (i) at least once every four business days or (ii) at least once every five business days and no later than 48 hours following a measurable storm event. In the event that a measurable storm event occurs when there are more than 48 hours between business days, the inspection shall be conducted on the next business day; and
      (2) Representative inspections used by utility line installation, pipeline construction, or other similar linear construction activities shall inspect all outfalls discharging to surface waters identified as impaired or for which a TMDL wasteload allocation has been established and approved prior to the term of this general permit.

5. Exceptional waters limitation. Discharges of stormwater from construction activities not previously covered under the general permit issued in 2009 to exceptional waters identified in 9VAC25-260-30 A 3 c are not eligible for coverage under this general permit unless the operator implements the following:

   a. The exceptional water(s) shall be identified in the SWPPP;
   b. Permanent or temporary soil stabilization shall be applied to denuded areas within seven days after final grade is reached on any portion of the site;
   c. Nutrients shall be applied in accordance with manufacturer's recommendations or an approved nutrient management plan and shall not be applied during rainfall events; and
d. The applicable SWPPP inspection requirements specified in Part II F 2 shall be amended as follows:

(1) Inspections shall be conducted at a frequency of (i) at least once every four business days or (ii) at least once every five business days and no later than 48 hours following a measurable storm event. In the event that a measurable storm event occurs when there are more than 48 hours between business days, the inspection shall be conducted on the next business day; and

(2) Representative inspections used by utility line installation, pipeline construction, or other similar linear construction activities shall inspect all outfalls discharging to exceptional waters.

6. There shall be no discharge of floating solids or visible foam in other than trace amounts.

C. Commingled discharges. Discharges authorized by this general permit may be commingled with other sources of stormwater that are not required to be covered under a state permit, so long as the commingled discharge is in compliance with this general permit. Discharges authorized by a separate state or VPDES permit may be commingled with discharges authorized by this general permit so long as all such discharges comply with all applicable state and VPDES permit requirements.

D. Prohibition of nonstormwater discharges. Except as provided in Parts I A 2, I C and I E, all discharges covered by this general permit shall be composed entirely of stormwater associated with construction activities. All other discharges including the following are prohibited:

1. Wastewater from washout of concrete;
2. Wastewater from the washout and cleanout of stucco, paint, form release oils, curing compounds, and other construction materials;
3. Fuels, oils, or other pollutants used in vehicle and equipment operation and maintenance;
4. Oils, toxic substances, or hazardous substances from spills or other releases; and
5. Soaps, solvents, or detergents used in equipment and vehicle washing.

E. Authorized nonstormwater discharges. The following nonstormwater discharges from construction activities are authorized by this general permit when discharged in compliance with this general permit:

1. Discharges from firefighting activities;
2. Fire hydrant flushings;
3. 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;
4. Water used to control dust that has been filtered, settled, or similarly treated prior to discharge;
5. Potable water sources, including uncontaminated waterline flushings;
6. 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;
7. 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;
8. Uncontaminated air conditioning or compressor condensate;
9. Uncontaminated ground water or spring water;
10. Foundation or footing drains where flows are not contaminated with process materials such as solvents;
11. Uncontaminated excavation dewatering, including dewatering of trenches and excavations that have been filtered, settled, or similarly treated prior to discharge; and
12. Landscape irrigation.

F. Termination of general permit coverage.

1. The operator of the construction activity shall submit a notice of termination in accordance with 9VAC25-880-60 to the VSMP authority after one or more of the following conditions have been met:
   a. Necessary permanent control measures included in the SWPPP for the site are in place and functioning effectively and final stabilization has been achieved on all portions of the site for which the operator is responsible. When applicable, long term responsibility and maintenance requirements shall be recorded in the local land records prior to the submission of a notice of termination;
   b. Another operator has assumed control over all areas of the site that have not been finally stabilized and obtained coverage for the ongoing discharge;
   c. Coverage under an alternative VPDES or state permit has been obtained; or
   d. For residential construction only, temporary soil stabilization has been completed and the residence has been transferred to the homeowner.

2. The notice of termination should be submitted no later than 30 days after one of the above conditions in subdivision 1 of this subsection are met. Authorization to discharge terminates at midnight on the date that the notice of termination is submitted for the conditions set forth in subdivisions 1 b through 1 d of this subsection. Termination of authorizations to discharge for the conditions set forth in subdivision 1 a of this subsection shall be effective upon notification from the department that the provisions of subdivision 1 a of this subsection have been met or 60 days after submittal of the notice of termination, whichever occurs first.

3. The notice of termination shall be signed in accordance with Part III K of this general permit.

G. Water quality protection.

1. The operator must select, install, implement and maintain control measures as identified in the SWPPP at the construction site that minimize pollutants in the discharge as necessary to ensure that the operator’s discharge does not cause or contribute to an excursion above any applicable water quality standard.

2. If it is determined by the department that the operator’s discharges are causing, have reasonable potential to cause, or are contributing to an excursion above any applicable water quality standard, the department, in consultation with the VSMP authority, may take appropriate enforcement action and require the operator to:
   a. Modify or implement additional control measures in accordance with Part II B to adequately address the identified water quality concerns;
b. Submit valid and verifiable data and information that are representative of ambient conditions and indicate that the receiving water is attaining water quality standards; or
c. Submit an individual permit application in accordance with 9VAC25-870-410 B 3.

All written responses required under this chapter must include a signed certification consistent with Part III K.

PART II
STORMWATER POLLUTION PREVENTION PLAN

A stormwater pollution prevention plan (SWPPP) shall be developed prior to the submission of a registration statement and implemented for the construction activity, including any support activity, covered by this general permit. SWPPPs shall be prepared in accordance with good engineering practices. Construction activities that are part of a larger common plan of development or sale and disturb less than one acre may utilize a SWPPP template provided by the department and need not provide a separate stormwater management plan if one has been prepared and implemented for the larger common plan of development or sale.

The SWPPP requirements of this general permit may be fulfilled by incorporating by reference other plans such as a spill prevention control and countermeasure (SPCC) plan developed for the site under § 311 of the federal Clean Water Act or best management practices (BMP) programs otherwise required for the facility provided that the incorporated plan meets or exceeds the SWPPP requirements of Part II A. All plans incorporated by reference into the SWPPP become enforceable under this general permit. If a plan incorporated by reference does not contain all of the required elements of the SWPPP, the operator must develop the missing elements and include them in the SWPPP.

Any operator that was authorized to discharge under the general permit issued in 2009, and that intends to continue coverage under this general permit, shall update its stormwater pollution prevention plan to comply with the requirements of this general permit no later than 60 days after the date of coverage under this general permit.

A. Stormwater pollution prevention plan contents. The SWPPP shall include the following items:

1. General information.
   a. A signed copy of the registration statement for coverage under the general VPDES permit for discharges of stormwater from construction activities;
   b. Upon receipt, a copy of the notice of coverage under the general VPDES permit for discharges of stormwater from construction activities (i.e., notice of coverage letter);
   c. Upon receipt, a copy of the general VPDES permit for discharges of stormwater from construction activities;
   d. A narrative description of the nature of the construction activity, including the function of the project (e.g., low density residential, shopping mall, highway, etc.);
   e. A legible site plan identifying:
      (1) Directions of stormwater flow and approximate slopes anticipated after major grading activities;
      (2) Limits of land disturbance including steep slopes and natural buffers around surface waters that will not be disturbed;
(3) Locations of major structural and nonstructural control measures, including sediment basins and traps, perimeter dikes, sediment barriers, and other measures intended to filter, settle, or similarly treat sediment, that will be installed between disturbed areas and the undisturbed vegetated areas in order to increase sediment removal and maximize stormwater infiltration;

(4) Locations of surface waters;

(5) Locations where concentrated stormwater is discharged;

(6) Locations of support activities, when applicable and when required by the VSMP authority, including but not limited to (i) areas where equipment and vehicle washing, wheel wash water, and other wash water is to occur; (ii) storage areas for chemicals such as acids, fuels, fertilizers, and other lawn care chemicals; (iii) concrete wash out areas; (iv) vehicle fueling and maintenance areas; (v) sanitary waste facilities, including those temporarily placed on the construction site; and (vi) construction waste storage; and

(7) When applicable, the location of the on-site rain gauge or the methodology established in consultation with the VSMP authority used to identify measurable storm events for inspection purposes.

2. Erosion and sediment control plan.

a. An erosion and sediment control plan approved by the VESCP authority as authorized under the Erosion and Sediment Control Regulations (9VAC25-840), an "agreement in lieu of a plan" as defined in 9VAC25-840-10 from the VESCP authority, or an erosion and sediment control plan prepared in accordance with annual standards and specifications approved by the department. Any operator proposing a new stormwater discharge from construction activities that is not required to obtain erosion and sediment control plan approval from a VESCP authority or does not adopt department-approved annual standards and specifications shall submit the erosion and sediment control plan to the department for review and approval.

b. All erosion and sediment control plans shall include a statement describing the maintenance responsibilities required for the erosion and sediment controls used.

c. A properly implemented approved erosion and sediment control plan, "agreement in lieu of a plan," or erosion and sediment control plan prepared in accordance with department-approved annual standards and specifications, that adequately:

(1) Controls the volume and velocity of stormwater runoff within the site to minimize soil erosion;

(2) Controls stormwater discharges, including peak flow rates and total stormwater volume, to minimize erosion at outlets and to minimize downstream channel and stream bank erosion;

(3) Minimizes the amount of soil exposed during the construction activity;

(4) Minimizes the disturbance of steep slopes;

(5) Minimizes sediment discharges from the site in a manner that addresses (i) the amount, frequency, intensity, and duration of precipitation; (ii) the nature of resulting stormwater runoff; and (iii) soil characteristics, including the range of soil particle sizes present on the site;

(6) Provides and maintains natural buffers around surface waters, directs stormwater to vegetated areas to increase sediment removal, and maximizes stormwater infiltration, unless infeasible;
(7) Minimizes soil compaction and, unless infeasible, preserves topsoil;
(8) Ensures that stabilization of disturbed areas will be initiated immediately whenever any clearing, grading, excavating, or other land-disturbing activities have permanently ceased on any portion of the site, or temporarily ceased on any portion of the site and will not resume for a period exceeding 14 days; and
(9) Utilizes outlet structures that withdraw stormwater from the surface (i.e., above the permanent pool or wet storage water surface elevation), unless infeasible, when discharging from sediment basins or sediment traps.


a. New construction activities. A stormwater management plan approved by the VSMP authority as authorized under the Virginia Stormwater Management Program (VSMP) Regulation (9VAC25-870), or a stormwater management plan prepared in accordance with annual standards and specifications approved by the department. Any operator proposing a new stormwater discharge from construction activities that is not required to obtain stormwater management plan approval from a VSMP authority or does not adopt department-approved annual standards and specifications shall submit the stormwater management plan to the department for review and approval.

b. Existing construction activities. Any operator that was authorized to discharge under the general permit issued in 2009, and that intends to continue coverage under this general permit, shall ensure compliance with the requirements of 9VAC25-870-93 through 9VAC25-870-99 of the VSMP Regulation, including but not limited to the water quality and quantity requirements. The SWPPP shall include a description of, and all necessary calculations supporting, all post-construction stormwater management measures that will be installed prior to the completion of the construction process to control pollutants in stormwater discharges after construction operations have been completed. Structural measures should be placed on upland soils to the degree possible. Such measures must be designed and installed in accordance with applicable VESCP authority, VSMP authority, state, and federal requirements, and any necessary permits must be obtained.

