

REGIONAL PHASE II STORMWATER PROGRAM PLAN

For

Virginia General Permit for Small Municipal Separate Storm Sewer
Systems; Permit #VAR040114



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STORMWATER MANAGEMENT PLAN

In accordance with the requirements set forth in the Virginia Stormwater Management Act and the Virginia Stormwater Management Program (VSMP) Permit regulations, this stormwater management plan identifies the minimum control measures to be implemented at the following Navy installations designated as regulated small municipal separate storm sewer systems (MS4).

Installations covered by the U.S. Navy's Consolidated MS4 Permit, VAR040114:

- Naval Station Norfolk
- Joint Expeditionary Base Little Creek
- Joint Expeditionary Base Fort Story
- Naval Air Station Oceana
- Dam Neck Annex
- Scott Center Annex
- Portsmouth Naval Medical Center - (Effective 10/01/2011)

This plan details the framework for a comprehensive program to minimize stormwater pollution by identifying the best management practices (BMPs), measurable goals, and responsible parties for achieving compliance in accordance with 4VAC50-60-1240, Section II B of the VSMP Phase II MS4 General Permit. Unless specifically noted, the minimum control measures described within this stormwater program plan will be implemented on a regional scale at the regulated installations within the Hampton Roads area.

Minimum Control Measure 1: Public Education and Outreach

The Phase II MS4 Program requirement found in 4VAC50-60-1240 Section II.B.1, states:

“Implement a public education program to distribute educational materials to the community or conduct equivalent outreach activities about the impacts of storm water discharges on water bodies and the steps that the public can take to reduce pollutants in stormwater runoff.

The operator shall identify, schedule, implement, evaluate and modify, as necessary, BMPs to meet the following public education and outreach measureable goals:

- a. Increased individual and household knowledge about the steps that they can take to reduce stormwater pollution, placing priority on reducing impacts to impaired waters and other local water pollution concerns;*
- b. Increased public employee, business, and general public knowledge of hazards associated with illegal discharges and improper disposal of waste, including pertinent legal implications;*
- c. Increased individual and group involvement in local water quality improvement initiatives including the promotion of local restoration and clean up projects, programs, groups, meetings and other opportunities for public involvement;*
- d. Diverse strategies to target audiences specific to the area serviced by the regulated small MS4;*
- e. Improved outreach program to address viewpoints and concerns of target audiences, with a recommended focus on minorities, disadvantaged audiences and minors ; and*
- f. Targeted strategies towards local groups of commercial, industrial, and institutional entities likely to have significant stormwater impacts.”*

The educational materials and/or public outreach program(s) implemented will inform personnel, residents, and contractors about the steps that can be taken to reduce stormwater pollution to the maximum extent practicable (MEP). The best management practices identified in this plan as 1.1 to 1.6 will be executed to satisfy the public education and outreach requirements set forth by the General Permit (VAR04).

1.1 Newspaper Articles and Ads:

Articles and ads will be placed in base publication(s) with educational topics on stormwater pollution and prevention.

- ✚ Measurable goal.** *On a semi-annual basis, in permit years 1 through 5 include at least one article/ad in base publications addressing stormwater pollution prevention.*
- ✚ Reporting and record keeping.** *Retain a copy of all articles/ads published and record the dates of publication.*

- ✚ **Responsible party.** *The Phase II Water Program Media Manager is responsible for developing the educational stormwater articles/ads and coordinating submissions to the base publications point of contact.*

1.2 Environmental Awareness Trainings for Target Audiences:

Conduct Environmental Awareness Trainings with multi-media topics, which will include stormwater pollution prevention, to be presented to targeted audiences of base personnel, residents, and/or contractors.

- ✚ **Measurable goal.** *In permit year 1, evaluate and update stormwater pollution prevention materials utilized as part of the Environmental Awareness Training Program. In permit years 2 through 5, include updated stormwater pollution prevention information in the Environmental Awareness Training given to targeted audiences.*
- ✚ **Reporting and record keeping.** *Record and report the number of people trained and dates in which trainings were given.*
- ✚ **Responsible party.** *The Phase II Water Program Media Manager and Installation Environmental Media Managers will develop and present environmental awareness trainings to targeted audiences. The Phase II Water Program Media Manager will be responsible for the reporting and record-keeping requirement for this MCM.*

1.3 Stormwater Management Training through ECATTS:

Develop and maintain stormwater management training modules used as part of the web based Environmental Compliance Assessment, Training, and Tracking System (ECATTS). ECATTS is a web based application used to train base personnel, residents, and contractors.

- ✚ **Measurable goal.** *In permit year 1 develop stormwater training modules used in the ECATTS training application. In permit years 2 through 5 annually review and update as needed the ECATTS stormwater training modules.*
- ✚ **Reporting and record keeping.** *Record and report the number of people trained on each stormwater training module presented through ECATTS.*
- ✚ **Responsible party.** *The Phase II Water Program Media Manager and the Installation Water Program Media Managers are responsible for providing revisions to the ECATTS administrator for annual updates to the stormwater training modules. The ECATTS administrator will provide personnel training data to the Phase II Water Program Media Manager to meet the reporting and record keeping requirement for this MCM.*

1.4 Stormwater Educational Brochures:

Distribute stormwater educational brochures to military housing areas, MWR facilities, and on-base common areas. Multiple brochures will be developed for distribution to targeted audiences. The brochures may cover topics such as: preventing stormwater pollution, properly disposing of hazardous products at home, conserving water and decreasing pollution from car washing activities, and decreasing stormwater pollution from your lawn.

- ✚ **Measurable goal.** *In permit years 1 through 5, on a semi-annual basis distribute stormwater educational brochures to targeted areas.*
- ✚ **Reporting and record keeping.** *Retain a copy of each brochure distributed and record the date, location, and number of brochures distributed.*
- ✚ **Responsible party.** *The Phase II Water Program Media Manager will be responsible for brochure development and distribution to installation common areas, MWR facilities, and military housing property manager(s).*

1.5 Industrial Activity Poster:

Distribute industrial activity pollution prevention posters to targeted on-base industrial activities.

- ✚ **Measurable goal.** *In permit year 1 update list of activities that should be targeted for poster distribution. In permit years 2 through 5, distribute posters to targeted activities.*
- ✚ **Reporting and record keeping.** *Retain a copy of the poster and record the number of posters distributed.*
- ✚ **Responsible party.** *The Phase II Water Program Manager and Installation Water Program Media Managers will be responsible distribution of the industrial activity pollution prevention posters. The Phase II Water Program Media Manager will be responsible for the reporting and record keeping requirements associated with this MCM.*

1.6 Evaluation and Assessment.

Conduct an annual assessment of the best management practices performed by the MS4 program to meet the measureable goals for minimum control measure 1.