4. Pollution prevention plan. A pollution prevention plan that addresses potential pollutant-generating activities that may reasonably be expected to affect the quality of stormwater discharges from the construction activity, including any support activity. The pollution prevention plan 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 site plan, reference the site plan;

c. Identify all nonstormwater discharges, as authorized in Part I E of this general permit, that are or will be commingled with stormwater discharges from the construction activity, including any applicable support activity;

d. Identify the person responsible for implementing the pollution prevention practice or practices for each pollutant-generating activity (if other than the person listed as the qualified personnel);

e. Describe the pollution prevention practices and procedures that will be implemented to:

(1) Prevent and respond to leaks, spills, and other releases including (i) procedures for expeditiously stopping, containing, and cleaning up spills, leaks, and other
releases; and (ii) procedures for reporting leaks, spills, and other releases in accordance with Part III G;

(2) Prevent the discharge of spilled and leaked fuels and chemicals from vehicle fueling and maintenance activities (e.g., providing secondary containment such as spill berms, decks, spill containment pallets, providing cover where appropriate, and having spill kits readily available);

(3) Prevent the discharge of soaps, solvents, detergents, and wash water from construction materials, including the clean-up of stucco, paint, form release oils, and curing compounds (e.g., providing (i) cover (e.g., plastic sheeting or temporary roofs) to prevent contact with stormwater; (ii) collection and proper disposal in a manner to prevent contact with stormwater; and (iii) a similarly effective means designed to prevent discharge of these pollutants);

(4) Minimize the discharge of pollutants from vehicle and equipment washing, wheel wash water, and other types of washing (e.g., locating activities away from surface waters and stormwater inlets or conveyance and directing wash waters to sediment basins or traps, using filtration devices such as filter bags or sand filters, or using similarly effective controls);

(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 (i) building products such as asphalt sealants, copper flashing, roofing materials, adhesives, and concrete admixtures; (ii) pesticides, herbicides, insecticides, fertilizers, and landscape materials; and (iii) 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; and

(8) Address any other discharge from the potential pollutant-generating activities not addressed above; and

f. Describe procedures for providing pollution prevention awareness of all applicable wastes, including any wash water, disposal practices, and applicable disposal locations of such wastes, to personnel in order to comply with the conditions of this general permit. The operator shall implement the procedures described in the SWPPP.

5. SWPPP requirements for discharges to impaired waters, surface waters with an applicable TMDL wasteload allocation established and approved prior to the term of this general permit, and exceptional waters. The SWPPP shall:

a. Identify the impaired water(s), approved TMDL(s), pollutant(s) of concern, and exceptional waters identified in 9VAC25-260-30 A 3 c, when applicable;

b. Provide clear direction that:

(1) Permanent or temporary soil stabilization shall be applied to denuded areas within seven days after final grade is reached on any portion of the site;
(2) Nutrients shall be applied in accordance with manufacturer's recommendations or an approved nutrient management plan and shall not be applied during rainfall events; and 

(3) A modified inspection schedule shall be implemented in accordance with Part I B 4 or Part I B 5.

6. Qualified personnel. The name, phone number, and qualifications of the qualified personnel conducting inspections required by this general permit.

7. Delegation of authority. The individuals or positions with delegated authority, in accordance with Part III K, to sign inspection reports or modify the SWPPP.

8. SWPPP signature. The SWPPP shall be signed and dated in accordance with Part III K.

B. SWPPP amendments, modification, and updates.

1. The operator shall amend the SWPPP whenever there is a change in the design, construction, operation, or maintenance that has a significant effect on the discharge of pollutants to surface waters and that has not been previously addressed in the SWPPP.

2. The SWPPP must be amended if, during inspections or investigations by the operator's qualified personnel, or by local, state, or federal officials, it is determined that the existing control measures are ineffective in minimizing pollutants in discharges from the construction activity. Revisions to the SWPPP shall include additional or modified control measures designed and implemented to correct problems identified. If approval by the VESCP authority, VSMP authority, or department is necessary for the control measure, revisions to the SWPPP shall be completed no later than seven calendar days following approval. Implementation of these additional or modified control measures must be accomplished as described in Part II G.

3. The SWPPP must clearly identify the contractor(s) that will implement and maintain each control measure identified in the SWPPP. The SWPPP shall be amended to identify any new contractor that will implement and maintain a control measure.

4. The operator shall update the SWPPP no later than seven days following any modification to its implementation. All modifications or updates to the SWPPP shall be noted and shall include the following items:

   a. A record of dates when:
      (1) Major grading activities occur;
      (2) Construction activities temporarily or permanently cease on a portion of the site; and
      (3) Stabilization measures are initiated;
   b. Documentation of replaced or modified controls where periodic inspections or other information have indicated that the controls have been used inappropriately or incorrectly and where modified as soon as possible;
   c. Areas that have reached final stabilization and where no further SWPPP or inspection requirements apply;
   d. All properties that are no longer under the legal control of the operator and the dates on which the operator no longer had legal control over each property;
   e. The date of any prohibited discharges, the discharge volume released, and what actions were taken to minimize the impact of the release;
   f. Measures taken to prevent the reoccurrence of any prohibited discharge; and
g. Measures taken to address any evidence identified as a result of an inspection required under Part II F.

5. Amendments, modifications, or updates to the SWPPP shall be signed in accordance with Part III K.

C. Public Notification. Upon commencement of land disturbance, the operator shall post conspicuously a copy of the notice of coverage letter near the main entrance of the construction activity. For linear projects, the operator shall post the notice of coverage letter at a publicly accessible location near an active part of the construction project (e.g., where a pipeline crosses a public road). The operator shall maintain the posted information until termination of general permit coverage as specified in Part I F.

D. SWPPP availability.

1. Operators with day-to-day operational control over SWPPP implementation shall have a copy of the SWPPP available at a central location on-site for use by those identified as having responsibilities under the SWPPP whenever they are on the construction site.

2. The operator shall make the SWPPP and all amendments, modifications, and updates available upon request to the department, the VSMP authority, the EPA, the VESCP authority, local government officials, or the operator of a municipal separate storm sewer system receiving discharges from the construction activity. If an on-site location is unavailable to store the SWPPP when no personnel are present, notice of the SWPPP's location must be posted near the main entrance of the construction site.

3. The operator shall make the SWPPP available for public review in an electronic format or in hard copy. Information for public access to the SWPPP shall be posted and maintained in accordance with Part II C. If not provided electronically, public access to the SWPPP may be arranged upon request at a time and at a publicly accessible location convenient to the operator or his designee but shall be no less than once per month and shall be during normal business hours. Information not required to be contained within the SWPPP by this general permit is not required to be released.

E. SWPPP implementation. The operator shall implement the SWPPP and subsequent amendments, modifications, and updates from commencement of land disturbance until termination of general permit coverage as specified in Part I F.

1. All control measures must be properly maintained in effective operating condition in accordance with good engineering practices and, where applicable, manufacturer specifications. If a site inspection required by Part II F identifies a control measure that is not operating effectively, corrective action(s) shall be completed as soon as practicable, but no later than seven days after discovery or a longer period as established by the VSMP authority, to maintain the continued effectiveness of the control measures.

2. If site inspections required by Part II F identify an existing control measure that needs to be modified or if an additional control measure is necessary for any reason, implementation shall be completed prior to the next anticipated measurable storm event. If implementation prior to the next anticipated measurable storm event is impracticable, then alternative control measures shall be implemented as soon as practicable, but no later than seven days after discovery or a longer period as established by the VSMP authority.

F. SWPPP Inspections.

1. Personnel responsible for on-site and off-site inspections. Inspections required by this general permit shall be conducted by the qualified personnel identified by the operator in the SWPPP. The operator is responsible for insuring that the qualified personnel conduct the inspection.
2. Inspection schedule.
   a. Inspections shall be conducted at a frequency of:
      (1) At least once every five business days; or
      (2) At least once every 10 business days and no later than 48 hours following a
          measurable storm event. In the event that a measurable storm event occurs when
          there are more than 48 hours between business days, the inspection shall be
          conducted no later than the next business day.
   b. Where areas have been temporarily stabilized or land-disturbing activities will be
      suspended due to continuous frozen ground conditions and stormwater discharges
      are unlikely, the inspection frequency may be reduced to once per month. If weather
      conditions (such as above freezing temperatures or rain or snow events) make
      discharges likely, the operator shall immediately resume the regular inspection
      frequency.
   c. Representative inspections may be utilized for utility line installation, pipeline
      construction, or other similar linear construction activities provided that:
      (1) Temporary or permanent soil stabilization has been installed and vehicle access
          may compromise the temporary or permanent soil stabilization and potentially cause
          additional land disturbance increasing the potential for erosion;
      (2) Inspections occur on the same frequency as other construction activities;
      (3) Control measures are inspected along the construction site 0.25 miles above and
          below each access point (i.e., where a roadway, undisturbed right-of-way, or other
          similar feature intersects the construction activity and access does not compromise
          temporary or permanent soil stabilization); and
      (4) Inspection locations are provided in the report required by Part II F.

3. Inspection requirements.
   a. As part of the inspection, the qualified personnel shall:
      (1) Record the date and time of the inspection and when applicable the date and
          rainfall amount of the last measurable storm event;
      (2) Record the information and a description of any discharges occurring at the time
          of the inspection;
      (3) Record any land-disturbing activities that have occurred outside of the approved
          erosion and sediment control plan;
      (4) Inspect the following for installation in accordance with the approved erosion and
          sediment control plan, identification of any maintenance needs, and evaluation of
          effectiveness in minimizing sediment discharge, including whether the control has
          been inappropriately or incorrectly used:
          (a) All perimeter erosion and sediment controls, such as silt fence;
          (b) Soil stockpiles, when applicable, and borrow areas for stabilization or sediment
              trapping measures;
          (c) Completed earthen structures, such as dams, dikes, ditches, and diversions for
              stabilization;
          (d) Cut and fill slopes;
          (e) Sediment basins and traps, sediment barriers, and other measures installed to
              control sediment discharge from stormwater;
          (f) Temporary or permanent channel, flume, or other slope drain structures installed
              to convey concentrated runoff down cut and fill slopes;
(g) Storm inlets that have been made operational to ensure that sediment laden stormwater does not enter without first being filtered or similarly treated; and

(h) Construction vehicle access routes that intersect or access paved roads for minimizing sediment tracking;

(5) Inspect areas that have reached final grade or that will remain dormant for more than 14 days for initiation of stabilization activities;

(6) Inspect areas that have reached final grade or that will remain dormant for more than 14 days for completion of stabilization activities within seven days of reaching grade or stopping work;

(7) Inspect for evidence that the approved erosion and sediment control plan, "agreement in lieu of a plan," or erosion and sediment control plan prepared in accordance with department-approved annual standards and specifications has not been properly implemented. This includes but is not limited to:

(a) Concentrated flows of stormwater in conveyances such as rills, rivulets or channels that have not been filtered, settled, or similarly treated prior to discharge, or evidence thereof;

(b) Sediment laden or turbid flows of stormwater that have not been filtered or settled to remove sediments prior to discharge;

(c) Sediment deposition in areas that drain to unprotected stormwater inlets or catch basins that discharge to surface waters. Inlets and catch basins with failing sediments controls due to improper installation, lack of maintenance, or inadequate design are considered unprotected;

(d) Sediment deposition on any property (including public and private streets) outside of the construction activity covered by this general permit;

(e) Required stabilization has not been initiated or completed on portions of the site;

(f) Sediment basins without adequate wet or dry storage volume or sediment basins that allow the discharge of stormwater from below the surface of the wet storage portion of the basin;

(g) Sediment traps without adequate wet or dry storage or sediment traps that allow the discharge of stormwater from below the surface of the wet storage portion of the trap; and

(h) Land disturbance outside of the approved area to be disturbed;

(8) Inspect pollutant generating activities identified in the pollution prevention plan for the proper implementation, maintenance and effectiveness of the procedures and practices;

(9) Identify any pollutant generating activities not identified in the pollution prevention plan; and

(10) Identify and document the presence of any evidence of the discharge of pollutants prohibited by this general permit.

4. Inspection report. Each inspection report shall include the following items:

   a. The date and time of the inspection and when applicable, the date and rainfall amount of the last measurable storm event;

   b. Summarized findings of the inspection;

   c. The location(s) of prohibited discharges;

   d. The location(s) of control measures that require maintenance;
e. The location(s) of control measures that failed to operate as designed or proved inadequate or inappropriate for a particular location;

f. The location(s) where any evidence identified under Part II F 3 a (7) exists;

g. The location(s) where any additional control measure is needed that did not exist at the time of inspection;

h. A list of corrective actions required (including any changes to the SWPPP that are necessary) as a result of the inspection or to maintain permit compliance;

i. Documentation of any corrective actions required from a previous inspection that have not been implemented; and

j. The date and signature of the qualified personnel and the operator or its duly authorized representative.

The inspection report and any actions taken in accordance with Part II must be retained by the operator as part of the SWPPP for at least three years from the date that general permit coverage expires or is terminated. The inspection report shall identify any incidents of noncompliance. Where an inspection report does not identify any incidents of noncompliance, the report shall contain a certification that the construction activity is in compliance with the SWPPP and this general permit. The report shall be signed in accordance with Part III K of this general permit.

G. Corrective actions.

1. The operator shall implement the corrective action(s) identified as a result of an inspection as soon as practicable but no later than seven days after discovery or a longer period as approved by the VSMP authority. If approval of a corrective action by a regulatory authority (e.g., VSMP authority, VESCP authority, or the department) is necessary, additional control measures shall be implemented to minimize pollutants in stormwater discharges until such approvals can be obtained.

2. The operator may be required to remove accumulated sediment deposits located outside of the construction activity covered by this general permit as soon as practicable in order to minimize environmental impacts. The operator shall notify the VSMP authority and the department as well as obtain all applicable federal, state, and local authorizations, approvals, and permits prior to the removal of sediments accumulated in surface waters including wetlands.

PART III
CONDITIONS APPLICABLE TO ALL VPDES PERMITS

NOTE: Discharge monitoring is not required for this general permit. If the operator chooses to monitor stormwater discharges or control measures, the operator must comply with the requirements of subsections A, B, and C, as appropriate.

A. Monitoring.

1. Samples and measurements taken for the purpose of monitoring shall be representative of the monitoring activity.

2. Monitoring shall be conducted according to procedures approved under 40 CFR Part 136 or alternative methods approved by the U.S. Environmental Protection Agency, unless other procedures have been specified in this general permit. Analyses performed according to test procedures approved under 40 CFR Part 136 shall be performed by an environmental laboratory certified under regulations adopted by the Department of General Services (1VAC30-45 or 1VAC30-46).
3. The operator shall periodically calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at intervals that will ensure accuracy of measurements.

B. Records.
1. Monitoring records and reports shall include:
   a. The date, exact place, and time of sampling or measurements;
   b. The individual(s) who performed the sampling or measurements;
   c. The date(s) and time(s) analyses were performed;
   d. The individual(s) who performed the analyses;
   e. The analytical techniques or methods used; and
   f. The results of such analyses.

2. The operator shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this general permit, and records of all data used to complete the registration statement for this general permit, for a period of at least three years from the date of the sample, measurement, report or request for coverage. This period of retention shall be extended automatically during the course of any unresolved litigation regarding the regulated activity or regarding control standards applicable to the operator, or as requested by the board.

C. Reporting monitoring results.
1. The operator shall update the SWPPP to include the results of the monitoring as may be performed in accordance with this general permit, unless another reporting schedule is specified elsewhere in this general permit.

2. Monitoring results shall be reported on a discharge monitoring report (DMR); on forms provided, approved or specified by the department; or in any format provided that the date, location, parameter, method, and result of the monitoring activity are included.

3. If the operator monitors any pollutant specifically addressed by this general permit more frequently than required by this general permit using test procedures approved under 40 CFR Part 136 or using other test procedures approved by the U.S. Environmental Protection Agency or using procedures specified in this general permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR or reporting form specified by the department.

4. Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in this general permit.

D. Duty to provide information. The operator shall furnish, within a reasonable time, any information which the board may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this general permit or to determine compliance with this general permit. The board, department, EPA, or VSMP authority may require the operator to furnish, upon request, such plans, specifications, and other pertinent information as may be necessary to determine the effect of the wastes from his discharge on the quality of surface waters, or such other information as may be necessary to accomplish the purposes of the CWA and the Virginia Stormwater Management Act. The operator shall also furnish to the board, department, EPA, or VSMP authority, upon request, copies of records required to be kept by this general permit.

E. Compliance schedule reports. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this general permit shall be submitted no later than 14 days following each schedule date.
F. Unauthorized stormwater discharges. Pursuant to § 62.1-44.5 of the Code of Virginia, except in compliance with a state permit issued by the department, it shall be unlawful to cause a stormwater discharge from a construction activity.

G. Reports of unauthorized discharges. Any operator who discharges or causes or allows a discharge of sewage, industrial waste, other wastes or any noxious or deleterious substance or a hazardous substance or oil in an amount equal to or in excess of a reportable quantity established under either 40 CFR Part 110, 40 CFR Part 117, 40 CFR Part 302, or § 62.1-44.34:19 of the Code of Virginia that occurs during a 24-hour period into or upon surface waters or who discharges or causes or allows a discharge that may reasonably be expected to enter surface waters, shall notify the Department of Environmental Quality of the discharge immediately upon discovery of the discharge, but in no case later than within 24 hours after said discovery. A written report of the unauthorized discharge shall be submitted to the department and the VSMP authority within five days of discovery of the discharge. The written report shall contain:

1. A description of the nature and location of the discharge;
2. The cause of the discharge;
3. The date on which the discharge occurred;
4. The length of time that the discharge continued;
5. The volume of the discharge;
6. If the discharge is continuing, how long it is expected to continue;
7. If the discharge is continuing, what the expected total volume of the discharge will be; and
8. Any steps planned or taken to reduce, eliminate and prevent a recurrence of the present discharge or any future discharges not authorized by this general permit.

Discharges reportable to the department and the VSMP authority under the immediate reporting requirements of other regulations are exempted from this requirement.