- ✚ **Measurable goal.** *Annually evaluate and assess program progress toward meeting all measureable goals for the BMP's implemented as part of minimum control measure 1.*
- ✚ **Reporting and record keeping.** *Report on assessment as part of annual report.*
- ✚ **Responsible party.** *The Phase II Water Program Media Manager will be responsible for program evaluation and assessment.*

Minimum Control Measure 2: Public Involvement and Participation

The Phase II MS4 Program requirement found in 4VAC50-60-1240 Section II.B.2, states:

“The operator shall comply with applicable state, tribal, and local public notice requirements and identify, schedule, implement, evaluate and modify, as necessary, BMPs to meet the following public involvement/participation measurable goals:

- a. Promote the availability of the operator's MS4 Program Plan and any modifications for public review and comment. Public notice shall be given by any method reasonably calculated to give actual notice of the action in question to the persons potentially affected by it, including press releases or any other forum or medium to elicit public participation. Provide access to or copies of the MS4 Program Plan [or any modifications] upon request of interested parties in compliance with all applicable freedom of information regulations;*
- b. Provide access to or copies of the annual report upon request of interested parties in compliance with all applicable freedom of information regulations; and*
- c. Participate, through promotion, sponsorship, or other involvement, in local activities aimed at increasing public participation to reduce stormwater pollutant loads and improve water quality.”*

The best management practices identified in this plan as BMP 2.1 to 2.4 will be executed to satisfy the public involvement and participation requirements set forth by the General Permit (VAR04).

2.1 Public Review of the MS4 Program Plan and Annual Reports:

The MS4 Program Plan and completed annual reports will be made available to the public upon request in accordance with the requirements set forth in Section II.B.2 (a) of the General Permit. In addition, the MS4 Program Plan and any modifications to the plan will be posted on the NAVFAC-ML Environmental Compliance website to promote public review and comment.

- ✚ Measurable goal.** *In permit year 1, post the SWMP on the regional environmental website and make good-faith efforts to notify the public of its availability for review. In permit years 2 through 5, update as needed the SWMP posted on the environmental website and track all public comments received on the SWMP.*
- ✚ Reporting and record keeping.** *Retain a log of all requests for the review of the SWMP and Annual Reports, and track all comments and responses received from public reviews.*
- ✚ Responsible party.** *The Phase II Water Program Media Manager is responsible for accepting and responding to comments received regarding the SWMP.*

2.2 Storm Drain Marking Program:

Implement a storm drain marking program as a tool to involve and educate base personnel, employees, and residents about stormwater pollution prevention. Volunteers and environmental personnel will be used to conduct storm drain marking efforts.

- ✚ **Measurable goal.** *In permit year 1, evaluate and target areas for storm drain marking efforts. In permit years 1 through 5, conduct annual storm drain marking efforts.*
- ✚ **Reporting and record keeping.** *Record location, date, number of storm drains marked, and if applicable the number of volunteer participants for each storm drain marking event.*
- ✚ **Responsible party.** *The Phase II Water Program Media Manager will be responsible for obtaining the storm drain markers and coordinating the marking program.*

2.3 Annual Clean the Bay Day:

Promote base personnel participation in the annual Clean the Bay Day efforts to reduce stormwater pollutant loads and improve local water quality.

- ✚ **Measurable goal.** *In permit years 1 through 5, inform and involve base groups in the annual Clean the Bay Day efforts.*
- ✚ **Reporting and record keeping.** *Record the number of volunteers utilized and an estimate of the volume of litter collected.*
- ✚ **Responsible party.** *The Phase II Water Program Media Manager is responsible for coordinating with NAVY REC Staff and Installation Environmental Personnel to promote and document participation and efforts.*

2.4 Evaluation and Assessment:

Conduct an annual assessment of the best management practices performed by the MS4 program to meet the measurable goals for minimum control measure 2.

- ✚ **Measurable goal.** *Annually evaluate and assess program progress toward meeting all measurable goals for the BMP's implemented as part of minimum control measure 2.*
- ✚ **Reporting and record keeping.** *Report on assessment as part of annual report.*
- ✚ **Responsible party.** *The Phase II Water Program Media Manager will be responsible for evaluation and assessment of progress.*

Minimum Control Measure 3: Illicit Discharge Detection and Elimination

The Phase II MS4 Program requirement found in 4VAC50-60-1240 Section II.B.3, states:

“The MS4 Program shall:

a. Develop, implement and enforce a program to detect and eliminate illicit discharges, as defined at 4VAC50-60-10, into the regulated small MS4. The department recommends that the operator review the publication entitled "Illicit Discharge Detection and Elimination: A Guidance Manual for Program Development and Technical Assessments," Environmental Protection Agency (EPA) cooperative agreement number X-82907801-0, for guidance in implementing and evaluating its illicit discharge detection and elimination program;

b. Develop, if not already completed, and maintain, an updated storm sewer system map, showing the location of all known outfalls of the regulated small MS4 including those physically interconnected to a regulated MS4, the associated surface waters and HUCs, and the names and locations of all impaired surface waters that receive discharges from those outfalls. The operator shall also estimate the acreage within the regulated small MS4 discharging to each HUC and impaired water;

c. To the extent allowable under state, tribal or local law or other regulatory mechanism, effectively prohibit, through ordinance, or other regulatory mechanism, non-stormwater discharges into the storm sewer system and implement appropriate enforcement procedures and actions;

The following categories of nonstormwater discharges or flows (i.e., illicit discharges) must be addressed only if they are identified by the operator, the State Water Control Board, or by the board as significant contributors of pollutants to the regulated small MS4: water line flushing, landscape irrigation, diverted stream flows, rising ground waters, uncontaminated ground water infiltration, uncontaminated pumped ground water, discharges from potable water sources, foundation drains, air conditioning condensation, irrigation water, springs, water from crawl space pumps, footing drains, lawn watering, individual residential car washing, flows from riparian habitats and wetlands, dechlorinated swimming pool discharges, street wash water, discharges or flows from fire fighting activities, and flows that have been identified in writing by the Department of Environmental Quality as de minimis discharges that are not significant sources of pollutants to state waters and not requiring a VPDES permit;

d. Develop and implement procedures to detect and address non-stormwater discharges, including illegal dumping, to the regulated small MS4;

e. Prevent or minimize to the maximum extent practicable, the discharge of hazardous substances or oil in the stormwater discharge(s) from the regulated small MS4. In addition, the MS4 Program must be reviewed to identify measures to prevent the recurrence of such releases and to respond to such releases, and the program must be modified where appropriate. This permit does not relieve the operator or the responsible parties of any reporting requirements of 40 CFR Part 110 (2001), 40 CFR Part 117 (2001) and 40 CFR Part 302 (2001) or §62.1-44.34:19 of the Code of Virginia;

f. Track the number of illicit discharges identified, provide narrative on how they were controlled or eliminated, and submit the information in accordance with Section II E 3; and

g. Notify, in writing, any downstream regulated MS4 to which the small regulated MS4 is physically interconnected of the small regulated MS4's connection to that system.

The best management practices identified in this plan as BMP 3.1 to 3.5 will be executed to satisfy the illicit discharge detection and elimination requirements set forth by the General Permit (VAR04).

3.1 Conduct Illicit Discharge Surveys and Eliminate Illicit Connections:

Identify and prioritize installations in need of illicit discharge surveys and coordinate surveys for completion. For Installations which have had IDDE surveys performed in the past, emphasis will be placed on any un-surveyed areas and on IDDE surveys of new construction or operational changes.

- ✚ **Measurable goal.** *In permit year 1, prioritize areas for illicit discharge surveys. During permit years 2 through 5, conduct surveys and coordinate the removal of any identified illicit discharges or connections.*
- ✚ **Reporting and Record Keeping.** *Record the dates of performed IDDE surveys and retain illicit discharge survey documentation.*
- ✚ **Responsible party.** *The Installation Water Program Media Managers and the Phase II Water Program Media Manager will be responsible for planning and coordinating the illicit discharge survey and elimination efforts.*

3.2 Update Storm Sewer Mapping:

Develop if not already completed and maintain updated storm sewer mapping that includes items identified in section II.B.3.b of the General Permit (VAR04). Storm sewer mapping is a dual requirement that is completed as part of the compliance activities performed for installations covered by VPDES Industrial stormwater permits.