H. Reports of unusual or extraordinary discharges. If any unusual or extraordinary discharge including a "bypass" or "upset", as defined herein, should occur from a facility and the discharge enters or could be expected to enter surface waters, the operator shall promptly notify, in no case later than within 24 hours, the department and the VSMP authority by telephone after the discovery of the discharge. This notification shall provide all available details of the incident, including any adverse effects on aquatic life and the known number of fish killed. The operator shall reduce the report to writing and shall submit it to the department and the VSMP authority within five days of discovery of the discharge in accordance with Part III I 2. Unusual and extraordinary discharges include but are not limited to any discharge resulting from:

1. Unusual spillage of materials resulting directly or indirectly from processing operations;
2. Breakdown of processing or accessory equipment;
3. Failure or taking out of service of some or all of the facilities; and
4. Flooding or other acts of nature.

I. Reports of noncompliance. The operator shall report any noncompliance which may adversely affect surface waters or may endanger public health.

1. An oral report to the department and the VSMP authority shall be provided within 24 hours from the time the operator becomes aware of the circumstances. The following shall be included as information that shall be reported within 24 hours under this subdivision:
a. Any unanticipated bypass; and
b. Any upset that causes a discharge to surface waters.

2. A written report shall be submitted within five days and shall contain:
   a. A description of the noncompliance and its cause;
   b. The period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and
   c. Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

The department may waive the written report on a case-by-case basis for reports of noncompliance under Part III I if the oral report has been received within 24 hours and no adverse impact on surface waters has been reported.

3. The operator shall report all instances of noncompliance not reported under Part III I 1 or 2 in writing as part of the SWPPP. The reports shall contain the information listed in Part III I 2.

NOTE: The reports required in Part III G, H and I shall be made to the department and the VSMP authority. Reports may be made by telephone, email, or by fax. For reports outside normal working hours, leaving a recorded message shall fulfill the immediate reporting requirement. For emergencies, the Virginia Department of Emergency Management maintains a 24-hour telephone service at 1-800-468-8892.

4. Where the operator becomes aware of a failure to submit any relevant facts, or submittal of incorrect information in any report, including a registration statement, to the department or the VSMP authority, the operator shall promptly submit such facts or correct information.

J. Notice of planned changes.

1. The operator shall give notice to the department and the VSMP authority as soon as possible of any planned physical alterations or additions to the permitted facility or activity. Notice is required only when:
   a. The operator plans an alteration or addition to any building, structure, facility, or installation that may meet one of the criteria for determining whether a facility is a new source in 9VAC25-870-420;
   b. The operator plans an alteration or addition that would significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants that are not subject to effluent limitations in this general permit; or

2. The operator shall give advance notice to the department and VSMP authority of any planned changes in the permitted facility or activity, which may result in noncompliance with state permit requirements.

K. Signatory requirements.

1. Registration statement. All registration statements shall be signed as follows:
   a. For a corporation: by a responsible corporate officer. For the purpose of this chapter, a responsible corporate officer means: (i) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy-making or decision-making functions for the corporation; or (ii) the manager of one or more manufacturing, production, or operating facilities, provided the manager is authorized to make management decisions that govern the operation of the regulated facility including having the
explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long-term compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for state permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;

b. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or

c. For a municipality, state, federal, or other public agency: by either a principal executive officer or ranking elected official. For purposes of this chapter, a principal executive officer of a public agency includes: (i) the chief executive officer of the agency or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.

2. Reports, etc. All reports required by this general permit, including SWPPPs, and other information requested by the board or the department shall be signed by a person described in Part III K 1 or by a duly authorized representative of that person. A person is a duly authorized representative only if:

a. The authorization is made in writing by a person described in Part III K 1;

b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the operator. (A duly authorized representative may thus be either a named individual or any individual occupying a named position); and

c. The signed and dated written authorization is included in the SWPPP. A copy must be provided to the department and VSMP authority, if requested.

3. Changes to authorization. If an authorization under Part III K 2 is no longer accurate because a different individual or position has responsibility for the overall operation of the construction activity, a new authorization satisfying the requirements of Part III K 2 shall be submitted to the VSMP authority as the administering entity for the board prior to or together with any reports or information to be signed by an authorized representative.

4. Certification. Any person signing a document under Part III K 1 or 2 shall make the following certification:

"I certify under penalty of law that I have read and understand this document and that this document and all attachments were prepared in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

L. Duty to comply. The operator shall comply with all conditions of this general permit. Any state permit noncompliance constitutes a violation of the Virginia Stormwater Management Act and the Clean Water Act, except that noncompliance with certain provisions of this general permit may constitute a violation of the Virginia Stormwater Management Act but not the Clean Water Act. Permit noncompliance is grounds for enforcement action; for state permit
termination, revocation and reissuance, or modification; or denial of a state permit renewal application.

The operator shall comply with effluent standards or prohibitions established under § 307(a) of the Clean Water Act for toxic pollutants within the time provided in the regulations that establish these standards or prohibitions or standards for sewage sludge use or disposal, even if this general permit has not yet been modified to incorporate the requirement.

M. Duty to reapply. If the operator wishes to continue an activity regulated by this general permit after the expiration date of this general permit, the operator shall submit a new registration statement at least 90 days before the expiration date of the existing general permit, unless permission for a later date has been granted by the board. The board shall not grant permission for registration statements to be submitted later than the expiration date of the existing general permit.

N. Effect of a state permit. This general permit does not convey any property rights in either real or personal property or any exclusive privileges, nor does it authorize any injury to private property or invasion of personal rights, or any infringement of federal, state or local law or regulations.

O. State law. Nothing in this general permit shall be construed to preclude the institution of any legal action under, or relieve the operator from any responsibilities, liabilities, or penalties established pursuant to any other state law or regulation or under authority preserved by § 510 of the Clean Water Act. Except as provided in general permit conditions on "bypassing" (Part III U) and "upset" (Part III V), nothing in this general permit shall be construed to relieve the operator from civil and criminal penalties for noncompliance.

P. Oil and hazardous substance liability. Nothing in this general permit shall be construed to preclude the institution of any legal action or relieve the operator from any responsibilities, liabilities, or penalties to which the operator is or may be subject under §§ 62.1-44.34:14 through 62.1-44.34:23 of the State Water Control Law or § 311 of the Clean Water Act.

Q. Proper operation and maintenance. The operator shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances), which are installed or used by the operator to achieve compliance with the conditions of this general permit. Proper operation and maintenance also includes effective plant performance, adequate funding, adequate staffing, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems, which are installed by the operator only when the operation is necessary to achieve compliance with the conditions of this general permit.

R. Disposal of solids or sludges. Solids, sludges or other pollutants removed in the course of treatment or management of pollutants shall be disposed of in a manner so as to prevent any pollutant from such materials from entering surface waters and in compliance with all applicable state and federal laws and regulations.

S. Duty to mitigate. The operator shall take all steps to minimize or prevent any discharge in violation of this general permit that has a reasonable likelihood of adversely affecting human health or the environment.

T. Need to halt or reduce activity not a defense. It shall not be a defense for an operator in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this general permit.

U. Bypass.

1. "Bypass," as defined in 9VAC25-870-10, means the intentional diversion of waste streams from any portion of a treatment facility. The operator may allow any bypass to occur that does not cause effluent limitations to be exceeded, but only if it also is for
essential maintenance to ensure efficient operation. These bypasses are not subject to the provisions of Part III U 2 and 3.

2. Notice.
   a. Anticipated bypass. If the operator knows in advance of the need for a bypass, the operator shall submit prior notice to the department, if possible at least 10 days before the date of the bypass.
   b. Unanticipated bypass. The operator shall submit notice of an unanticipated bypass as required in Part III I.

3. Prohibition of bypass.
   a. Except as provided in Part III U 1, bypass is prohibited, and the board or department may take enforcement action against an operator for bypass unless:
      (1) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage. Severe property damage means substantial physical damage to property, damage to the treatment facilities that causes them to become inoperable, or substantial and permanent loss of natural resources that can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production;
      (2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass that occurred during normal periods of equipment downtime or preventive maintenance; and
      (3) The operator submitted notices as required under Part III U 2.
   b. The department may approve an anticipated bypass, after considering its adverse effects, if the department determines that it will meet the three conditions listed in Part III U 3 a.

V. Upset.
   1. An "upset," as defined in 9VAC25-870-10, means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based state permit effluent limitations because of factors beyond the reasonable control of the operator. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.
   2. An upset constitutes an affirmative defense to an action brought for noncompliance with technology-based state permit effluent limitations if the requirements of Part III V 4 are met. A determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is not a final administrative action subject to judicial review.
   3. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventative maintenance, or careless or improper operation.
   4. An operator who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs or other relevant evidence that:
      a. An upset occurred and that the operator can identify the cause(s) of the upset;
      b. The permitted facility was at the time being properly operated;
c. The operator submitted notice of the upset as required in Part III I; and  
d. The operator complied with any remedial measures required under Part III S.

5. In any enforcement proceeding, the operator seeking to establish the occurrence of an upset has the burden of proof.

W. Inspection and entry. The operator shall allow the department as the board's designee, the VSMP authority, EPA, or an authorized representative of either entity (including an authorized contractor), upon presentation of credentials and other documents as may be required by law to:

1. Enter upon the operator's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this general permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this general permit;
3. Inspect and photograph at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this general permit; and
4. Sample or monitor at reasonable times, for the purposes of ensuring state permit compliance or as otherwise authorized by the Clean Water Act or the Virginia Stormwater Management Act, any substances or parameters at any location.

For purposes of this section, the time for inspection shall be deemed reasonable during regular business hours, and whenever the facility is discharging. Nothing contained herein shall make an inspection unreasonable during an emergency.

X. State permit actions. State permits may be modified, revoked and reissued, or terminated for cause. The filing of a request by the operator for a state permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any state permit condition.

Y. Transfer of state permits.

1. State permits are not transferable to any person except after notice to the department. Except as provided in Part III Y 2, a state permit may be transferred by the operator to a new operator only if the state permit has been modified or revoked and reissued, or a minor modification made, to identify the new operator and incorporate such other requirements as may be necessary under the Virginia Stormwater Management Act and the Clean Water Act.