- ✚ **Measurable goal.** *In permit year 1 identify installations that do not have updated storm sewer mapping. In permit years 2 through 5, plan for and coordinate storm sewer mapping and updates.*
- ✚ **Reporting and Record Keeping.** *Record revision dates on storm system mapping for each regulated installation.*
- ✚ **Responsible party** *The Installation Water Program Media Managers will be responsible for providing revision dates of installation storm sewer maps to the Phase II Water Program Media Manager. The Phase II Water Program Media Manager will be responsible for storm sewer mapping planning and coordination at installations not covered by a VPDES stormwater permit.*

3.3 Public Education for Illicit Discharges:

Public education materials and trainings will be developed and presented to personnel with topics covering illicit discharges and spill control.

- ✚ **Measurable goal.** *In permit years 1 through 5, include information addressing illicit discharges in the public education BMPs identified in MCM 1.*
- ✚ **Reporting and record keeping.** *Retain copies of materials published and dates of publication.*
- ✚ **Responsible party.** *The Phase II Water Program Media Manager is responsible for including illicit discharge information in the public education*

BMPs. The Spill Program Media Manager is responsible for conducting and tracking spill trainings.

3.4 Spill Control Tracking Database:

Implement and maintain a spill incident tracking database. The database will include the incident date, location, material, responsible party, and corrective actions taken for each reported spill occurrence.

- ✚ **Measurable goal.** *In permit year 1 through 5 continually maintain a current spill incident tracking database.*
- ✚ **Reporting and record keeping.** *Retain the spill incident tracking database for annual reporting.*
- ✚ **Responsible party.** *The Spill Program Media Manager will be responsible for the Hampton Roads Spill Log database. The Phase II Water Program Media Manager will be responsible for coordinating with the Hampton Roads Spill Program Media Manager to obtain reporting and record keeping information.*

3.5 Evaluation and Assessment:

Conduct an annual assessment of the best management practices performed by the MS4 program to meet the measureable goals for minimum control measure 3.

- ✚ **Measurable goal.** *Annually evaluate and assess program progress toward meeting all measureable goals for the BMP's implemented as part of minimum control measure 3.*
- ✚ **Reporting and record keeping.** *Report on assessment as part of annual report.*
- ✚ **Responsible party.** *The Phase II Water Program Media Manager will be responsible for evaluation and assessment of progress.*

Minimum Control Measure 4: Construction Site Runoff Control

The Phase II MS4 Program requirement found in 4VAC50-60-1240 Section II.B.4, states:

“4. Construction site stormwater runoff control.

a. The operator shall develop, implement, and enforce procedures to reduce pollutants in any stormwater runoff to the regulated small MS4 from construction activities that result in a land disturbance of greater than or equal to one acre or equal to or greater than 2,500 square feet in all areas of the jurisdictions designated as subject to the Chesapeake Bay Preservation Area Designation and Management Regulations adopted pursuant to the Chesapeake Bay Preservation Act. Additionally, reduction of stormwater discharges from construction activity disturbing less than one acre must be included in the program if that construction activity is part of a larger common plan of development or sale that would disturb one acre or more.

The procedures must include the development and implementation of, at a minimum:

(1) An ordinance or other mechanism to require erosion and sediment controls, as well as sanctions to ensure compliance with the Erosion and Sediment Control Law and attendant regulations, to the extent allowable under state, tribal, or local law. Such ordinances and other mechanisms shall be updated as necessary;

(2) Requirements for construction site owners and operators to implement appropriate erosion and sediment control best management practices as part of an erosion and sediment control plan that is consistent with the Erosion and Sediment Control Law and attendant regulations and other applicable requirements of state, tribal, or local law. Where determined appropriate by the operator, the operator shall encourage the use of structural and nonstructural design techniques to create a design that has the goal of maintaining or replicating predevelopment runoff characteristics and site hydrology;

(3) Requirements for construction site owners and operators to secure authorization to discharge stormwater from construction activities under a VSMP permit for construction activities that result in a land disturbance of greater than or equal to one acre or equal to or greater than 2,500 square feet in all areas of the jurisdictions designated as subject to the Chesapeake Bay Preservation Area Designation and Management Regulations adopted pursuant to the Chesapeake Bay Preservation Act. Additionally, stormwater discharges from construction activity disturbing less than one acre must secure authorization to discharge under a VSMP permit if that construction activity is part of a larger common plan of development or sale that would disturb one acre or more;

(4) Procedures for receipt and consideration of information submitted by the public; and

(5) Procedures for site inspection and enforcement of control measures.

b. The operator shall ensure that plan reviewers, inspectors, program administrators and construction site owners and operators obtain the appropriate certifications as required under the Erosion and Sediment Control Law;

c. The operator shall track regulated land-disturbing activities and submit the following information in accordance with Section II E 3:

(1) Total number of regulated land-disturbing activities; and

(2) Total disturbed acreage.”

The best management practices identified in this plan as BMP 4.1 to 4.9 will be executed to satisfy the construction site runoff control requirements set forth by the General Permit (VAR04).

4.1 Erosion and Sediment Control Instruction:

An Erosion and Sediment (E&S) Control Instruction has been developed and will be maintained and enforced to require adherence to the Virginia Erosion and Sediment Control Law and Regulations for all construction activities that result in a land disturbance of 10,000 square feet or greater.

- ✦ **Measurable goal.** *In permit years 1 through 5 maintain and enforce the NAVFAC-ML E&S Control Instruction.*
- ✦ **Reporting and record keeping.** *Retain a copy of the instruction along with any revision dates.*
- ✦ **Responsible party.** *The Phase II Water Program Manager will be responsible updating the E&S Control Instruction as necessary.*

4.2 Erosion and Sediment Control Plan Review:

Erosion and sediment control plans shall undergo a plan review to ensure that plans are consistent with the requirements set forth in the Virginia Erosion and Sediment Control Law and Regulations, and the COMNAVREG MIDLANT Erosion and Sediment Control Instruction.

- ✦ **Measurable goal.** *In permit years 1 through 5, construction activities disturbing over 10,000 square feet must have an E&S Control plan developed and reviewed prior to project commencement.*
- ✦ **Reporting and record keeping.** *Maintain a log to track plan reviews that are performed by NAVFAC-ML EV. Record the number of plans submitted for review, along with the project title and date when plan review is performed.*
- ✦ **Responsible party.** *The Phase II Water Program Media Manager is responsible for performing E&S Control Plan reviews for NAVFAC-ML EV.*

4.3 VSMP Construction Permit Instruction:

A VSMP Construction Permit Instruction has been developed and will be maintained and enforced to require adherence to the Virginia Stormwater Management Program (VSMP) Construction General Permit for construction activities that result in a land disturbance of greater than or equal to one acre, or activities greater than 2500 square feet which are part of a "Larger Common Plan of Development".