2. As an alternative to transfers under Part III Y 1, this state permit may be automatically transferred to a new operator if:
   a. The current operator notifies the department at least 30 days in advance of the proposed transfer of the title to the facility or property;
   b. The notice includes a written agreement between the existing and new operators containing a specific date for transfer of state permit responsibility, coverage, and liability between them; and
   c. The department does not notify the existing operator and the proposed new operator of its intent to modify or revoke and reissue the state permit. If this notice is not received, the transfer is effective on the date specified in the agreement mentioned in Part III Y 2 b.

3. For ongoing construction activity involving a change of operator, the new operator shall accept and maintain the existing SWPPP, or prepare and implement a new SWPPP prior to taking over operations at the site.
Z. Severability. The provisions of this general permit are severable, and if any provision of this general permit or the application of any provision of this state permit to any circumstance, is held invalid, the application of such provision to other circumstances and the remainder of this general permit shall not be affected thereby.

9VAC25-880-80. (Repealed.)

9VAC25-880-82. (Repealed.)

9VAC25-880-84. (Repealed.)

9VAC25-880-86. (Repealed.)

9VAC25-880-88. (Repealed.)

9VAC25-880-90. (Repealed.)

9VAC25-880-100. Delegation of authority.
The director, or his designee, may perform any act of the board provided under this chapter, except as limited by § 62.1-44.14 of the Code of Virginia.

FORMS (9VAC25-880)

Department of Environmental Quality Construction Activity Operator Permit Fee Form (rev. 01/2014)

Notice of Termination - General VPDES Permit for Discharges of Stormwater from Construction Activities (VAR10) (rev. 01/2014)

Registration Statement - General VPDES Permit for Discharges of Stormwater from Construction Activities (VAR10) (rev. 01/2014)

Transfer Agreement - General VPDES Permit for Discharges of Stormwater from Construction Activities (VAR10) (rev. 01/2014)
APPENDIX B

SITE FIGURES
ALL DOCUMENTS PREPARED BY PENNONI ASSOCIATES ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE BY OWNER OR OTHERS ON THE EXTENSIONS OF THE PROJECT OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY PENNONI ASSOCIATES FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT OWNER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO PENNONI ASSOCIATES, AND OWNER SHALL INDEMNIFY AND HOLD HARMLESS PENNONI ASSOCIATES FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM.

PROJECT: NSUV1507
DATE: 2015-09-24
DRAWING SCALE: 1"=1000'-0"

DRAWN BY: SA
APPROVED BY: BSC

NORFOLK STATE UNIVERSITY
700 PARK AVENUE
NORFOLK, VIRGINIA

VICINITY MAP

1 OF 2 SHEET
APPENDIX C

E&S CONTROL PLAN AND DETAILS
APPENDIX D

OIL WATER SEPARATOR (STORMFILTER) INSPECTION AND MAINTENANCE PROCEDURES
StormFilter Inspection and Maintenance Procedures
Maintenance Guidelines
The primary purpose of the Stormwater Management StormFilter® is to filter out and prevent pollutants from entering our waterways. Like any effective filtration system, periodically these pollutants must be removed to restore the StormFilter to its full efficiency and effectiveness.

Maintenance requirements and frequency are dependent on the pollutant load characteristics of each site. Maintenance activities may be required in the event of a chemical spill or due to excessive sediment loading from site erosion or extreme storms. It is a good practice to inspect the system after major storm events.

Maintenance Procedures
Although there are many effective maintenance options, we believe the following procedure to be efficient, using common equipment and existing maintenance protocols. The following two-step procedure is recommended:

1. Inspection
   • Inspection of the vault interior to determine the need for maintenance.

2. Maintenance
   • Cartridge replacement
   • Sediment removal

Inspection and Maintenance Timing
At least one scheduled inspection should take place per year with maintenance following as warranted.

First, an inspection should be done before the winter season. During the inspection the need for maintenance should be determined and, if disposal during maintenance will be required, samples of the accumulated sediments and media should be obtained.

Second, if warranted, a maintenance (replacement of the filter cartridges and removal of accumulated sediments) should be performed during periods of dry weather.

In addition to these two activities, it is important to check the condition of the StormFilter unit after major storms for potential damage caused by high flows and for high sediment accumulation that may be caused by localized erosion in the drainage area. It may be necessary to adjust the inspection/maintenance schedule depending on the actual operating conditions encountered by the system. In general, inspection activities can be conducted at any time, and maintenance should occur, if warranted, during dryer months in late summer to early fall.

Maintenance Frequency
The primary factor for determining frequency of maintenance for the StormFilter is sediment loading.

A properly functioning system will remove solids from water by trapping particulates in the porous structure of the filter media inside the cartridges. The flow through the system will naturally decrease as more and more particulates are trapped. Eventually the flow through the cartridges will be low enough to require replacement. It may be possible to extend the usable span of the cartridges by removing sediment from upstream trapping devices on a routine as-needed basis, in order to prevent material from being re-suspended and discharged to the StormFilter treatment system.

The average maintenance lifecycle is approximately 1-3 years. Site conditions greatly influence maintenance requirements. StormFilter units located in areas with erosion or active construction may need to be inspected and maintained more often than those with fully stabilized surface conditions.

Regulatory requirements or a chemical spill can shift maintenance timing as well. The maintenance frequency may be adjusted as additional monitoring information becomes available during the inspection program. Areas that develop known problems should be inspected more frequently than areas that demonstrate no problems, particularly after major storms. Ultimately, inspection and maintenance activities should be scheduled based on the historic records and characteristics of an individual StormFilter system or site. It is recommended that the site owner develop a database to properly manage StormFilter inspection and maintenance programs.
Inspection Procedures

The primary goal of an inspection is to assess the condition of the cartridges relative to the level of visual sediment loading as it relates to decreased treatment capacity. It may be desirable to conduct this inspection during a storm to observe the relative flow through the filter cartridges. If the submerged cartridges are severely plugged, then typically large amounts of sediments will be present and very little flow will be discharged from the drainage pipes. If this is the case, then maintenance is warranted and the cartridges need to be replaced.

Warning: In the case of a spill, the worker should abort inspection activities until the proper guidance is obtained. Notify the local hazard control agency and Contech Engineered Solutions immediately.

To conduct an inspection:

Important: Inspection should be performed by a person who is familiar with the operation and configuration of the StormFilter treatment unit.

1. If applicable, set up safety equipment to protect and notify surrounding vehicle and pedestrian traffic.
2. Visually inspect the external condition of the unit and take notes concerning defects/problems.
3. Open the access portals to the vault and allow the system vent.
4. Without entering the vault, visually inspect the inside of the unit, and note accumulations of liquids and solids.
5. Be sure to record the level of sediment build-up on the floor of the vault, in the forebay, and on top of the cartridges. If flow is occurring, note the flow of water per drainage pipe. Record all observations. Digital pictures are valuable for historical documentation.
6. Close and fasten the access portals.
7. Remove safety equipment.
8. If appropriate, make notes about the local drainage area relative to ongoing construction, erosion problems, or high loading of other materials to the system.
9. Discuss conditions that suggest maintenance and make decision as to weather or not maintenance is needed.

Maintenance Decision Tree

The need for maintenance is typically based on results of the inspection. The following Maintenance Decision Tree should be used as a general guide. (Other factors, such as Regulatory Requirements, may need to be considered)

1. Sediment loading on the vault floor.
   a. If >4” of accumulated sediment, maintenance is required.
2. Sediment loading on top of the cartridge.
   a. If >1/4” of accumulation, maintenance is required.
3. Submerged cartridges.
   a. If >4” of static water in the cartridge bay for more that 24 hours after end of rain event, maintenance is required.
4. Plugged media.
   a. If pore space between media granules is absent, maintenance is required.
5. Bypass condition.
   a. If inspection is conducted during an average rain fall event and StormFilter remains in bypass condition (water over the internal outlet baffle wall or submerged cartridges), maintenance is required.
6. Hazardous material release.
   a. If hazardous material release (automotive fluids or other) is reported, maintenance is required.
7. Pronounced scum line.
   a. If pronounced scum line (say ≥ 1/4” thick) is present above top cap, maintenance is required.
8. Calendar Lifecycle.
   a. If system has not been maintained for 3 years maintenance is required.
Maintenance

Depending on the configuration of the particular system, maintenance personnel will be required to enter the vault to perform the maintenance.

**Important:** If vault entry is required, OSHA rules for confined space entry must be followed.

Filter cartridge replacement should occur during dry weather. It may be necessary to plug the filter inlet pipe if base flows is occurring.

Replacement cartridges can be delivered to the site or customers facility. Information concerning how to obtain the replacement cartridges is available from Contech Engineered Solutions.

**Warning:** In the case of a spill, the maintenance personnel should abort maintenance activities until the proper guidance is obtained. Notify the local hazard control agency and Contech Engineered Solutions immediately.

To conduct cartridge replacement and sediment removal maintenance:

1. If applicable, set up safety equipment to protect maintenance personnel and pedestrians from site hazards.
2. Visually inspect the external condition of the unit and take notes concerning defects/problems.
3. Open the doors (access portals) to the vault and allow the system to vent.
4. Without entering the vault, give the inside of the unit, including components, a general condition inspection.
5. Make notes about the external and internal condition of the vault. Give particular attention to recording the level of sediment build-up on the floor of the vault, in the forebay, and on top of the internal components.
6. Using appropriate equipment offload the replacement cartridges (up to 150 lbs. each) and set aside.
7. Remove used cartridges from the vault using one of the following methods:

**Method 1:**

A. This activity will require that maintenance personnel enter the vault to remove the cartridges from the under drain manifold and place them under the vault opening for lifting (removal). Disconnect each filter cartridge from the underdrain connector by rotating counterclockwise 1/4 of a turn. Roll the loose cartridge, on edge, to a convenient spot beneath the vault access.

Using appropriate hoisting equipment, attach a cable from the boom, crane, or tripod to the loose cartridge. Contact Contech Engineered Solutions for suggested attachment devices.

B. Remove the used cartridges (up to 250 lbs. each) from the vault.

**Important:** Care must be used to avoid damaging the cartridges during removal and installation. The cost of repairing components damaged during maintenance will be the responsibility of the owner.