- ✦ **Measurable goal.** *In permit years 1 through 5 maintain and enforce the COMNAVREG MIDLANT VSMP Construction Permit Instruction.*
- ✦ **Reporting and record keeping.** *Retain a copy of the instruction along with revision dates.*
- ✦ **Responsible party.** *The Phase II Water Program Manager will be responsible for updating the VSMP Construction Permit Instruction as necessary.*

4.4 Construction Activity SWMP and SWPPP Review:

Stormwater management plans and construction site stormwater pollution prevention plans for activities disturbing 1 acre or greater shall undergo a plan review to ensure that each plan is consistent with the requirements set forth in the Virginia Stormwater Management Law and Regulations and COMNAVREG MIDLANT Instructions.

- ✚ **Measurable goal.** *In permit years 1 through 5, construction activities disturbing equal to or greater than 1 acre must develop a SWMP and SWPPP, and these plans must be reviewed to ensure compliance with applicable regulations.*
- ✚ **Reporting and record keeping.** *Maintain a log to track plan reviews that are performed by NAFVAC-ML EV. Record the number of plans submitted for review, along with the project title and date when plan review is performed.*
- ✚ **Responsible party.** *The Phase II Water Program Media Manager is responsible for performing SWMP and SWPPP reviews for NAVFAC-ML EV.*

4.5 Construction Project Inspection Program:

Provide oversight inspections of active construction sites to monitor for compliance with the Virginia E&S Law and Regulations, the Virginia Stormwater Management Law and Regulations, and Navy requirements.

- ✚ **Measurable goal.** *In permit years 1 through 5, prioritize active construction sites for inspections and perform routine oversight inspections of construction activities to monitor for compliance.*
- ✚ **Reporting and record keeping.** *Record the number of project inspections performed, date which they are performed, and retain completed project inspection reports.*
- ✚ **Responsible party.** *The Phase II Water Program Media Manager will be responsible for prioritizing activities for inspections and conducting inspections to monitor for compliance.*

4.6 Public Comment Tracking:

In accordance with the requirements set forth in the General Permit (VAR04), a procedure will be implemented for the receipt and consideration of public comment regarding construction site stormwater runoff.

- ✚ **Measurable goal.** *In permit years 1 through 5, maintain procedure for consideration of public comment and track all public comments received regarding the construction site runoff control program.*
- ✚ **Reporting and record keeping.** *Record the number of public comments received and any actions taken to address comments.*

- ✦ **Responsible party.** *The Phase II Water Program Media Manager is responsible for addressing public comments received and retaining record keeping documentation for this BMP.*

4.7 Construction Project Tracking:

A program will be implemented to track the total number of regulated construction activities that are performed and the total disturbed acreage associated with each.

- ✦ **Measurable goal.** *In permit years 1 through 5, implement and maintain a program to annually track the total number of regulated construction activities being performed and the total disturbed acreage associated with each activity.*
- ✦ **Reporting and record keeping.** *Report the total number of regulated construction activities performed and the total disturbed acreage.*
- ✦ **Responsible party.** *The Phase II Water Program Media Manager will be responsible for developing and implementing the tracking procedures.*

4.8 Erosion and Sediment Control Certifications:

Procedures will be implemented to ensure that construction site owners and operators obtain the appropriate certifications as required under the Virginia Erosion and Sediment Control Law and Regulations (VESCL&R).

- ✦ **Measurable goal.** *In permit years 1 through 5, during routine oversight inspections verify that contractor personnel obtain certifications as required per the VESCL&R.*
- ✦ **Reporting and record keeping.** *Record the certified personnel's name and certification number for each regulated construction activity inspected as part of the BMP 4.5.*
- ✦ **Responsible party.** *The Phase II Water Program Media Manager will be responsible for tracking E&S Control Certifications.*

4.9 Evaluation and Assessment:

Conduct an annual assessment of the best management practices performed by the MS4 program to meet the measureable goals for minimum control measure 4.

- ✦ **Measurable goal.** *Annually evaluate and assess program progress toward meeting all measureable goals for the BMP's implemented as part of minimum control measure 4.*
- ✦ **Reporting and record keeping.** *Report on assessment as part of annual report.*
- ✦ **Responsible party.** *The Phase II Water Program Media Manager will be responsible for evaluation and assessment of progress.*

Minimum Control Measure 5: Post-Construction Runoff Control

The Phase II MS4 Program requirement found in 4VAC50-60-1240 Section II.B.5, states:

"5. Post-construction stormwater management in new development and redevelopment:

a. The operator shall develop, implement, and enforce procedures to address stormwater runoff to the regulated small MS4 from new development and redevelopment projects that disturb greater than or equal to one acre or equal to or greater than 2,500 square feet in all areas of the jurisdictions designated as subject to the Chesapeake Bay Preservation Area Designation and Management Regulations adopted pursuant to the Chesapeake Bay Preservation Act, including projects less than one acre that are part of a larger common plan of development or sale, that discharge into the regulated small MS4. The procedures must ensure that controls are in place that would prevent or minimize water quality and quantity impacts in accordance with this section.

b. The operator shall:

(1) Develop and implement strategies which include a combination of structural and/or nonstructural best management practices (BMPs) appropriate for the operator's community. Where determined appropriate by the operator, the operator shall encourage the use of structural and nonstructural design techniques to create a design that has the goal of maintaining or replicating predevelopment runoff characteristics and site hydrology;

(2) Use an ordinance, regulation, or other mechanism to address post-construction runoff from new development and redevelopment projects to ensure compliance with the Virginia Stormwater Management Act (§10.1-603.1 et seq. of the Code of Virginia) and attendant regulations, and to the extent allowable under state, tribal or local law. Such ordinances and other mechanisms shall be updated as necessary;

(3) Require construction site owners and operators to secure authorization to discharge stormwater from construction activities under a VSMP permit for new development and redevelopment projects that result in a land disturbance of greater than or equal to one acre or equal to or greater than 2,500 square feet in all areas of the jurisdictions designated as subject to the Chesapeake Bay Preservation Area Designation and Management Regulations adopted pursuant to the Chesapeake Bay Preservation Act. Additionally, stormwater discharges from construction activity disturbing less than one acre must secure authorization to discharge under a VSMP permit if that construction activity is part of a larger common plan of development or sale that would disturb one acre or more;

(4) Require adequate long-term operation and maintenance by the owner of structural stormwater management facilities through requiring the owner to develop a recorded inspection schedule and maintenance agreement to the extent allowable under state, tribal or local law or other legal mechanism. The operator shall additionally develop, through the maintenance agreement or other method, a mechanism for enforcement of maintenance responsibilities by the operator if they are neglected by the owner;

(5) Conduct site inspection and enforcement measures consistent with the Virginia Stormwater Management Act and attendant regulations; and

(6) Track all known permanent stormwater management facilities that discharge to the regulated small MS4 and submit the following information in accordance with Section II E 3:

(a) Type of structural stormwater management facility installed as defined in the Virginia Stormwater Management Handbook;

(b) Geographic location (HUC);

(c) Where applicable, the impaired surface water that the stormwater management facility is discharging into; and

(d) Number of acres treated.

The best management practices identified in this plan as BMP 5.1 to 5.4 will be executed to satisfy the post-construction stormwater management requirements set forth by the General Permit (VAR04).

5.1 Post-Construction Stormwater Management Instruction:

A Post-Construction Stormwater Management Instruction has been developed and will be maintained and enforced to require adherence to the Virginia Stormwater Management Law and Regulations for development and re-development projects of 1 acre or greater in size.

- ✚ **Measurable goal.** *In permit years 1 through 5, maintain and enforce the post-construction stormwater management instruction.*
- ✚ **Reporting and record keeping.** *Retain a copy of the instruction along with any revision dates.*
- ✚ **Responsible party.** *The Phase II Water Program Media Manager will be responsible for updating the Post-Construction Stormwater Management Instruction as necessary.*

5.2 Stormwater Management BMP Tracking:

Develop and maintain an inventory of all permanent post-construction stormwater BMPs that are installed and document information required in section II.B.5.b(6) of the General Permit (VAR04).

- ✚ **Measurable goal.** *In permit years 1 through 5 develop and maintain a post-construction stormwater BMP inventory.*
- ✚ **Reporting and record keeping.** *Maintain a database to document all permanent post-construction stormwater BMPs that are installed and submit the following information with the annual reports: type of BMP installed, geographic location (Hydrologic Unit Code), waterbody the BMP is discharging into, and number of acres treated.*
- ✚ **Responsible party.** *The Phase II Water Program Manager will be responsible for maintaining the post-construction BMP tracking program.*

5.3 Stormwater BMP Inspection Program:

Implement an inspection procedure for permanent post-construction stormwater BMPs. Program will monitor for BMP deficiencies and maintenance concerns, and will provide inspection findings to the appropriate department responsible for BMP corrective actions.

- ✦ **Measurable goal.** *In permit year 1, develop the BMP inspection program. In Years 2 through 5, update program procedures as needed and inspect all known post construction BMPs during the permit cycle.*
- ✦ **Reporting and record keeping.** *Record the date of inspection for each BMP and retain inspection reports for BMP inspections performed which deficiencies are identified.*
- ✦ **Responsible party.** *The Phase II Water Program Manager will be responsible for developing and overseeing the BMP inspection and maintenance program.*

5.4 Evaluation and Assessment:

Conduct an annual assessment of the best management practices performed by the MS4 program to meet the measureable goals for minimum control measure 5.

- ✦ **Measurable goal.** *Annually evaluate and assess program progress toward meeting all measureable goals for the BMP's implemented as part of minimum control measure 5.*
- ✦ **Reporting and record keeping.** *Report on assessment as part of annual reports.*
- ✦ **Responsible party.** *The Phase II Water Program Media Manager will be responsible for evaluation and assessment of progress.*

Minimum Control Measure 6: Good Housekeeping

The Phase II MS4 Program requirement found in 4VAC50-60-1240 Section II.B.6, states:

“6. Pollution prevention/good housekeeping for municipal operations: Develop and implement an operation and maintenance program consistent with the MS4 Program Plan that includes a training component and has the ultimate goal of preventing or reducing pollutant runoff from municipal operations. Using training materials including those available from EPA, state, tribe, or other organizations, the program shall include employee training to prevent and reduce stormwater pollution from activities such as park and open space maintenance, fleet and building maintenance, new construction and land disturbances, and MS4 maintenance. The operator is encouraged to review the Environmental Protection Agency’s (EPA’s) National Menu of Stormwater Best Management Practices for ideas and strategies to incorporate into its program. The menu can be accessed at <http://cfpub.epa.gov/npdes/stormwater/menuofbmps/index.cfm>.

The operator shall identify, implement, evaluate and modify, as necessary, BMPs to meet the following pollution prevention/good housekeeping for municipal operations measurable goals:

- a. Operation and maintenance programs including activities, schedules, and inspection procedures shall include provisions and controls to reduce pollutant discharges into the regulated small MS4 and receiving surface waters;*
- b. Illicit discharges shall be eliminated from storage yards, fleet or maintenance shops, outdoor storage areas, rest areas, waste transfer stations, and other municipal facilities;*
- c. Waste materials shall be disposed of properly;*
- d. Materials that are soluble or erodible shall be protected from exposure to precipitation;*
- e. Materials, including but not limited to fertilizers and pesticides, that have the potential to pollute receiving surface waters shall be applied according to manufacturer’s recommendations; and*
- f. For state agencies with lands where nutrients are applied, nutrient management plans shall be developed and implemented in accordance with the requirements of §10.1-104.4 of the Code of Virginia.*

The best management practices identified in this plan as BMP 6.1 to 6.3 will be executed to satisfy the Pollution Prevention/Good-Housekeeping requirements set forth by the General Permit (VAR04).

6.1 Pollution Prevention & Good Housekeeping Guidance:

Pollution prevention (P2) and good housekeeping best management practices will be incorporated into installation activities with the goal of preventing and reducing pollution. P2 plans, activity SOP’s, instructions, and Navy policy documents will be enforced and updated as needed to ensure implementation of proper P2 practices.

- ✚ Measurable goal.** *In permit years 1 through 5, continually develop, distribute, and update as needed pollution prevention guidance documents.*
- ✚ Reporting and record keeping.** *Retain copies of all P2 documents that are developed and distributed.*
- ✚ Responsible party.** *The P2 Program Media Manager is responsible for the P2 program activities. The Installation Water Program Media Managers, Phase II*

Water Program Media Manager, and Installation Environmental Protection Specialists are responsible for providing base personnel and tenants with guidance documents regarding stormwater pollution prevention practices.

6.2 Pollution Prevention and Good Housekeeping Training:

Include pollution prevention and good housekeeping as a topic in Environmental Awareness Trainings provided to base personnel and tenants.

- ✚ **Measurable goal.** In permit years 1 through 5, include stormwater pollution prevention material in environmental awareness training.*
- ✚ **Reporting and record keeping.** Track Environmental Awareness Trainings provided to base personnel and record the number of personnel trained.*
- ✚ **Responsible party.** The Installation Water Program Media Managers, Phase II Water Program Media Manager, and Installation Environmental Protection Specialists are responsible for providing base personnel and tenants with trainings regarding stormwater pollution prevention practices.*

6.3 Evaluation and Assessment:

Conduct an annual assessment of the best management practices performed by the MS4 program to meet the measurable goals for minimum control measure 6.

- ✚ **Measurable goal.** Annually evaluate and assess program progress toward meeting all measurable goals for the BMP's implemented as part of minimum control measure 6.*
- ✚ **Reporting and record keeping.** Report on assessment as part of annual reports.*
- ✚ **Responsible party.** The Phase II Water Program Media Manager will be responsible for evaluation and assessment of progress.*

Minimum Control Measure 7: TMDL Waste Load Allocation (WLA)

The special conditions found within the Phase II MS4 Program requirement at 4VAC50-60-1240 Section I states:

“B. Special conditions. A total maximum daily load (TMDL) approved by the State Water Control Board may include a wasteload allocation to the regulated small MS4 that identifies the pollutant for which stormwater controls are necessary for the surface waters to meet water quality standards. The pollutant identified in a wasteload allocation as of the effective date of this permit must be addressed through the measurable goals of the MS4 Program Plan. A wasteload allocation does not establish that the operator of a regulated small MS4 is in or out of compliance with the conditions of this permit.