C. Set the used cartridge aside or load onto the hauling truck.

D. Continue steps a through c until all cartridges have been removed.

**Method 2:**

A. This activity will require that maintenance personnel enter the vault to remove the cartridges from the under drain manifold and place them under the vault opening for lifting (removal). Disconnect each filter cartridge from the underdrain connector by rotating counterclockwise 1/4 of a turn. Roll the loose cartridge, on edge, to a convenient spot beneath the vault access.

B. Unscrew the cartridge cap.

C. Remove the cartridge hood and float.

D. At location under structure access, tip the cartridge on its
side.

E. Empty the cartridge onto the vault floor. Reassemble the empty cartridge.

F. Set the empty, used cartridge aside or load onto the hauling truck.

G. Continue steps a through e until all cartridges have been removed.

8. Remove accumulated sediment from the floor of the vault and from the forebay. This can most effectively be accomplished by use of a vacuum truck.

9. Once the sediments are removed, assess the condition of the vault and the condition of the connectors.

10. Using the vacuum truck boom, crane, or tripod, lower and install the new cartridges. Once again, take care not to damage connections.

11. Close and fasten the door.

12. Remove safety equipment.

13. Finally, dispose of the accumulated materials in accordance with applicable regulations. Make arrangements to return the
Inspection Report

truck decant facility, local waste water treatment plant or on-site treatment and discharge.

Date: ____________________________ Personnel: ____________________________

Location: ____________________________ System Size: ____________________________

System Type: ☐ Vault ☐ Cast-In-Place ☐ Linear Catch Basin ☐ Manhole ☐ Date: ____________________________ Other: ____________________________

Sediment Thickness in Forebay: ____________________________

Sediment Depth on Vault Floor: ____________________________

Structural Damage: ____________________________

Estimated Flow from Drainage Pipes (if available): ____________________________

Cartridges Submerged: ☐ Yes ☐ No ☐ Depth of Standing Water: ____________________________

StormFilter Maintenance Activities (check off if done and give description)

☐ Trash and Debris Removal: ____________________________

☐ Minor Structural Repairs: ____________________________

☐ Drainage Area Report

☐ Excessive Oil Loading: ☐ Yes ☐ No ☐ Source: ____________________________

☐ Sediment Accumulation on Pavement: ☐ Yes ☐ No ☐ Source: ____________________________

☐ Erosion of Landscaped Areas: ☐ Yes ☐ No ☐ Source: ____________________________

Items Needing Further Work: ____________________________

Owners should contact the local public works department and inquire about how the department disposes of their street waste residuals.

Other Comments:

______________________________________________________

______________________________________________________

______________________________________________________

______________________________________________________

______________________________________________________

______________________________________________________
Review the condition reports from the previous inspection visits.

**StormFilter Maintenance Report**

Date: ____________________ Personnel: ____________________

Location: ____________________ System Size: ____________________

System Type:  
- Vault [ ]  
- Cast-In-Place [ ]  
- Linear Catch Basin [ ]  
- Manhole [ ]  
- Other [ ]

List Safety Procedures and Equipment Used: ____________________

---

**System Observations**

Months in Service: ____________________

Oil in Forebay (if present):  
- Yes [ ]  
- No [ ]

Sediment Depth in Forebay (if present): ____________________

Sediment Depth on Vault Floor: ____________________

Structural Damage: ____________________

---

**Drainage Area Report**

Excessive Oil Loading:  
- Yes [ ]  
- No [ ]  
Source: ____________________

Sediment Accumulation on Pavement:  
- Yes [ ]  
- No [ ]  
Source: ____________________

Erosion of Landscaped Areas:  
- Yes [ ]  
- No [ ]  
Source: ____________________

---

**StormFilter Cartridge Replacement Maintenance Activities**

Remove Trash and Debris:  
- Yes [ ]  
- No [ ]  
Details: ____________________

Replace Cartridges:  
- Yes [ ]  
- No [ ]  
Details: ____________________

Sediment Removed:  
- Yes [ ]  
- No [ ]  
Details: ____________________

Quantity of Sediment Removed (estimate?): ____________________

Minor Structural Repairs:  
- Yes [ ]  
- No [ ]  
Details: ____________________

Residuals (debris, sediment) Disposal Methods: ____________________

---

Notes:

________________________

________________________

________________________

________________________

________________________

________________________
Related Maintenance Activities - Performed on an as-needed basis

StormFilter units are often just one of many structures in a more comprehensive stormwater drainage and treatment system. In order for maintenance of the StormFilter to be successful, it is imperative that all other components be properly maintained. The maintenance/repair of upstream facilities should be carried out prior to StormFilter maintenance activities.

In addition to considering upstream facilities, it is also important to correct any problems identified in the drainage area. Drainage area concerns may include: erosion problems, heavy oil loading, and discharges of inappropriate materials.

Material Disposal

The accumulated sediment found in stormwater treatment and conveyance systems must be handled and disposed of in accordance with regulatory protocols. It is possible for sediments to contain measurable concentrations of heavy metals and organic chemicals (such as pesticides and petroleum products). Areas with the greatest potential for high pollutant loading include industrial areas and heavily traveled roads.

Sediments and water must be disposed of in accordance with all applicable waste disposal regulations. When scheduling maintenance, consideration must be made for the disposal of solid and liquid wastes. This typically requires coordination with a local landfill for solid waste disposal. For liquid waste disposal a number of options are available including a municipal vacuum.
APPENDIX E

CONTRACTOR MAINTENANCE TABLE
SWPPP AMMENDMENT LOG
# Table 1

**Record of E & S Control Measures**

<table>
<thead>
<tr>
<th>E &amp; S Control Measure</th>
<th>Installation Company</th>
<th>Contractor or Subcontractor?</th>
<th>Responsible Installer</th>
<th>Date Installed</th>
<th>Date Removed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storm Drain Inlet Protection</td>
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<tr>
<td>Oil Water Separator(StormFilter)</td>
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</tbody>
</table>

Tables 1 & 2 - Record of E&S Measures and Land Disturbance.xls
### Table 2

**Record of Maintenance Activities**

<table>
<thead>
<tr>
<th>Location</th>
<th>Dates</th>
<th>Operational and Maintenance Activities Began</th>
<th>Operational and Maintenance Activities Ended</th>
<th>Operational and Maintenance Activities</th>
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Tables 1 & 2 - Record of E&S Measures and Land Disturbance.xls
Table 3
SWPPP Amendment Log

<table>
<thead>
<tr>
<th>Amendment Number</th>
<th>Description of Amendment</th>
<th>Date of Amendment</th>
<th>Amendment Prepared by: [Name(s) and Title]</th>
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<tbody>
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APPENDIX F

INSPECTION REPORTS
# Stormwater Construction Site Inspection Report

## General Information

<table>
<thead>
<tr>
<th>Project Name</th>
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</thead>
<tbody>
<tr>
<td>Location</td>
<td></td>
</tr>
<tr>
<td>Date of Inspection</td>
<td>Start/End Time</td>
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<tr>
<td>Inspector’s Name(s)</td>
<td></td>
</tr>
<tr>
<td>Inspector’s Title(s)</td>
<td></td>
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<tr>
<td>Inspector’s Contact Information</td>
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</tbody>
</table>

## Phase of Construction

- [ ] Pre-construction conference
- [ ] Clearing and grubbing
- [ ] Rough grading
- [ ] Finish Grading
- [ ] Final stabilization
- [ ] Const. of SWM Facilities
- [ ] Maint. of SWM Facilities
- [ ] Other _____________

## Type of Inspection

- [ ] Regular
- [ ] Pre-storm event
- [ ] During storm event
- [ ] Post-storm event

## Weather Information

- Has there been a storm event since the last inspection? [ ] Yes [ ] No

  If yes, provide:
  - Storm Start Date & Time:
  - Storm Duration (hrs):
  - Approximate Amount of Precipitation (in):

## Weather at time of this inspection?

- Clear
- Cloudy
- Rain
- Sleet
- Fog
- Snowing
- High Winds
- Other:
  - Temperature:

## Have any discharges occurred since the last inspection? [ ] Yes [ ] No

If yes, describe:

## Are there any discharges at the time of inspection? [ ] Yes [ ] No

If yes, describe:

---

### Site-specific BMPs

- *Number the structural and non-structural BMPs identified in your SWPPP on your site map and list them below (add as many BMPs as necessary). Carry a copy of the numbered site map with you during your inspections. This list will ensure that you are inspecting all required BMPs at your site.*

- *Describe corrective actions initiated, date completed, and note the person that completed the work in the Corrective Action Log.*

<table>
<thead>
<tr>
<th>BMP</th>
<th>BMP Installed?</th>
<th>BMP Maintenance Required?</th>
<th>Corrective Action Needed and Notes</th>
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<tbody>
<tr>
<td>1</td>
<td>[ ] Yes [ ] No</td>
<td>[ ] Yes [ ] No</td>
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<tr>
<td>BMP</td>
<td>BMP Installed?</td>
<td>BMP Maintenance Required?</td>
<td>Corrective Action Needed and Notes</td>
</tr>
<tr>
<td>-----</td>
<td>----------------</td>
<td>---------------------------</td>
<td>-----------------------------------</td>
</tr>
<tr>
<td>15</td>
<td>Yes No</td>
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<td>16</td>
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<td>Yes No</td>
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<td>17</td>
<td>Yes No</td>
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<td>18</td>
<td>Yes No</td>
<td>Yes No</td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>Yes No</td>
<td>Yes No</td>
<td></td>
</tr>
<tr>
<td>20</td>
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<td>Yes No</td>
<td></td>
</tr>
<tr>
<td>21</td>
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<td>Yes No</td>
<td></td>
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<td>Yes No</td>
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<td>26</td>
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<td>Yes No</td>
<td>Yes No</td>
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</tr>
<tr>
<td>28</td>
<td>Yes No</td>
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<td>41</td>
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<td>43</td>
<td>Yes No</td>
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<td>44</td>
<td>Yes No</td>
<td>Yes No</td>
<td></td>
</tr>
<tr>
<td>45</td>
<td>Yes No</td>
<td>Yes No</td>
<td></td>
</tr>
</tbody>
</table>