- 1. The operator shall update its MS4 Program Plan to include measurable goals, schedules, and strategies to ensure MS4 Program consistency with the assumptions of the TMDL WLA within 18 months of permit coverage; or, within 18 months of the effective date of any reopening of this permit to include wasteloads allocated to the regulated small MS4 after issuance of permit coverage.*
- 2. The measurable goals, schedules, strategies, and other best management practices (BMPs), required in an updated MS4 Program Plan to assure MS4 Program consistency with an approved TMDL for the pollutant identified in a WLA are, at a minimum:*
 - a. The operator shall develop a list of its current ordinances and legal authorities, BMPs, policies, plans, procedures and contracts implemented as part of the MS4 Program that are applicable to reducing the pollutant identified in a WLA.*
 - b. The operator shall evaluate existing ordinances and legal authorities, BMPs, policies, plans, procedures and contracts of the existing MS4 Program to determine the effectiveness of the MS4 Program in addressing reductions of the pollutant identified in the WLA. The evaluation shall identify any weakness or limitation in the MS4 Program to reduce the pollutant identified in the WLA in a manner consistent with the TMDL.*
 - c. The operator shall develop a schedule to implement procedures and strategies that address the MS4 Program weaknesses such as timetables to update existing ordinances and legal authorities within two years, BMPs, policies, plans, procedures and contracts to ensure consistency with the assumptions of the TMDL WLA. When possible, source elimination shall be prioritized over load reduction.*
 - d. The operator shall implement the schedule established in Section I B 2 c.*
- 3. The operator shall integrate an awareness campaign into its existing public education and outreach program that promotes methods to eliminate and reduce discharges of the pollutant identified in the WLA. This may include additional employee training regarding the sources and methods to eliminate and minimize the discharge of the pollutant identified in the WLA.*
- 4. The operator is encouraged to participate as a stakeholder in the development of any implementation plans developed to address the TMDL and shall incorporate applicable best management practices identified in the TMDL implementation plan in their MS4 Program Plan. The operator may choose to implement BMPs of equivalent design and efficiency instead of those identified in the TMDL implementation plan, provided that the rationale for any substituted BMP is provided and the substituted BMP is consistent with the TMDL and the WLA.*
- 5. The operator shall develop and implement outfall reconnaissance procedures to identify potential sources of the pollutant identified in the WLA from anthropogenic activities. The operator shall conduct reconnaissance in accordance with the following:*
 - a. Should the operator have 250 or more total outfalls discharging to the surface water identified in the WLA, the operator shall perform reconnaissance on a minimum of 250 outfalls for each WLA assigned at least once during the five-year permit period and shall perform reconnaissance on a minimum of 35 outfalls per year.*

b. Should the operator have less than 250 total outfalls discharging to an identified surface water, the operator shall perform reconnaissance on all outfalls during the five-year permit period and shall annually conduct reconnaissance on a minimum of 15% of its known MS4 outfalls discharging to the surface water for which the WLA has been assigned.

The department recommends that the operator review the publication entitled "Illicit Discharge Detection and Elimination: A Guidance Manual for Program Development and Technical Assessments," EPA cooperative agreement number X-82907801-0, for guidance in implementing its outfall reconnaissance procedures. The operator shall implement procedures designed to reduce the discharge of the pollutant in a manner consistent with the TMDL. Physically interconnected MS4s may coordinate outfall reconnaissance to meet the requirements of this subdivision.

6. The operator shall evaluate all properties owned or operated by the MS4 operator that are not covered under a separate VPDES permit for potential sources of the pollutant identified in the WLA. Within three years of the required date for updating the MS4 Program Plan, the operator shall conduct a site review and characterize the runoff for those properties where it determines that the pollutant identified in the WLA is currently stored, or has been transferred, transported or historically disposed of in a manner that would expose it to precipitation in accordance with the following schedule:

a. As a part of the site review, the operator shall collect a total of two samples from a representative outfall for each identified municipal property. One sample shall be taken during each of the following six-month periods: October through March, and April through September.

b. All collected samples shall be grab samples and collected within the first 30 minutes of a runoff producing event that is greater than 0.1 inches in magnitude and that occurs at least 72 hours from the previous measurable (greater than 0.1 inch rainfall) storm event. The required 72-hour storm event interval is waived where the preceding measurable storm event did not result in a measurable discharge from the property. The required 72-hour storm event interval may also be waived where the operator documents that less than a 72-hour interval is representative for local storm events during the season when sampling is being conducted. Analytical methods shall be conducted according to procedures approved under 40 CFR Part 136 or alternative methods approved by the Environmental Protection Agency (EPA). Where an approved 40 CFR Part 136 method does not exist, the operator must use a method consistent with the TMDL.

c. For properties where there is found to be a discharge of the pollutant identified in the WLA, the operator shall develop and implement a schedule to minimize the discharge of the pollutant identified in the WLA in a manner consistent with the approved TMDL.

7. The operator shall conduct an annual characterization that estimates the volume of stormwater discharged, in cubic feet, and the quantity of pollutant identified in the WLA, in a unit consistent with the WLA, discharged by the regulated small MS4.

8. As part of the annual evaluation, the operator shall update the MS4 Program Plan to include any new information regarding the TMDL in order to ensure consistency with the TMDL.

9. Along with reporting requirements in Section II E, the operator shall include the following with each annual report:

a. Copies of any updates to the MS4 Program Plan completed during the reporting cycle and any new information regarding the TMDL in order to evaluate its ability to assure the consistency of its discharge with the assumptions of the TMDL WLA.

b. The estimate of the volume of stormwater discharged, in cubic feet, and the quantity of pollutant identified in the WLA, in a unit consistent with the WLA discharged by the regulated small MS4 for each WLA.

As of the effective date of this permit, Naval Air Station Oceana is the only installation regulated under the Phase II MS4 General Permit (VAR04) that discharges to a surface water with a TMDL WLA approved by the State Water Control Board. The best management practices identified in this stormwater program plan will be implemented at NAS Oceana to satisfy the special conditions set forth in section I of the General Permit (VAR04).

7.1 Program Components for TMDL WLA:

Develop and maintain a list of current ordinances and legal authorities, BMP's, policies, plans, procedures, and contracts implemented as part of the MS4 program that are applicable to reducing bacteria from lands draining to waterbody segments with a bacteria TMDL for which the MS4 received a WLA.

- ✚ **Measurable goal.** *Develop list by end of permit year 2. In permit year 3 through 5, update list annually.*
- ✚ **Reporting and record keeping.** *Retain a current list of TMDL program plan components.*
- ✚ **Responsible party.** *The Phase II Water Program Media Manager is responsible for maintaining the list of program components relevant to the assigned TMDL WLA.*

7.2 Public Education and Outreach for TMDL WLA:

In conjunction with the practices detailed in MCM 1, include information regarding bacteria source reduction efforts with public education and outreach materials.

- ✚ **Measurable goal.** *In years 3 through 5, include as part of the practices implemented in MCM 1 of this plan.*
- ✚ **Reporting and record keeping.** *As identified for each BMP in MCM 1, record and retain information about the public education and outreach practices implemented.*
- ✚ **Responsible party.** *See best management practices identified in MCM 1.*

7.3 Outfall Reconnaissance for TMDL WLA:

Develop and implement an outfall reconnaissance plan in accordance with procedures as outlined in 4VAC50-60-1240 Section 1.B.5

- ✚ **Measurable goal.** *In years 3 through 5, conduct annual reconnaissance on a minimum of 15% of the known outfalls from the MS4 area that drain to the surface water for which a WLA has been assigned.*
- ✚ **Reporting and record keeping.** *Record the number of outfalls monitored each year.*
- ✚ **Responsible party.** *The Phase II Water Program Media Manager is responsible for the outfall reconnaissance program.*

7.4 Property Evaluations for TMDL WLA:

Evaluate properties owned or operated by the MS4 for sources of the pollutant identified in the WLA. Property evaluation should include the identification of land use

categories, mapping of the MS4 owned properties, and identification of properties with the potential to generate bacteria pollution.

- ✚ **Measurable goal.** *In permit years 3 through 5, conduct property evaluations as required per the special conditions in section I of the General Permit.*
- ✚ **Reporting and record keeping.** *Retain copies of the any land use mapping, stormwater mapping, or reports generate for completed property evaluations.*
- ✚ **Responsible party.** *The Phase II Water Program Media Manager is responsible for compliance with this BMP.*

7.5 Evaluation and Assessment:

Conduct an annual assessment of the best management practices performed by the MS4 program to meet the measureable goals for minimum control measure 7.

- ✚ **Measurable goal.** *Annually evaluate and assess program progress toward meeting all measureable goals for the BMP's implemented as part of minimum control measure 7.*
- ✚ **Reporting and record keeping.** *Report on assessment as part of annual reports.*
- ✚ **Responsible party.** *The Phase II Water Program Media Manager will be responsible for evaluation and assessment of progress.*

REGIONAL PHASE II STORMWATER PROGRAM

ANNUAL REPORTING SPREADSHEET

MCM 1: Public Outreach and Education

| BMP | BMP Description | Measurable Goals | Metric | Responsible Party | Timeline | Associated Documents | Annual Reporting |
|------------|--|---|---|---|-----------------|-----------------------------|-------------------------|
| 1.1 | Newspaper Articles and Ads | On a semi-annual basis, in permit years 1 through 5 include at least one article/ad in base publications addressing stormwater pollution prevention. | Retain a copy of all articles/ads published and record the dates of publication. | Phase II Water Program Media Manager | Semi-Annually | | |
| 1.2 | Environmental Awareness Trainings for Target Audiences | In permit year 1, evaluate and update stormwater pollution prevention materials utilized as part of the Environmental Awareness Training Program. In permit years 2 through 5, include updated stormwater pollution prevention information in the Environmental Awareness Training given to targeted audiences. | Track the number of trainings conducted and the number of people trained | Phase II Water Program Media Manager and Installation Water Program Media Manager | Annually | | |
| 1.3 | Stormwater Management Training through ECATTS | In permit year 1 develop stormwater training modules used in the ECATTS training application. In permit years 2 through 5 annually review and update as needed the ECATTS stormwater training modules. | Record and report the number of people trained on each stormwater training module presented through ECATTS. | Phase II Water Program Media Manager and Installation Water Program Media Manager | Annually | | |
| 1.4 | Stormwater Educational Brochures | In permit years 1 through 5, on a semi-annual basis distribute stormwater educational brochures to targeted areas | Retain a copy of each brochure distributed and record the date, location, and number of brochures distributed | Phase II Water Program Media Manager | Semi-Annually | | |

MCM 1: Public Outreach and Education

| BMP | BMP Description | Measurable Goals | Metric | Responsible Party | Timeline | Associated Documents | Annual Reporting |
|-----|----------------------------|--|--|---|----------|----------------------|------------------|
| 1.5 | Industrial Activity Poster | In permit year 1 update list of activities that should be targeted for poster distribution. In permit years 2 through 5, distribute posters to targeted activities | Retain a copy of the poster and record the number of posters distributed | Phase II Water Program Media Manager and Installation Water Program Media Manager | Annually | | |
| 1.6 | Evaluation and Assessment | Evaluate and assess progress towards meeting measurable goals | In accordance with Section I E of 4VAC50-60-1200 | Phase II Water Program Manager | Annually | | |

MCM2: Public Involvement and Participation

| BMP | BMP Description | Measurable Goals | Metric | Responsible Party | Timeline | Associated Documents | PY3 - Annual Reporting |
|-----|---|--|---|--------------------------------------|--------------|----------------------|------------------------|
| 2.1 | Make the stormwater program plan and other stormwater program information available to public | In permit year 1, post the SWMP on the regional environmental website and make good-faith efforts to notify the public of its availability for review. In permit years 2 through 5, update as needed the SWMP posted on the environmental website and track all public comments received | Retain a log of all requests for the review of the SWMP and Annual Reports, and track all comments and responses received from public reviews | Phase II Water Program Media Manager | Continuously | | |
| 2.2 | Storm Drain Marking Program | In permit year 1, evaluate and target areas for storm drain marking efforts. In permit years 1 through 5, conduct annual storm drain marking efforts | Record location, date, number of storm drains marked, and if applicable the number of volunteer participants for each storm drain marking event | Phase II Water Program Media Manager | Annually | | |
| 2.3 | Annual Clean the Bay Day | In permit years 1 through 5, inform and involve base groups in the annual Clean the Bay Day efforts | Record the number of volunteers utilized and an estimate of the volume of litter collected | Phase II Water Program Media Manager | Annually | | |
| 2.4 | Evaluation and Assessment | Evaluate and assess progress towards meeting measurable goals | In accordance with Section I E of 4VAC50-60-1200 | Phase II Water Program Manager | Annually | | |

MCM3: Illicit Discharge Detection and Elimination

| BMP | BMP Description | Measurable Goals | Metric | Responsible Party | Timeline | Associated Documents | PY 3 - Annual Reporting |
|------------|---|---|--|---|-----------------|-----------------------------|--------------------------------|
| 3.1 | Conduct Illicit Discharge Surveys | In permit year 1, prioritize areas for illicit discharge surveys. During permit years 2 through 5, conduct surveys and coordinate the removal of any identified illicit discharges or connections | Record the dates of performed IDDE surveys and retain illicit discharge survey documentation | Installation Water Program Media Managers; Phase II Water Program Media Manager | Permit Cycle | | |
| 3.2 | Storm Sewer System Mapping Updates | In permit year 1 identify installations that do not have updated storm sewer mapping. In permit years 2 through 5, plan for and coordinate storm sewer mapping and updates | Record revision dates on storm system mapping for each regulated installation | Installation Water Program Media Managers; Phase II Water Program Media Manager | Permit Cycle | | |
| 3.3 | Public Education for Illicit Discharges | In permit years 1 through 5, include information addressing illicit discharges in the public education BMPs identified in MCM 1 | Retain copies of materials published and dates of publication | Phase II Water Program Media Manager | Annually | | |
| 3.4 | Spill Control Tracking Database | In permit year 1 through 5 continually maintain a current spill incident tracking database | Retain the spill incident tracking database for annual reporting | Spill Program Media Manager and the Phase II Water Program Media Manager | Annually | | |

MCM3: Illicit Discharge Detection and Elimination

| BMP | BMP Description | Measurable Goals | Metric | Responsible Party | Timeline | Associated Documents | PY 3 - Annual Reporting |
|-----|---------------------------|---|--|--------------------------------|----------|----------------------|-------------------------|
| 3.5 | Evaluation and Assessment | Evaluate and assess progress towards meeting measurable goals | In accordance with Section I E of 4VAC50-60-1200 | Phase II Water Program Manager | Annually | | |