**Overall Site Issues**

*Below are some general site issues that should be assessed during inspections. Customize this list as needed for conditions at your site.*

<table>
<thead>
<tr>
<th>BMP/activity</th>
<th>Implemented?</th>
<th>Maintenance Required?</th>
<th>Corrective Action Needed and Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Yes No</td>
<td>Yes No</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Yes No</td>
<td>Yes No</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Yes No</td>
<td>Yes No</td>
<td></td>
</tr>
<tr>
<td>No.</td>
<td>BMP/activity</td>
<td>Implemented?</td>
<td>Maintenance Required?</td>
</tr>
<tr>
<td>-----</td>
<td>------------------------------------------------------------------------------</td>
<td>--------------</td>
<td>------------------------</td>
</tr>
<tr>
<td>4</td>
<td>Are discharge points and receiving waters free of any sediment deposits?</td>
<td>Yes No</td>
<td>Yes No</td>
</tr>
<tr>
<td>5</td>
<td>Are storm drain inlets properly protected?</td>
<td>Yes No</td>
<td>Yes No</td>
</tr>
<tr>
<td>6</td>
<td>Is the construction exit preventing sediment from being tracked into the street?</td>
<td>Yes No</td>
<td>Yes No</td>
</tr>
<tr>
<td>7</td>
<td>Is trash/litter from work areas collected and placed in covered dumpsters?</td>
<td>Yes No</td>
<td>Yes No</td>
</tr>
<tr>
<td>8</td>
<td>Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked, and maintained?</td>
<td>Yes No</td>
<td>Yes No</td>
</tr>
<tr>
<td>9</td>
<td>Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills, leaks, or any other deleterious material?</td>
<td>Yes No</td>
<td>Yes No</td>
</tr>
<tr>
<td>10</td>
<td>Are materials that are potential stormwater contaminants stored inside or under cover?</td>
<td>Yes No</td>
<td>Yes No</td>
</tr>
<tr>
<td>11</td>
<td>Are non-stormwater discharges (e.g., wash water, dewatering) properly controlled?</td>
<td>Yes No</td>
<td>Yes No</td>
</tr>
<tr>
<td>12</td>
<td>(Other)</td>
<td>Yes No</td>
<td>Yes No</td>
</tr>
</tbody>
</table>

**Non-Compliance**

Describe any incidents of non-compliance not described above:
CERTIFICATION STATEMENT

“I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.”

Print name and title: ________________________________________________________________

Signature:_________________________________________ Date:_________________
APPENDIX G

PUBLIC NOTIFICATION
**SWPPP MAINTENANCE SITE NOTICE FOR THE VSMP GENERAL PERMIT**

<table>
<thead>
<tr>
<th>City Project Name and Number:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>City Project Inspector Contact Information:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
</tr>
<tr>
<td>Office Phone Number</td>
</tr>
<tr>
<td>Cell Phone Number</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Contractor Name &amp; Number: (both Site Superintendents)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
</tr>
<tr>
<td>Office Phone Number</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Name</td>
</tr>
<tr>
<td>Office Phone Number</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Project Description:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>
APPENDIX H

TRAINING RECORDS
SWPPP Training Log

Project Name: ________________________________

Project Location: ________________________________

Instructor’s Name(s): ________________________________

Instructor’s Title(s): ________________________________

Course Location: ________________________________

Course Length (hours): ________________________________

Date: ________________________________

Stormwater Training General Topic*: (check as appropriate)

- [ ] Erosion Control BMPs         - [ ] Emergency Procedures
- [ ] Sediment Control BMPs       - [ ] Good Housekeeping BMPs
- [ ] Non-Stormwater BMPs         - [ ] Pollution Prevention

Specific Training Objective: ____________________________________________

________________________________________

Attendee Roster: (attach additional pages as necessary)

<table>
<thead>
<tr>
<th>No.</th>
<th>Name of Attendee</th>
<th>Company</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
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<td></td>
</tr>
<tr>
<td>2</td>
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<td>3</td>
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<td>10</td>
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</tr>
</tbody>
</table>

*For specific training topics, please refer to the Stormwater Pollution Prevention Plan.
APPENDIX I

IMPAIRED WATERS
2012 Impaired Waters
Category 4 & 5 by 2012 Impaired Area ID*

James River Basin

Cause Group Code: **G01E-03-PCB - James River and Various Tributaries**

| Location: | Estuarine James River from the fall line to the Hampton Roads Bridge Tunnel, including several tributaries listed below. |
| City/County | Charles City Co., Chesapeake City, Chesterfield Co., Colonial Heights City, Dinwiddie Co., Hampton City, Henrico Co., Hopewell City, Isle Of Wight Co., James City Co., New Kent Co., Newport News City, Norfolk City, Petersburg City, Portsmouth City, Prince George Co., Richmond City, Suffolk City, Surry Co., Virginia Beach City, Williamsburg City |
| Use(s): | Fish Consumption |
| Cause(s) / VA Category: | PCB in Fish Tissue / 5A |

During the 2002 cycle, the James River from the Fall line to Queens Creek was considered not supporting the Fish Consumption Use due to PCBs in multiple fish species at multiple DEQ monitoring locations.

During the 2004 cycle, a VDH Fish Consumption Restriction was issued from the fall line to Flowerdew Hundred and the segment was adjusted slightly to match the Restriction. In addition, in the 2004 cycle, the Chickahominy River from Walkers Dam to Diascund Creek was assessed as not supporting the Fish Consumption Use because the DEQ screening value for PCBs was exceeded in 3 species during sampling in 2001.

During the 2006 cycle, the VDH restriction was extended on 12/13/2004 to extend from the I-95 bridge downstream to the Hampton Roads Bridge Tunnel and include the tidal portions of the following tributaries:

- Appomattox River up to Lake Chesdin Dam
- Bailey Creek up to Route 630
- Bailey Bay
- Chickahominy River up to Walkers Dam
- Skiffes Creek up to Skiffes Creek Dam
- Pagan River and its tributary Jones Creek
- Chuckatuck Creek
- Nansemond River and its tributaries Bennett Creek and Star Creek
- Hampton River
- Willoughby Bay and the Elizabeth R. system (Western, Eastern, and Southern Branches and Lafayette R.) and tributaries St. Julian Creek, Deep Creek, and Broad Creek

The advisory was modified again on 10/10/2006 to add Poythress Run.

The impairments were combined. The TMDL for the lower extended portion is due in 2018.
<table>
<thead>
<tr>
<th>Assessment Unit</th>
<th>Water name</th>
<th>Location Description</th>
<th>Cause Category</th>
<th>Cause Name</th>
<th>Cycle First Listed</th>
<th>TMDL Schedule</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>VAT-G15E_EBE01A00</td>
<td>Eastern Branch, Elizabeth R. - Upper</td>
<td>Located between Carolanne Farms and Tanglewood areas. Upper Eastern Br., from headwaters to confluence of Broad Creek (RM 4.0). CBP segment EBEMH. BIBI segment EBEMHa. DSS (ADMINISTRATIVE) shellfish condemnation # 056-007 E (effective 20090518).</td>
<td>5A</td>
<td>PCB in Fish Tissue</td>
<td>2006</td>
<td>2018</td>
<td>0.38</td>
</tr>
<tr>
<td>VAT-G15E_EBE02A06</td>
<td>Eastern Branch, Elizabeth R. - Lower</td>
<td>Located between Tanglewood area to mouth. From Broad Creek (RM 4.0) downstream to the confluence with Elizabeth R. mainstem. CBP segment EBEMH. BIBI segment EBEMHa. DSS (ADMINISTRATIVE) shellfish condemnation # 056-007 E (effective 20090518).</td>
<td>5A</td>
<td>PCB in Fish Tissue</td>
<td>2006</td>
<td>2018</td>
<td>1.02</td>
</tr>
<tr>
<td>VAT-G15E_STM01A10</td>
<td>Steamboat Creek</td>
<td>South Shore trib to E. Branch. CBP segment EBEMH. BIBI segment EBEMHa. DSS (ADMINISTRATIVE) shellfish condemnation # 056-007 E (effective 20090518).</td>
<td>5A</td>
<td>PCB in Fish Tissue</td>
<td>2006</td>
<td>2018</td>
<td>0.06</td>
</tr>
<tr>
<td>VAT-G15E_ZZZ03A08</td>
<td>Unsegmented estuaries in EBEMH</td>
<td>CBP segment EBEMH. BIBI segment EBEMHa. DSS (ADMINISTRATIVE) shellfish condemnation # 056-007 E (effective 20090518).</td>
<td>5A</td>
<td>PCB in Fish Tissue</td>
<td>2006</td>
<td>2018</td>
<td>0.26</td>
</tr>
</tbody>
</table>

**James River and Various Tributaries**

**Impaired area ID: VAT-G15E-02-02**

**Fish Consumption**

PCB in Fish Tissue / 5A

Total impaired size by water type: 1.71

**Sources:**
- Contaminated Sediments
- Source Unknown
- Sources Outside State Jurisdiction or Borders

* Narrative descriptions, location and city/county describe the entire extent of the impairment. Sizes may not represent the total size of the impairment.
2012 Impaired Waters
Category 4 & 5 by 2012 Impaired Area ID

James River Basin

Cause Group Code: EBEMH-DO-BAY - Eastern Branch, Elizabeth River and Indian River

| Location | This cause encompasses the Eastern Branch of the Elizabeth River, from Broad Creek (RM 4.0) downstream to the confluence with Elizabeth River mainstem, and the entirety of Indian River. CBP segment EBEMH. Located between Tanglewood area to mouth. |
| City/County | Chesapeake City, Norfolk City, Virginia Beach City |
| Use(s) | Aquatic Life, Open-Water Aquatic Life |
| Cause(s) / VA Category | Oxygen, Dissolved / 4A, Oxygen, Dissolved / 4A |

The Aquatic Life and Open-Water Aquatic Life Uses are impaired based on failure to meet the CBP dissolved oxygen criteria for Open Water - Summer & "Rest of Year (ROY).