MCM4: Construction Site Storm Water Runoff Control

| BMP | BMP Description | Measurable Goals | Metric | Responsible Party | Timeline | Associated Documents | PY 3 - Annual Reporting |
|------------|--|--|--|--------------------------------|-----------------|-----------------------------|--------------------------------|
| 4.1 | Erosion and Sediment Control Instruction | In permit years 1 through 5 maintain and enforce the NAVFAC-ML E&S Control Instruction | Retain a copy of the instruction along with any revision dates | Phase II Water Program Manager | Annually | | |
| 4.2 | Erosion and Sediment Control Plan Review | In permit years 1 through 5, construction activities disturbing over 10,000 square feet must have an E&S Control plan developed and reviewed prior to project commencement | Maintain a log to track plan reviews that are performed by NAFVAC-ML EV. | Phase II Water Program Manager | Continuously | | |
| 4.3 | VSMP Construction Permit Instruction | In permit years 1 through 5 maintain and enforce the COMNAVREG MIDLANT VSMP Construction Permit Instruction | Retain a copy of the instruction along with any revision dates | Phase II Water Program Manager | Annually | | |

MCM4: Construction Site Storm Water Runoff Control

| BMP | BMP Description | Measurable Goals | Metric | Responsible Party | Timeline | Associated Documents | PY 3 - Annual Reporting |
|------------|---|---|--|--------------------------------|-----------------|-----------------------------|--------------------------------|
| 4.4 | Construction Activity SWMP and SWPPP Review | In permit years 1 through 5, construction activities disturbing equal to or greater than 1 acre must develop a SWMP and SWPPP, and these plans must be reviewed to ensure compliance with applicable regulations | Maintain a log to track plan reviews that are performed by NAFVAC-ML EV. | Phase II Water Program Manager | Continuously | | |
| 4.5 | Construction Project Inspection Program | In year 1 through 5 perform oversight inspections applicable to construction activities to ensure compliance with Virginia E&S and Stormwater Management regulations | Record the number of project inspections performed, date which they are performed, and retain completed project inspection reports | Phase II Water Program Manager | Continuously | | |
| 4.6 | Public Comment Tracking | In permit years 1 through 5, maintain procedure for consideration of public comment and track all public comments received regarding the construction site runoff control program | Record the number of public comments received and any actions taken to address comments | Phase II Water Program Manager | Annually | | |
| 4.7 | Construction Project Tracking | In permit years 1 through 5, implement and maintain a program to annually track the total number of regulated construction activities being performed and the total disturbed acreage associated with each activity | Report the total number of regulated construction activities performed and the total disturbed acreage | Phase II Water Program Manager | Annually | | |

MCM4: Construction Site Storm Water Runoff Control

| BMP | BMP Description | Measurable Goals | Metric | Responsible Party | Timeline | Associated Documents | PY 3 - Annual Reporting |
|-----|---------------------------|---|--|--------------------------------|----------|----------------------|-------------------------|
| 4.8 | Evaluation and Assessment | Evaluate and assess progress towards meeting measurable goals | In accordance with Section I E of 4VAC50-60-1200 | Phase II Water Program Manager | Annually | | |

MCM5: Post Construction Storm Water Management in New Development and Redevelopment

| BMP | BMP Description | Measurable Goals | Metric | Responsible Party | Timeline | Associated Documents | PY 3 - Annual Reporting |
|------------|---|--|--|--------------------------------------|-----------------|-----------------------------|--------------------------------|
| 5.1 | Post-Construction Stormwater Management Instruction | In permit years 1 through 5, maintain and enforce the post-construction stormwater management instruction | Retain a copy of the instruction along with any revision dates | Phase II Water Program Media Manager | Annually | | |
| 5.2 | Stormwater Management BMP Tracking | In permit years 1 through 5 develop and maintain a post-construction stormwater BMP inventory | Maintain a database to document all permanent post-construction stormwater BMPs that are installed and submit with Annual Report | Phase II Water Program Media Manager | Annually | | |
| 5.3 | Stormwater BMP Inspection Program | In permit year 1, develop the BMP inspection program. In Years 2 through 5, update program procedures as needed and inspect all known post construction BMPs during the permit cycle | Record the date of inspection for each BMP and retain inspection reports for BMP inspections performed which deficiencies are identified | Phase II Water Program Media Manager | Permit Cycle | | |
| 5.4 | Evaluation and Assessment | Evaluate and assess progress towards meeting measurable goals | In accordance with Section I E of 4VAC50-60-1200 | Phase II Water Program Manager | Annually | | |

MCM6: Pollution Prevention and Good Housekeeping

| BMP | BMP Description | Measurable Goals | Metric | Responsible Party | Timeline | Associated Documents | PY 3 - Annual Reporting |
|-----|---|--|--|---|----------|----------------------|-------------------------|
| 6.1 | Pollution Prevention & Good Housekeeping Guidance | In permit years 1 through 5, continually develop, distribute, and update as needed pollution prevention guidance documents | Retain copies of all P2 documents that are developed and distributed | P2 Program Media Manager, Installation Water Program Media Managers, and Phase II Water Program Media Manager | Annually | | |
| 6.2 | Pollution Prevention and Good Housekeeping Training | In permit years 1 through 5, include stormwater pollution prevention material in environmental awareness training | Track the number of trainings conducted and the number of people trained | Phase II Water Program Manager, Installation Water Program Media Manager, and Installation EPS staff | Annually | | |
| 6.3 | Evaluation and Assessment | Evaluate and assess progress towards meeting measurable goals | In accordance with Section I.E of 4VAC50-60-1200 | Public Works Engineering Stormwater | Annually | | |

MCM7: TMDL Special Conditions

| BMP | BMP Description | Measurable Goals | Metric | Responsible Party | Timeline | Associated Documents | PY 3 - Annual Reporting |
|------------|--|---|--|--------------------------------------|-----------------|-----------------------------|--------------------------------|
| 7.1 | TMDL Program Plan Components | By the end of PY2 develop a list of current ordinances and legal authorities, BMP's, policies, plans, procedures, and contracts implemented as part of the MS4 program that are applicable to reducing bacteria from lands draining to waterbody segments with a bacteria TMDL for which the MS4 recieved a WLA | Retain a current list of TMDL program plan components | Phase II Water Program Media Manager | Annually | | |
| 7.2 | Public Education and Outreach for TMDL WLA | In years 3 through 5, include TMDL educational information as part of the practices implemented in MCM 1 of this plan | As identified for each BMP in MCM 1, record and retain information about the public education and outreach practices implemented | Phase II Water Program Media Manager | Annually | | |
| 7.3 | Outfall Reconnaissance for TMDL WLA | In years 3 through 5, conduct annual reconnaissance on a minimum of 15% of the known outfalls from the MS4 area that drain to the surface water for which a WLA has been assigned | Record the number of outfalls monitored each year | Phase II Water Program Media Manager | Annually | | |
| 7.4 | Property Evaluations for TMDL WLA | In permit years 3 through 5, conduct property evaluations as required per the special conditions in section I of the General Permit | Retain copies of the any land use mapping, stormwater mapping, or reports generate for completed property evaluations | Phase II Water Program Media Manager | Annually | | |

MCM7: TMDL Special Conditions

| BMP | BMP Description | Measurable Goals | Metric | Responsible Party | Timeline | Associated Documents | PY 3 - Annual Reporting |
|-----|---------------------------|---|--|--------------------------------------|----------|----------------------|-------------------------|
| 7.5 | Evaluation and Assessment | Evaluate and assess progress towards meeting measurable goals | In accordance with Section I E of 4VAC50-60-1200 | Phase II Water Program Media Manager | Annually | | |