<table>
<thead>
<tr>
<th>Assessment Unit</th>
<th>Water name</th>
<th>Location Description</th>
<th>Cause Category</th>
<th>Cause Name</th>
<th>Cycle First Listed</th>
<th>TMDL Schedule</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>VAT-G15E_EBE01A00</td>
<td>Eastern Branch, Elizabeth R. - Upper</td>
<td>Located between Carolanne Farms and Tanglewood areas, Upper Eastern Br., from headwaters to confluence of Broad Creek (RM 4.0). CBP segment EBEMH. BIBI segment EBEMHa. DSS (ADMINISTRATIVE) shellfish condemnation # 056-007 E (effective 20090518).</td>
<td>4A</td>
<td>Oxygen, Dissolved</td>
<td>2006</td>
<td>2010</td>
<td>0.76</td>
</tr>
<tr>
<td>VAT-G15E_EBE02A06</td>
<td>Eastern Branch, Elizabeth R. - Lower</td>
<td>Located between Tanglewood area to mouth. From Broad Creek (RM 4.0) downstream to the confluence with Elizabeth R. mainstem. CBP segment EBEMH. BIBI segment EBEMHa. DSS (ADMINISTRATIVE) shellfish condemnation # 056-007 E (effective 20090518).</td>
<td>4A</td>
<td>Oxygen, Dissolved</td>
<td>2006</td>
<td>2010</td>
<td>2.03</td>
</tr>
<tr>
<td>VAT-G15E_ZZZ03A08</td>
<td>Unsegmented estuaries in EBEMH</td>
<td>CBP segment EBEMH. BIBI segment EBEMHa. DSS (ADMINISTRATIVE) shellfish condemnation # 056-007 E (effective 20090518).</td>
<td>4A</td>
<td>Oxygen, Dissolved</td>
<td>2006</td>
<td>2010</td>
<td>0.52</td>
</tr>
</tbody>
</table>

Eastern Branch, Elizabeth River and Indian River

Impaired area ID: VAT-G15E-02-02

Aquatic Life

Oxygen, Dissolved / 4A

Total impaired size by water type: 1.65

<table>
<thead>
<tr>
<th>Assessment Unit</th>
<th>Water name</th>
<th>Location Description</th>
<th>Cause Category</th>
<th>Cause Name</th>
<th>Cycle First Listed</th>
<th>TMDL Schedule</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>VAT-G15E_EBE01A00</td>
<td>Eastern Branch, Elizabeth R. - Upper</td>
<td>Located between Carolanne Farms and Tanglewood areas, Upper Eastern Br., from headwaters to confluence of Broad Creek (RM 4.0). CBP segment EBEMH. BIBI segment EBEMHa. DSS (ADMINISTRATIVE) shellfish condemnation # 056-007 E (effective 20090518).</td>
<td>4A</td>
<td>Oxygen, Dissolved</td>
<td>2006</td>
<td>2010</td>
<td>0.76</td>
</tr>
<tr>
<td>VAT-G15E_EBE02A06</td>
<td>Eastern Branch, Elizabeth R. - Lower</td>
<td>Located between Tanglewood area to mouth. From Broad Creek (RM 4.0) downstream to the confluence with Elizabeth R. mainstem. CBP segment EBEMH. BIBI segment EBEMHa. DSS (ADMINISTRATIVE) shellfish condemnation # 056-007 E (effective 20090518).</td>
<td>4A</td>
<td>Oxygen, Dissolved</td>
<td>2006</td>
<td>2010</td>
<td>2.03</td>
</tr>
<tr>
<td>VAT-G15E_ZZZ03A08</td>
<td>Unsegmented estuaries in EBEMH</td>
<td>CBP segment EBEMH. BIBI segment EBEMHa. DSS (ADMINISTRATIVE) shellfish condemnation # 056-007 E (effective 20090518).</td>
<td>4A</td>
<td>Oxygen, Dissolved</td>
<td>2006</td>
<td>2010</td>
<td>0.52</td>
</tr>
</tbody>
</table>

**Impaired area ID: VAT-G15E-02-02**

**Open-Water Aquatic Life**

Oxygen, Dissolved / 4A

Total impaired size by water type: 1.65

### Sources:

- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Non-Point Source)
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

* Narrative descriptions, location and city/county describe the entire extent of the impairment. Sizes may not represent the total size of the impairment.
## 2012 Impaired Waters

### Category 4 & 5 by 2012 Impaired Area ID*

#### James River Basin

**Cause Group Code:** G15E-02-04-EBEN - Eastern Branch Elizabeth River, Broad Creek and Unsegmented estuaries in EBEMH

| Location | This cause encompasses the entirety of the Eastern Branch Elizabeth River and Broad Creek. Located between Carolanne Farms and Tanglewood areas. Upper Eastern Branch, from headwaters to confluence of Broad Creek (RM 4.0). CBP segment EBEMH. BIBI segment EBEMHa. |
| City/County | Chesapeake City, Norfolk City, Virginia Beach City |
| Use(s): | Aquatic Life |
| Cause(s) / VA Category: | Estuarine Bioassessments / 5A |

The Aquatic Life Use is impaired based on failure to meet a statistical evaluation constituting an un-impacted benthic organism population per CBP (Benthic-BIBI) analysis. The source/stressor tool yielded an unknown source for the impairment. This segment was previously included (2004 IR) in TMDL ID: VAT-G15E-01-03. The TMDL due date is carried from the previous 2004 IR impairment identification date.

<table>
<thead>
<tr>
<th>Assessment Unit</th>
<th>Water name</th>
<th>Location Description</th>
<th>Cause Category</th>
<th>Cause Name</th>
<th>Cycle First Listed</th>
<th>TMDL Schedule</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>VAT-G15E_EBE01A00</td>
<td>Eastern Branch, Elizabeth R. - Upper</td>
<td>Located between Carolanne Farms and Tanglewood areas. Upper Eastern Br., from headwaters to confluence of Broad Creek (RM 4.0). CBP segment EBEMH. BIBI segment EBEMHa. DSS (ADMINISTRATIVE) shellfish condemnation # 056-007 E (effective 20090518).</td>
<td>5A</td>
<td>Estuarine Bioassessments</td>
<td>2004</td>
<td>2016</td>
<td>0.38</td>
</tr>
<tr>
<td>VAT-G15E_EBE02A06</td>
<td>Eastern Branch, Elizabeth R. - Lower</td>
<td>Located between Tanglewood area to mouth. From Broad Creek (RM 4.0) downstream to the confluence with Elizabeth R. mainstem. CBP segment EBEMH. BIBI segment EBEMHa. DSS (ADMINISTRATIVE) shellfish condemnation # 056-007 E (effective 20090518).</td>
<td>5A</td>
<td>Estuarine Bioassessments</td>
<td>2004</td>
<td>2016</td>
<td>1.02</td>
</tr>
<tr>
<td>VAT-G15E_STM01A10</td>
<td>Steamboat Creek</td>
<td>South Shore trib to E. Branch. CBP segment EBEMH. BIBI segment EBEMHa. DSS (ADMINISTRATIVE) shellfish condemnation # 056-007 E (effective 20090518).</td>
<td>5A</td>
<td>Estuarine Bioassessments</td>
<td>2006</td>
<td>2018</td>
<td>0.06</td>
</tr>
<tr>
<td>VAT-G15E_ZZZ03A08</td>
<td>Unsegmented estuaries in EBEMH</td>
<td>CBP segment EBEMH. BIBI segment EBEMHa. DSS (ADMINISTRATIVE) shellfish condemnation # 056-007 E (effective 20090518).</td>
<td>5A</td>
<td>Estuarine Bioassessments</td>
<td>2006</td>
<td>2018</td>
<td>0.26</td>
</tr>
</tbody>
</table>
Eastern Branch Elizabeth River, Broad Creek and Unsegmented estuaries in EBEMH

<table>
<thead>
<tr>
<th>Impaired area ID: VAT-G15E-02-02</th>
<th>Estuarine Bioassessments / 5A</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Total impaired size by water type:</td>
</tr>
<tr>
<td></td>
<td>1.71</td>
</tr>
</tbody>
</table>

Aquatic Life

Sources:

- Contaminated Sediments
- Source Unknown

* Narrative descriptions, location and city/county describe the entire extent of the impairment. Sizes may not represent the total size of the impairment.
2012 Impaired Waters
Category 4 & 5 by 2012 Impaired Area ID*

James River Basin

Cause Group Code: SBEMH-DO-BAY - Chesapeake Bay segment SBEMH (Southern Branch, Elizabeth River)

<table>
<thead>
<tr>
<th>Location:</th>
<th>This cause encompasses the complete CPB segment SBEMH</th>
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<tbody>
<tr>
<td>City/County</td>
<td>Chesapeake City, Norfolk City, Portsmouth City, Virginia Beach City</td>
</tr>
<tr>
<td>Use(s):</td>
<td>Aquatic Life, Deep-Water Aquatic Life, Open-Water Aquatic Life</td>
</tr>
<tr>
<td>Cause(s) / VA Category:</td>
<td>Oxygen, Dissolved / 4A, Oxygen, Dissolved / 4A</td>
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The Aquatic Life and Open-Water Aquatic Life Use is impaired based on failure to meet the dissolved oxygen criteria for Open Water - Summer & ROY. There is insufficient data to assess the remaining shorter-term dissolved oxygen criteria for these uses. EPA approved Chesapeake Bay TMDL 12/29/2010.

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<th>Cause Name</th>
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<th>TMDL Schedule</th>
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<td>4A</td>
<td>Oxygen, Dissolved</td>
<td>2006</td>
<td>2010</td>
<td>0.12</td>
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Chesapeake Bay segment SBEMH (Southern Branch, Elizabeth River)

Impaired area ID: VAT-G15E-02-02

Aquatic Life

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Open-Water Aquatic Life

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Impaired area ID: VAT-G15E-02-02

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Non-Point Source)
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

* Narrative descriptions, location and city/county describe the entire extent of the impairment. Sizes may not represent the total size of the impairment.